

ACRIDINES

- Fluorescent probes of chromosomal DNA structure: three classes of acridines.
Weisblum, B. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 441.

ADENOSINE MONOPHOSPHATE

- MSH, cyclic AMP, and melanocyte differentiation.
Chen, Shan-te, Wahn, H., Turner, W.A., Taylor, J.D. & Tchen, T.T. (1974) *Recent Progr. Horm. Res.* 30, 319.
- The role of cyclic AMP in the modulation of cardiac contractility.
Entman, M.L. (1974) *Advan. Cyclic Nucl. Res.* 4, 163.
- Cyclic adenosine monophosphate and clinical medicine. Part II: Carbohydrate and lipid metabolism. [Invited review]
Keirns, J.J., Freeman, J. & Bitensky, M.W. (1974) *Amer. J. Med. Sci.* 268, 62.
- Analogs of cyclic AMP and cyclic GMP: general methods of synthesis and the relationship of structure to enzymic activity. [Minireview]
Meyer, jr, R.B. & Miller, J.P. (1974) *Life Sci.* 14, 1019-1040.
- Cyclic AMP and the immune response.
Parker, C.W., Sullivan, T.J. & Wedner, H.J. (1974) *Advan. Cyclic Nucl. Res.* 4, 1.
- Cyclic AMP and the transformation of fibroblasts.
Pastan, I. & Johnson, G.S. (1974) *Advan. Cancer Res.* 19, 303.
- Cyclic AMP and cyclic GMP.
Posternak, T. (1974) *Annu. Rev. Pharmacol.* 14, 23.
- Cyclic AMP in prokaryotes.
Rickenberg, H.V. (1974) *Annu. Rev. Microbiol.* 28, 353.
- The role of cyclic AMP in slime mold development. [Minireview]
Robertson, A. & Grutsch, J. (1974) *Life Sci.* 15, 1031-1043.
- The role of cyclic AMP in the regulation of steroid biosynthesis in testis tissue.
Rommerts, F.F.G., Cooke, B.A. & van der Molen, H.J. (1974) *J. Steroid Biochem.* 5, 279.
- Cyclic AMP and regulation.
Smith, C.G. & others (1974) *Advan. Enzyme Regul.* 12, 187-216.
- Regulation of protein synthesis by cyclic AMP.
Wicks, W.D. (1974) *Advan. Cyclic Nucl. Res.* 4, 335.

AGEING

- Anti-aging drugs.
Bindra, J.S. (1974) *Annu. Rep. Med. Chem.* 9, 214.
- Immune function and dysfunction in relation to aging. [Minireview]
Cheney, K.E. & Walford, R.L. (1974) *Life Sci.* 14, 2075-2084.

- Ageing in differentiated cells. [Critical review]
Franks, L.M. (1974) *Gerontologia-Basel*, 20, 51.
- Laboratory animals in aging studies.
Getty, R. & Ellenport, C.R. (1974) *Methods Anim. Exp.* 5, 41.
- Mécanismes du vieillissement moléculaire et cellulaire. (Molecular and cellular mechanisms of aging). Colloque, Paris, décembre 1973.
Hayflick, L. & others (1973) 259pp., INSERM.
- Programmed cell death. [Minireview]
Lockshin, R.A. & Beaulaton, J. (1974) *Life Sci.* 15, 1549-1566.
- A bibliography of doctoral dissertations on aging from American institutions of higher learning, 1971-1973.
Mueller, J.E., Moore, J.L. & Birren, J.E. (1974) *J. Gerontol.* 29, 459.
- Theoretical aspects of aging. Proceedings of a symposium, Miami, Florida, February 1974.
Rockstein, M., Sussman, M.L. & Chesky, J., eds (1974) 192pp., Academic Press.
- The ageing, growth and death of cells.
Sheldrake, A.R. (1974) *Nature*, 250, 381-385.
- 4th European symposium on basic research in gerontology, Varberg-Sweden, September 1973.
Terry, R.D. & others (1974) *Scand. J. Clin. Lab. Invest.* 34, Suppl. 141.
- Survival and aging of spermatozoa: a review.
Vander Vliet, W.L. & Hafez, E.S.E. (1974) *Amer. J. Obstet. Gynecol.* 118, 1006.
- Immunopathology of aging. [Symposium]
Yunis, E.J., chairman (1974) *Fed. Proc.* 33, 2017.

ALGAE

- The inorganic nutrition of algae, from an ecological viewpoint. (427 references).
Healey, F.P. (Stewart, W.P.D., referee) (1973) *CRC Crit. Rev. Microbiol.* 3, 69.
- The chemical composition of algal cell walls. (210 references).
Siegel, S.M. & Siegel, B.Z. (Ponnampertuma, C., referee) (1973) *CRC Crit. Rev. Microbiol.* 3, 1.
- Algal physiology and biochemistry. [Botanical monographs vol. 10]
Stewart, W.D.P., ed. (1974) 989pp., Blackwell Scientific.

ALKYLATING AGENTS

- Monofunctional alkylating agents and apurinic sites in DNA.

Verly, W.G. (1974) *Biochem. Pharmacol.* 23, 3.

AMINES

Nitrosamines.

Barnes, J.M. (1974) *Essays Toxicol.* 5, 1.

The natural history of amine oxidases.

Blaschko, H. (1974) *Rev.Physiol.Biochem.Pharmacol.* 70, 83-148.

Modification of brain serotonin by the diet.

Fernstrom, J.D. (1974) *Annu.Rev.Med.* 25, 1.

Monoamine metabolites in lumbar CSF: the question of their origin in relation to clinical studies.

Garelis, E., Young, S.N., Lal, S. & Sourkes, T.L. (1974) *Brain Res.* 79, 1.

100th anniversary - 1874-1974. Amines and affective states.

Gershon, S. & Shopsin, B., guest eds (1974) *J.Nerv. Ment.Dis.* 158, 319.

Uptake mechanisms for neurotransmitter amines.

[Commentary]

Iversen, L.L. (1974) *Biochem.Pharmacol.* 23, 1927-1935.

Carcinogenesis by aromatic amines.

Kriek, E. (1974) *Biochim.Biophys.Acta*, 355, 177.

The biological effect of polyamines on heart RNA and histone metabolism.

Moruzzi, G., Caldarera, C.M. & Casti, A. (1974) *Mol.Cell.Biochem.* 3, 153.

Another look at the monoamine oxidases and the monoamine oxidase inhibitor drugs. [Minireview]

Neff, N.H. & Yang, H.-Y. (1974) *Life Sci.* 14, 2061-2074.

Role of energy metabolism in histamine release. A study on isolated rat mast cells.

Peterson, C. (1974) *Acta Physiol.Scand.*, Suppl.No. 413, 34pp.

The role of calcium in the central effects of biogenic amines. [Minireview]

Phillis, J.W. (1974) *Life Sci.* 14, 1189-1201.

Molecular organization of amine storage organelles of blood platelets and adrenal medulla.

Pletscher, A., Da Prada, M., Berneis, K.H., Steffen, H., Lütold, B. & Weder, H.G. (1974) *Advan.Cytopharmacol.* 2, 257.

Histamine and microcirculation. [Minireview]

Schayer, R.W. (1974) *Life Sci.* 15, 391-401.

Biogenic amines and affective disorders.

Schildkraut, J.J. (1974) *Annu.Rev.Med.* 25, 333.

Neuropsychopharmacology of monoamines and their regulatory enzymes.

Usdin, E., ed. (1974) 462pp., Raven Press.

The molecular basis for the storage and release of histamine in rat mast cell granules. [Minireview]

Uvnäs, B. (1974) *Life Sci.* 14, 2355-2366.

Neurochemical correlates of synaptically active amino acids. [Minireview]

Bennett, jr, J.P., Mulder, A.H. & Snyder, S.H. (1974) *Life Sci.* 15, 1045-1056.

Energization of amino acid transport, studied for the Ehrlich ascites tumor cell.

Christensen, H.N., de Cespedes, C., Handlogten, M.E. & Ronquist, R. (1973) *Biochim.Biophys.Acta*, 300, 487.

The use of amino acid precursors in nitrogen-accumulation diseases.

Close, J.H. (1974) *N.Engl.J.Med.* 290, 663-667.

Amino acid transmitters in the mammalian central nervous system.

Curtis, D.R. & Johnston, G.A.R. (1974) *Ergeb.Physiol.Biol.Chem.Exp.Pharmacol.* 69, 97.

Methionine metabolism in mammals: The biochemical basis for homocystinuria.

Finkelstein, J.D. (1974) *Metabolism*, 23, 387.

Métabolisme des acides aminés et contrôle du volume cellulaire.

Gilles, R. (1974) *Arch.Int.Physiol.Biochim.* 82, 423-589.

Genetics of amino acid transport in bacteria.

Halpern, Y.S. (1974) *Annu.Rev.Genet.* 8, 103.

Coupling and energy transfer in active amino acid transport.

Heinz, E. (1974) *Curr.Top.Membranes Transp.* 5, 137.

Biochemistry of hypoglycin.

Manchester, K.L. (1974) *FEBS Lett*, 40, Suppl., S133-S139.

Regulation of amino acid decarboxylation.

Morris, D.R. & Fillingame, R.H. (1974) *Annu.Rev.Biochem.* 43, 303-325.

Report of a conference on protein and amino acid needs for growth and development.

Munro, H.N. (1974) *Amer.J.Clin.Nutr.* 27, 55.

Is hereditary histidinaemia harmful? [Occasional survey]

Popkin, J.S., Clow, C.L., Scriver, C.R. & Grove, J. (1974) *Lancet*, I, 721-722.

Molecular orbital calculations on the conformation of amino acid residues of proteins.

Pullman, B. & Pullman, A. (1974) *Advan.Protein Chem.* 28, 347-526.

Amino acids and the brain. The seventh jubilee lecture.

Quastel, J.H. (1974) *Biochem.Soc.Trans.* 2, 765.

 γ -aminobutyric acid and nervous system function - A perspective. [Commentary]

Roberts, E. (1974) *Biochem.Pharmacol.* 23, 2637.

Interactions of histidine and other imidazole derivatives with transition metal ions in chemical and biological systems.

Sundberg, R.J. & Martin, R.B. (1974) *Chem.Rev.* 74, 471.

Enzymes of arginine biosynthesis and their repressive control.

Vogel, H.J. & Vogel, R.H. (1974) *Advan.Enzymol.* 40, 65.

AMINO ACIDS

Transamination of kynurenines.

Allegri, G. & De Antoni, A. (1974) *Acta Vitaminol. Enzymol.* 28, 223.

Studies on tryptophan metabolism in man. The effects of hormones and vitamin B₆ on urinary excretion of metabolites of the kynurenine pathway.

Wolf, H. (1974) *Scand.J.Clin.Lab.Invest.* 33, Suppl. 136.

The information content of protein amino acid sequences.

Wu, T.T., Fitch, W.M. & Margoliash, E. (1974) *Annu. Rev.Biochem.* 43, 539-566.

Daily rhythms in tyrosine transaminase and other hepatic enzymes that metabolize amino acids: mechanisms and possible consequences. [Minireview]

Wurtman, R.J. (1974) *Life Sci.* 15, 827-847.

ANAEMIA

See: BLOOD AND BLOOD PROTEINS

ANAESTHESIA

Anaesthesia and measurement. [President's address]

Conway, C.M. (1974) *Proc.Roy.Soc.Med.* 67, 1087-1091.

ANTIBIOTICS

Recent developments of antibiotic research and classification of antibiotics according to chemical structure.

Berdy, J. (1974) *Advan.Appl.Microbiol.* 18, 309.

Interaction of penicillin with the bacterial cell: penicillin-binding proteins and penicillin-sensitive enzymes.

Blumberg, P.M. & Strominger, J.L. (1974) *Bacteriol. Rev.* 38, 291-335.

Protein binding of rifampicin: a review.

Boman, G. (1973) *Scand.J.Resp.Dis., Suppl.* 84, 40.

Proceedings of the workshop on intermittent drug therapy and immunological implications in anti-tuberculous treatment with rifampicin, Oct. 1972, Stockholm.

Borman, G., Nilsson, B.S. & Saerens, E.J., eds (1973) *Scand.J.Resp.Dis., Suppl.* 84, 15.

Resistance to antibiotics and alterations in the bacterial ribosome.

Brakier-Gingras, L. (1974) *Biomedicine*, 20, 267.

Neurotoxicity during intravenous infusion of penicillin. A review.

Fossieck, Jr, B. & Parker, R.H. (1974) *J.Clin. Pharmacol.* 14, 504.

Choice among penicillins and cephalosporins. [Occasional survey]

Garrod, L.P. (1974) *Brit.Med.J.* 3, 96-100.

Fungal sterols and the mode of action of the polyene antibiotics.

Hamilton-Miller, J.M.T. (1974) *Advan.Appl.Microbiol.* 17, 109.

Actinomycin: chemistry and mechanism of action.

Hollstein, U. (1974) *Chem.Rev.* 74, 625.

Symposium: Antibiotics and neoplasia.

Horwitz, S.B., chairman (1974) *Fed.Proc.* 33, 2281.

Genetic basis, epidemiology, and future significance of antibiotic resistance in *Staphylococcus aureus*: a review.

Lacey, R.W. (1973) *J.Clin.Pathol.* 26, 899-913.

Antibiotics.

Leitner, F. & Claridge, C.A. (1974) *Annu.Rep.Med. Chem.* 7, 95.

Selman A.Waksman Conference on Actinomycins: their potential for cancer chemotherapy.

Meienhofer, J. & others (1974) *Cancer Chemother. Rep. Pt.1*, 58, 1.

Genetics of antibiotic-resistant bacteria. (Survey) [In Russian: English abstract]

Mcroz, A.F. (1974) *Antibiotiki*, 19, 652.

The role of β -lactamases in the resistance of Gram-negative bacteria to penicillin and cephalosporin derivatives.

Neu, H.C. (1973) *Infect.Dis.Rev.* 3, 133.

Gentamicin: Proceedings of a symposium, March 1974.

O'Grady, F.W., chairman (1974) *Postgrad.Med.J.* 50, Suppl., 7.

Antimetabolites from microorganisms.

Preuss, D.L. & Scannell, J.P. (1974) *Advan.Appl. Microbiol.* 17, 19.

Effect of structural modifications on the biological properties of aminoglycoside antibiotics containing 2-deoxystreptamine.

Price, K.E., Godfrey, J.C. & Kawaguchi, H. (1974) *Advan.Appl.Microbiol.* 18, 191.

Pharmacokinetics laws as applied to antibiotics.

Regamey, C. & Waldvogel, F.A. (1974) *Pathol.Biol. Semaine Hôp.* 22, 795.

Mode of action of antibiotics on microbial walls and membranes.

Salton, M.R.J. & Tomasz, A., eds (1974) *Ann.N.Y. Acad.Sci.* 235, 5.

Symposium: Microbial conversion of antibiotics.

Sebek, O.K. & others (1974) *Lloydia - J.Nat.Prod.* 37, 115.

How actinomycin binds to DNA.

Sobell, H.M. (1974) *Sci.Amer.* 231, no.2, 82-91.

Newer cephalosporins and "expanded-spectrum" penicillins.

Thrupp, L.D. (1974) *Annu.Rev.Pharmacol.* 14, 435.

Biochemical mechanism of resistance to aminoglycoside antibiotics.

Umezawa, H. (1974) *Advan.Carbohydr.Chem.* 30, 183.

Structure and synthesis of aminoglycoside antibiotics

Umezawa, H. (1974) *Advan.Carbohydr.Chem.* 30, 111.

Microbial penicillin acylases.

Vandamme, E.J. & Voets, J.P. (1974) *Advan.Appl. Microbiol.* 17, 311.

ANTIBODIES

Interactions of antibodies, complement components and various cell types in immunity against viruses and pyogenic bacteria.

Allison, A.C. (1974) *Transplant.Rev.* 19, 3.

Biomedical perspectives of agglutinins of invertebrate and plant origins.

Cohen, E., ed. (1974) *Ann.N.Y.Acad.Sci.* 234, 5.

Mitochondrial antibodies (AMA). [Progress report]

Doniach, D. & Walker, G.J. (1974) *Gut*, 15, 664.

Affinity labeling and topology of the antibody combining site.

Givol, D. (1974) *Essays Biochem.* 10, 73-103.

New data on the mechanisms of antibody synthesis at the cellular and molecular levels. [Literature survey] [In Russian: English abstract]

Klyucharev, L.A. & Vorobiev, A.A. (1974) *Zh.Mikro-biol.Epidemiol.Immunobiol.* no.8, 85.

Antibody genes and antibody molecules. [In English and Spanish, followed by 5 reprinted articles]

Loh, E. & Hood, L. (1974) *PAABS Rev.* 3, 605-656.

Natural anti-hapten antibodies.

Mäkelä, O. & Jormalain n, S. (1974) *Med.Biol.* 52, 355.

Anti-leukocyte and anti-platelet auto-antibodies.

Mayer, S., Salvador, J. & Tongio, M.-M. (1974) *Pathol.Biol.Semaine Hôp.* 22, 525.

Co-operation between antibodies and cells in immunity to a nematode parasite.

Ogilvie, B.M. & Love, R.J. (1974) *Transplant.Rev.* 19, 147.

Synthesis and utilization of water-insoluble derivatives of antigens and antibodies. [In Ukrainian: English and Russian abstracts]

Orlov, G. (1974) *Ukr.Biokhim.Zh.* 45, 745.

The role of antibody in T-cell responses.

Playfair, J.H.L. (1974) *Clin.Exp.Immunol.* 17, 1.

Radioimmunoassay and saturation analysis: production of antibodies and binding reagents.

Playfair, J.H.L., Hurn, B.A.L. & Schulster, D. (1974) *Brit.Med.Bull.* 30, 24-31.

Tumor cell surfaces: general alterations detected by agglutinins.

Rapin, A.M.C. & Burger, M.M. (1974) *Advan.Cancer Res.* 20, 1.

Cold agglutination. Antibodies and antigens.

Roelcke, D. (1974) *Clin.Immunol.Immunopathol.* 2, 266.

Antibodies as carriers of anticancer agents. [Occasional survey]

Rubens, R.D. (1974) *Lancet*, I, 498-499.

ANTIGENS

Symposium: Third conference on embryonic and fetal antigens in cancer.

Anderson, N.G. & others (1974) *Cancer Res.* 34, 2021.

Tumour-associated antigens.

Bagshawe, K.D. (1974) *Brit.Med.Bull.* 30, 68-73.

Embryonic antigen expression on experimental rat tumours.

Baldwin, R.W., Embleton, M.J., Price, M.R. & Vose, B.M. (1974) *Transplant.Rev.* 20, 77.

Carcino-embryonic antigen. [In French: English abstract]

Burtin, P. & others (1973) *Bull.Cancer*, 60, No.4, 361.

Cancer, differentiation and embryonic antigens: some central problems.

Coggin, J.H. & Anderson, N.G. (1974) *Advan.Cancer Res.* 19, 106.

β_2 -Microglobulin and HL-A antigen.

Cunningham, B.A. & others (1974) *Transplant.Rev.* 21, 3.

The association of the HL-A antigens with diseases.

Dausset, J., Degos, L. & Hors, J. (1974) *clin. Immunol.Immunopathol.* 3, 127.

Histocompatibility antigens (HL-A) and disease. A review.

Dohi, Y., Yamakido, M., Yokoyama, W.M. & Yokoyama, M.M. (1974) *Hiroshima J.Med.Sci.* 23, 1-17.

Group antigens and antigenic determinants of reverse transcriptase of type C oncornavirus.

Gomard, E. & Levy, J.-P. (1974) *Pathol.Biol.Semaine Hôp.* 22, 621.

Symposium: Mechanisms of antigen recognition.

Green, I. & others (1974) *J.Reticuloendothel.Soc.* 15, 233.

FSA-foetal sulphoglycoprotein antigen associated with gastric cancer.

Häkkinen, I.P.T. (1974) *Transplant Rev.* 20, 61.

Variation in the type of immune response to mouse histocompatibility antigens as the function of their form.

Hilgert, I. (1974) *J.Immunogenet.* 1, 153.

Localization of intracellular antigens by immunoelectron microscopy.

Kraehenbuhl, J.P. & Jamieson, J.D. (1974) *Int.Rev. Exp.Pathol.* 13, 2.

The immune response to virally determined tumor associated antigens.

Lamon, E.W. (1974) *Biochim.Biophys.Acta*, 355, 149.

Antigens of murine leukemia viruses.

Lilly, F. & Steeves, R. (1974) *Biochim.Biophys. Acta*, 355, 105.

Biochemical properties and immunochemical-genetic relationships of mouse H-2 alloantigens.

Nathenson, S.G. & Cullen, S.E. (1974) *Biochim.Biophys.Acta*, 344, 1.

Synthesis and utilization of water-insoluble derivatives of antigens and antibodies. [In Ukrainian: English and Russian abstracts]

Orlov, G. (1974) *Ukr.Biokhim.Zh.* 45, 745.

Isolation and serological evaluation of HL-A antigens solubilized from cultured human lymphoid cells.

Reisfeld, R.A., Ferrone, S. & Pellegrino, M.A. (1974) *Methods Membrane Biol.* 1, 143.

Cold agglutination. Antibodies and antigens.

Roelcke, D. (1974) *Clin.Immunol.Immunopathol.* 2, 266.

Proteins as antigens.

Sachs, D.H. (1973) *Curr.Top.Biochem.* 73.

The antigens, Vol.2.

Sela, M., ed. (1974) 568pp., Academic Press.

Genetic and biological aspects of histocompatibility antigens.

Snell, G.D. & others (1973) *Transplant.Rev.* 15, 3.

Carcinoembryonic antigen: Characterization and clinical applications.

Terry, W.D., Henkart, P.A., Coligan, J.E. & Todd, C.W. (1974) *Transplant.Rev.* 20, 100.

Viral hepatitis, the B antigen and liver cancer.

Zuckerman, A.J. (1974) *Cell*, 1, 65.

The antigenic complexity of hepatitis B virus.

Zuckerman, A.J. (1974) *Cell*, 1, 157.

BACTERIA

Interaction of penicillin with the bacterial cell: penicillin-binding proteins and penicillin-sensitive enzymes.

Blumberg, P.M. & Strominger, J.L. (1974) *Bacteriol. Rev.* 38, 291-335.

Bacterial transport.

Boos, W. (1974) *Annu.Rev.Biochem.* 43, 123-146.

Resistance to antibiotics and alterations in the bacterial ribosome.

Brakier-Gingras, L. (1974) *Biomedicine*, 20, 267.

Biochemistry of bacterial cell envelopes.

Braun, V. & Hantke, K. (1974) *Annu.Rev.Biochem.* 43, 89-121.

Structure and function of the cell envelope of Gram-negative bacteria.

Costerton, J.W., Ingram, J.M. & Cheng, K.-J. (1974) *Bacteriol.Rev.* 38, 87-110.

Studies on electron transport and energy-linked reactions using mutants of *Escherichia coli*.

Cox, G.B. & Gibson, F. (1974) *Biochim.Biophys.Acta*, 346, 1.

Assembly of bacterial cell walls.

Fiedler, F. & Glaser, L. (1973) *Biochim.Biophys. Acta*, 300, 467.

Intracellular protein degradation in mammalian and bacterial cells.

Goldberg, A.L. & Dice, J.F. (1974) *Annu.Rev.Biochem.* 43, 835-869.

Biochemical genetics of bacteria.

Gots, J.S. & Benson, C.E. (1974) *Annu.Rev.Genet.* 8, 79.

Genetics of amino acid transport in bacteria.

Halpern, Y.S. (1974) *Annu.Rev.Genet.* 8, 103.

Cation transport in bacteria: K⁺, Na⁺, and H⁺.

Harold, F.M. & Altendorf, K. (1974) *Curr.Top. Membranes Transp.* 5, 1.

Budding bacteria.

Hirsch, P. (1974) *Annu.Rev.Microbiol.* 28, 391.

Experimental bacterial ecology studied in continuous culture.

Jannasch, H.W. & Mateles, R.I. (1974) *Advan.Microbial Physiol.* 11, 165.

Chemistry and biology of mycobacteria grown in vivo.

Kanai, K. & Kondo, E. (1974) *Jap.J.Med.Sci.Biol.* 27, 135-160.

Genetic basis, epidemiology, and future significance of antibiotic resistance in *Staphylococcus aureus*: a review.

Lacey, R.W. (1973) *J.Clin.Pathol.* 26, 899-913.

Salt-dependent properties of proteins from extremely halophilic bacteria.

Lanyi, J.K. (1974) *Bacteriol.Rev.* 38, 272-290.

Genetics of antibiotic-resistant bacteria. (Survey) [In Russian: English abstract]

Moroz, A.F. (1974) *Antibiotiki*, 19, 652.

The sixth Sir Hans Krebs Lecture: The biochemical requirements for bacterial division. In pursuit of protein X.

Pardee, A.B. (1974) *Eur.J.Biochem.* 43, 209.

Bacterial photosynthesis.

Parson, W.W. (1974) *Annu.Rev.Microbiol.* 28, 41.

Toxins produced by phytopathogenic bacteria.

Patil, S.S. (1974) *Annu.Rev.Phytopathol.* 12, 259.

Review lecture: On the growth and form of a bacterial cell.

Pritchard, R.H. (1974) *Phil.Trans.Roy.Soc.London*, B, 267, 303-336.

Cyclic AMP in prokaryotes.

Rickenberg, H.V. (1974) *Annu.Rev.Microbiol.* 28, 353.

Membrane associated enzymes in bacteria.

Salton, M.R.J. (1974) *Advan.Microbial Physiol.* 11, 213.

Survival mechanisms of phytopathogenic bacteria.

Schuster, M.L. & Coyne, D.P. (1974) *Annu.Rev.Phytopathol.* 12, 199.

Lipid composition as a guide to the classification of bacteria.

Shaw, N. (1974) *Advan.Appl.Microbiol.* 17, 63.

Bacterial plasmids.

Sherratt, D.J. (1974) *Cell*, 3, 189.

Control of cell division in bacteria.

Slater, M. & Schaechter, M. (1974) *Bacteriol.Rev.* 38, 199-221.

The virulence plasmids of *Enterobacteriaceae*.

Tschäpe, H. & Rische, H. (1974) *Z.Allg.Mikrobiol.* 14, 337-350.

Recent advances in staphylococcal research.

Yotis, W.W., ed. (1974) *Ann.N.Y.Acad.Sci.* 236, 5.

BACTERIOPHAGES

Classification of bacteriophages of *Bacillus* and *Clostridium*.

Ackermann, H.-W. (1974) *Pathol.Biol.Semaine Hôp.* 22, 909.

Persisting bacteriophage infections, lysogeny, and phage conversions.

Barksdale, L. & Arden, S.B. (1974) *Annu.Rev.Microbiol.* 28, 265.

The integration and excision of bacteriophage lambda.

Gottesman, M.E. (1974) *Cell*, 1, 69.

Control elements in the DNA of bacteriophage λ .

Maniatis, T., Ptashne, M. & Maurer, R. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 857.

The making of a phage.

Weissmann, C. (1974) *FEBS Lett.* 40, Suppl., S10-S18.

BEHAVIOUR

The fifth annual Carl G.Hartman lecture. Behavioral endocrinology and the study of reproduction.

Beach, F.A. (1974) *Biol.Reprod.* 10, 2.

The neurobiology of cricket song.

Bentley, D. & Hoy, R.R. (1974) *Sci.Amer.* 231, no.2, 34-44.

Behavioral genetics.

Broadhurst, P.L., Fulker, D.W. & Wilcock, J. (1974) *Annu.Rev.Psychol.* 25, 389.

Mental retardation and behavioural change.

Clarke, A.D.B. & Clarke, A.M. (1974) *Brit.Med.Bull.* 30, 179-185.

Vulnerability of developing brain and behaviour.

Dobbing, J. & Smart, J.L. (1974) *Brit.Med.Bull.* 30, 164-168.

Pheromones as a means of genetic control of behavior.

Leonard, J.E., Ehrman, L. & Pruzan, A. (1974) *Annu.Rev.Genet.* 8, 179.

Brain function: changing ideas on the role of sensory, motor, and association cortex in behavior.

Masterton, R.B. & Berkley, M.A. (1974) *Annu.Rev.Psychol.* 25, 277.

BILE PIGMENTS

Haemoglobin degradation and bilirubin formation.

Gemsa, D. & Schmid, R. (1974) *Klin.Wochenschr.* 52, 609.

Critique of the assay and significance of bilirubin conjugation.

Heirwegh, K.P.M., Meuwissen, J.A.T.P. & Fevery, J. (1973) *Advan.Clin.Chem.* 16, 239.

BILE SALTS

Hydroxylations in biosynthesis and metabolism of bile acids.

Björkhem, I. & Danielsson, H. (1974) *Mol.Cell.Biochem.* 4, 79.

Bile acid biosynthesis: pathways and regulation. (Progress report)

Mosbach, E.H. & Salen, G. (1974) *Amer.J.Dig.Dis.* 19, 920.

Bile acid metabolism in infants and children. Progress report.

Murphy, G.M. & Signer, E. (1974) *Gut*, 15, 151.

BIOCHEMISTRY, GENERAL

The first ten years of FEBS: retrospect and prospect.

Arnstein, H.R.V. (1974) *FEBS Lett.* 40, Suppl., S160-S163.

Recollections.

Beadle, G.W. (1974) *Annu.Rev.Biochem.* 43, 1-13.

New directions in molecular biology.

Brenner, S. (1974) *Nature*, 248, 785-787.

Building the Tower of Babel.

Chargaff, E. (1974) *Nature*, 248, 776-779.

Die Entfaltung der Molekularpathologie in den letzten 50 Jahren. [Development of molecular pathology over the last 50 years]

Franconi, G. (1974) *Schweiz.Med.Wochenschr.* 104, 1469.

Lionel Sharples Penrose (1898-1972).

Harris, H. (1974) *J.Med.Genet.* 11, 1.

The development of biochemical concepts from ancient to modern times.

Leicester, H.M. (1974) 286pp., Harvard University Press.

Immunological specificity of carbohydrate structures: from Pasteur to the present day. [In English]

Morgan, W.T.J. (1974) *Bull.Inst.Pasteur*, 72, 131.

Molecular basis of biological specificity.

Pauling, L. (1974) *Nature*, 248, 769-771.

New paths in the molecular orbital approach to solution of biological molecules.

Pullman, A. & Pullman, B. (1974) *Quart.Rev.Biophys.* 7, 505.

Biochemistry.

Quastel, J.H. (1974) *Perspect.Biol.Med.* 17, 317.

Fifty years of biochemistry: A personal account.

Quastel, J.H. (1974) *Can.J.Biochem.* 52, 71.

Some comments on fifty years of biochemical work.

Roche, J. (1974) *Comp.Biochem.Physiol.* 47B, 521.

La microbiologie cent ans après Pasteur bilan et perspectives. Colloque international, mai 1973, Paris. [In French]

Sabin, A.B. & others (1974) *Bull.Inst.Pasteur*, 72, No. 1.

Papers in memory of Lionel Penrose.

Shapiro, A. & others (1974) *Brit.J.Psychiat.* 125, 517.

Significance of FEBS to world biochemistry.

Slater, E.C. (1974) *FEBS Lett.* 40, Suppl., S164-S166.

Molecular biology and metaphysics.

Stent, G.S. (1974) *Nature*, 248, 779-781.

The foundation and early years of FEBS.

Whelan, W.J. (1974) *FEBS Lett.* 40, Suppl., S154-S159.

BIOENERGETICS

Binding of ADP and ATP to mitochondrial protein and its possible involvement in the mechanism of oxidative phosphorylation.

Alexandre, A., Rossi, C.R. & Carignani, G. (1974) *Advan.Cytopharmacol.* 2, 163.

Electron transport phosphorylation.

Baltscheffsky, H. & Baltscheffsky, M. (1974) *Annu. Rev.Biochem.* 43, 871-897.

Excitation energy transfer in photosynthesis.

Borisov, A.Yu. & Godik, V.I. (1973) *Biochim.Biophys.Acta*, 301, 227.

Studies on electron transport and energy-linked reactions using mutants of *Escherichia coli*.

Cox, G.B. & Gibson, F. (1974) *Biochim.Biophys.Acta*, 346, 1.

A monomolecular electron transfer chain: structure and function of cytochrome c_3 .

DerVartanian, D.V. & LeGall, J. (1974) *Biochim.Biophys.Acta*, 346, 79.

Redox potentiometry in mitochondrial and photosynthetic bioenergetics.

Dutton, P.L. & Wilson, D.F. (1974) *Biochim.Biophys.Acta*, 346, 165.

Proceedings of a conference on the history of bioenergetics, held at the American Academy of Arts and Sciences, October 1973.

Edsall, J.T. & others (1974) *Mol.Cell.Biochem.* 5, 1.

Equilibrium between metabolic pathways producing energy: A key factor in regulating lipolysis.

[Invited review]

Fassina, G., Dorigo, P. & Gaion, R.M. (1974) *Pharmacol.Res.Commun.* 6, 1.

Energy balance and obesity in man.

Garrow, J.S. (1974) 335pp., North-Holland.

The electromechanochemical model for energy coupling in mitochondria.

Green, D.E. (1974) *Biochim.Biophys.Acta*, 346, 27.

The mechanism of energy transduction in biological systems.

Green, D.E., ed. (1974) *Ann.N.Y.Acad.Sci.* 227, 5.

X-ray structural studies of ferredoxin and related electron carriers.

Jensen, L.H. (1974) *Annu.Rev.Biochem.* 43, 461-474.

Biochemical mutants: an approach to mitochondrial energy coupling.

Kováč, L. (1974) *Biochim.Biophys.Acta*, 346, 101.

Several topics concerning Na,K-ATPase. [Minireview]

Nakao, M. (1974) *Life Sci.* 15, 1849-1860.

Biomembranes — architecture, biogenesis, bioenergetics and differentiation. Proceedings of the international symposium on biomembranes, Madurai University, India, December 1973.

Packer, L., ed. (1974) 423pp., Academic Press.

Role of energy metabolism in histamine release. A study on isolated rat mast cells.

Peterson, C. (1974) *Acta Physiol.Scand.*, Suppl. No. 413, 34pp.

8 α -substituted flavins of biological importance.

[Review letter]

Singer, T.P. & Edmondson, D.A. (1974) *FEBS Lett.* 42, 1-14.

Mechanisms of inorganic oxidation and energy coupling.

Suzuki, I. (1974) *Annu.Rev.Microbiol.* 28, 85.

Energy conservation in photosynthetic electron transport of chloroplasts.

Trebst, A. (1974) *Annu.Rev.Plant Physiol.* 25, 423.

The NIH shift and its implications for the mechanism of biological oxidations.

Witkop, B. (1973) *Curr.Top.Biochem.* 109.

On the mechanism of ATP synthesis in oxidative phosphorylation: a review.

Young, J.H., Korman, E.F. & McLick, J. (1974) *Bio-org.Chem.* 3, 1.

BLOOD AND BLOOD PROTEINS

See also: HAEMOGLOBIN

IMMUNOGLOBULINS

Hereditary disorders of the red cell in animals.

Bannerman, R.M., Edwards, J.A. & Pinkerton, P.H. (1973) *Progr.Hematol.* 8, 131-179.

Blood coagulation factor VIII (antihemophilic factor): with comments on von Willebrand's disease and Christmas disease.

Barrow, E.M. & Graham, J.B. (1974) *Physiol.Rev.* 54, 23.

2,3-DPG and erythrocyte oxygen affinity.

Brewer, G.J. (1974) *Annu.Rev.Med.* 25, 29.

Anticoagulation in the treatment of cancer: Symposium.

Brodsky, I., ed. (1974) *J.Med.* 5, Nos. 1-3.

Renin and Natrium in der Blutdruckregulation. [Renin and sodium in the regulation of blood pressure]

Brunner, H.R. & Gavras, H. (1974) *Schweiz.Med.Wochenschr.* 104, 1401.

Symposium on hematology — Parts 1 and 2.

Brunning, R.D. & Brittin, G.M., guest eds (1974) *Hum.Pathol.* 5, 517, 641.

Essentielle Hypertonie: Renin und Aldosteron, Schlüssel zu Pathogenese und Therapie? [Renin and aldosterone: the key to pathogenesis and treatment of essential hypertension?]

Bühler, F.R. (1974) *Schweiz.Med.Wochenschr.* 104, 1013.

Recent developments in the chemistry and therapy of sickle cell anaemia. [In English and Spanish, followed by 5 reprinted articles]

Cerami, A. (1974) *PAABS Rev.* 3, 707-751.

Thrombosis: mechanisms and control.

Cooper, T. & others (1973) *Thromb.Diath.Haemorrh.*, Suppl. 54.

Coumarin anticoagulants: a review of some current research areas.

Deckert, F.W. (1974) *South.Med.J.* 67, 1191.

"New" platelet diseases and their biochemical aspects

De Gaetano, G. (1973) *Acta Vitaminol.Enzymol.* 27, 223.

- Some aspects of fibrinogen biochemistry; interaction with proteolytic enzymes.
Donati, M.B. (1973) *Acta Vitaminol.Enzymol.* 27, 233.
- Low-renin hypertension. [Editorial review]
Dunn, M.J. & Tannen, R.L. (1974) *Kidney Int.* 5, 317.
- Kinetic studies of transport across red blood cell membranes.
Ellam, Y. & Stein, W.D. (1974) *Methods Membrane Biol.* 2, 283.
- Symposium issue: Advances in hematology.
Epstein, R.B. & others (1974) *Postgrad.Med.* 55, No.5.
- Androgens and erythropoiesis.
Evans, R.P. & Amerson, A.B. (1974) *J.Clin.Pharmacol.* 14, 94.
- Platelets, ADP, AMP(c) and antiplatelets drugs.
Gascon, G., Trudel, J., Rabbat, A., Trudel, J. & Dufault, C. (1974) *Union Med.Can.* 103, 1077.
- Erythrocytes: thrombocytes: leukocytes. Recent advances in membrane and metabolic research. Papers and discussions at the 11nd international symposium, Vienna, June 14-16, 1972.
Gerlach, E., Moser, K., Deutsch, E. & Wilmanns, W., eds (1973) 523pp., Intercontinental Medical Book Corporation/Georg Thieme.
- Erythropoietin.
Gordon, A.S. (1973) *Vitam.Horm.* 31, 105-174.
- Rh nul phenotype. [In French: English abstract]
Habibi, B. (1974) *Rev.Fr.Transfus.* 17, 159.
- On fibrinolysis and coagulation during parturition and menstruation, with special reference to fibrinogen-fibrin degradation products.
Hahn, L. (1974) *Acta Obstet.Gynecol.Scand., Suppl.* 28, 53pp.
- Control of platelet production.
Harker, L.A. (1974) *Annu.Rev.Med.* 25, 383.
- Immunologic properties of antihemophilic factor.
Hoyer, L.W. (1973) *Progr.Hematol.* 8, 191-221.
- Hypertension, Vol.XXII. Peptides, lipids, electrolytes, and hypertension.
Hunt, J.C., ed. (1974) *Circ.Res.* 34, No.5, Suppl.1.
- Red blood cell hemolysate preparation.
Huntsman, R.G. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 34.
- Sickling tests - microscopic and nonmicroscopic.
Huntsman, R.G. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 45.
- Iron deficiency, growth, and stimulated erythropoiesis.
Isager, H. (1974) *Scand.J.Haematol., Suppl.* 21, 175pp.
- Review of the induction of cycling of erythropoietin sensitive cells by androgens and their 5 β -H-metabolites.
Jepson, J.H., Leonard, R.A., Gorshein, D., Gardner, F.H. & Besa, E. (1974) *Biomedicine*, 20, 262.
- The proteins of the erythrocyte membrane.
Juliano, R.L. (1973) *Biochim.Biophys.Acta*, 300, 341.
- Comparative erythrocyte metabolism.
Kaneko, J.J. (1974) *Advan.Vet.Sci.Comp.Med.* 18, 117.
- Problems of differentiation in haemopoiesis.
Lajtha, L.G. & Schofield, R. (1974) *Differentiation*, 2, 313.
- Control of cerebral circulation in health and disease.
Lassen, N.A. (1974) *Circ.Res.* 34, 749.
- Sickle cell symposium.
Lessin, L.S. & Jensen, W.N., guest eds (1974) *Arch.Intern.Med.* 133, 529.
- Microcalorimetric studies of human blood cells.
Levin, K. (1973) *Scand.J.Clin.Lab.Invest.* 32, Suppl. 135, 24pp.
- Dyserythropoiesis and dyserythropoietic anemias.
Lewis, S.M. & Verwilghen, R.L. (1973) *Progr.Hematol.* 8, 99-129.
- Regulators of cell division. A review. I. Endogenous mitotic inhibitors of hematopoietic cells.
Lozzio, B.B. (1973) *Exp.Hematol.* 1, 309.
- Solubilization and characterization of membrane proteins. A1. Erythrocyte membranes.
Maddy, A.H. & others (1974) *Protides of the biological fluids. Proc. 18th Colloq.Bruges, 1973.* pp.21-62, Pergamon.
- Physiology and biochemistry of prothrombin conversion. Trans. 21st annual symposium on blood, Detroit, Mich., January 1973.
Mammen, E.F., Anderson, G.F. & Barnhart, M.I., eds (1974) *Thromb.Diath.Haemorrh., Suppl.* 57.
- Anti-leukocyte and anti-platelet auto-antibodies.
Mayer, S., Salvador, J. & Tongio, M.-M. (1974) *Pathol.Biol.Semaine Hôp.* 22, 525.
- Is adenosine the mediator for the regulation of the coronary circulation and for the efficiency of coronarodilators?
Meisel, M. & Meisel, P. (1974) *Pharmazie*, 29, 561.
- The influence of intravenously administered cortisol - with and without the addition of insulin or pre-treatment with propanol - on various parameters of fat and carbohydrate metabolism in blood plasma of human beings.
Mischke, W.J., Ebers, S., Boisch, K.H. & Tamm, J. (1974) *Acta Endocrinol., Suppl.* 186, 41pp.
- Haematology.
Newmark, P.A. & Gordon, Y.B. (1974) *Brit.Med.Bull.* 30, 86-89.
- Lipids and thrombosis. Proceedings from the III Tromso seminar in medicine, University of Tromso, Norway, June 1974.
Nordoy, A., Jorgensen, L. & Prydz, H., eds (1974) *Thromb.Res.* 4, Suppl.1.
- Blood-brain barrier permeability to drugs.
Oldendorf, W.H. (1974) *Annu.Rev.Pharmacol.* 14, 239.
- Ion and water movements in red blood cells.
Orringer, E.P. & Parker, J.C. (1973) *Progr.Hematol.* 8, 1-23.
- The mechanism of blood coagulation.
Owren, P.A. & Stormorken, H. (1973) *Ergeb.Physiol. Biol.Chem.Exp.Pharmakol.* 68, 1-53.
- Molecular organization of amine storage organelles of blood platelets and adrenal medulla.
Pletscher, A., Da Prada, M., Berneis, K.H., Steffen, H., Lütold, B. & Weder, H.G. (1974) *Advan.Cytopharmacol.* 2, 257.

Alpha, beta, gamma, omega? The past, present and future of plasma proteins. [2nd Arne Tiselius memorial lecture]

Putnam, F.W. (1974) *Protides of the biological fluids. Proc. 21st Colloq. Bruges, 1973.* pp.3-18, Pergamon.

Some recent advances in the study of hemostasis.

Ratnoff, O.D. (1974) *Circ.Res.* 35, 1.

The measurement of flow in intact blood vessels. (150 references).

Roberts, V.C. (Baker, L.E., referee) (1973) *CRC Crit.Rev.Bioeng.* 1, Iss.4, 419.

Correlation of in vivo and in vitro measurements of hemolysis in hemolytic anemia due to immune reactions.

Rosse, W.F. (1973) *Progr.Hematol.* 8, 51-75.

Lecithinabbau und Cholesterinveresterung im Humanserum. Neuere Erkenntnisse über die Stellung der Lecithin-Cholesterin-Acyltransferase im Fettstoffwechsel unter normalen und pathologischen Bedingungen. Lecithin degradation and esterification of cholesterol in human serum. Further results on the role of lecithin-cholesterol-acyltransferase in lipid metabolism under normal and pathological conditions.

Scherer, R. (1974) *Klin.Wochenschr.* 52, 203.

Plasma protein binding.

Schwarzenfeld, I.v. (1974) *Pharmazie*, 29, 497.

Platelets, thrombosis, and inhibitors. Proceedings of a seminar held under the auspices of the U.S.-Japan Cooperative Science program, University of Hawaii, December 1973.

Shimamoto, T. & others (1974) *Thromb.Diath. Haemorrh., Suppl.* 60.

Blood platelets and the inflammatory process.

Silver, M.J., Smith, J.B. & Ingeman, C.M. (1974) *Agent.Action.* 4, 233.

Syndrome of acute cardio-vascular insufficiency in thromboembolism of the pulmonary artery. (Survey) [In Russian: English abstract]

Smetnev, A.S. & Dobrotvorskaya, T.E. (1974) *Sov. Med., No.8*, 34.

Blood oxygenation in extracorporeal devices: theoretical consideration. (80 references)

Spaeth, E.E. [Lightfoot, E.N., referee] (1973) *CRC Crit.Rev.Bioeng.* 1, Iss.4, 383.

The organization of proteins in the human red blood cell membrane. A review.

Steck, T.L. (1974) *J.Cell.Biol.* 62, 1.

The regulation of myelopoiesis as approached with in vivo and in vitro techniques.

Stohlman, jr, F., Quesenberry, P.J. & Tyler, W.S. (1974) *Progr.Hematol.* 8, 259-297.

Serum triiodothyronine in man.

Utiger, R.D. (1974) *Annu.Rev.Med.* 25, 289.

Perspectives on the renin angiotensin aldosterone system in hypertension.

Vagnucci, A.H. & Shapiro, A.P. (1974) *Metabolism*, 23, 273.

Oxygen transport and viability of preserved red blood cells.

Valeri, C.R. (1974) *J.Med.* 5, 278.

Molecular basis for some disorders of haemoglobin synthesis - I and II. [Based on the 1974 Watson Smith lecture given at the Royal College of Physicians of London on 8 May 1974]

Weatherall, D.J. (1974) *Brit.Med.J.* 4, 451-454; 516-519.

Serum and urine amylase in health and disease.

Wettendorff, P., Schoenfeld, P., Adler, M. & Delcourt, A. (1974) *Arch.Fr.Mal.App.Dig.* 63, 63.

Biochemische Prozesse bei der Auslösung der Blutgerinnung durch Kollagen. Biochemical mechanisms in inducing of coagulation by collagen.

Wuppermann, Th. & Hörmann, H. (1974) *Klin.Wochenschr.* 52, 409.

Third conference on Cooley's anemia.

Zaino, E.C., ed. (1974) *Ann.N.Y.Acad.Sci.* 232, 5.

BONE

The physiological and cellular basis of metabolic bone disease.

Rasmussen, H. & Bordier, P., eds (1974) 364pp., Williams & Wilkins.

BRAIN AND CENTRAL NERVOUS SYSTEM

Influence of metabolic factors on brain development.

Balázs, R. (1974) *Brit.Med.Bull.* 30, 126-134.

Synaptic molecules: identification and metabolism.

Barondes, S.H. (1974) *Annu.Rev.Biochem.* 43, 147-168.

The neurobiology of cricket song.

Bentley, D. & Hoy, R.R. (1974) *Sci.Amer.* 231, no.2, 34-44.

The cerebrospinal fluid and the extracellular fluid of the brain. [Symposium]

Bering, jr, E.A., chairman (1974) *Fed.Proc.* 33, 2061.

An immunological approach to regeneration in the central nervous system.

Berry, M. & Riches, A.C. (1974) *Brit.Med.Bull.* 30, 135-140.

Development of functional connexions in the mammalian visual system.

Blakemore, C. (1974) *Brit.Med.Bull.* 30, 152-157.

The dynamic role of lipids in the nervous system.

Bowen, D.M., Davidson, A.N. & Ramsey, R.B. (1974) In: MTP International Review of Science, Biochemistry Series Vol.4, Biochemistry of lipids (Goodwin, T.W., ed.) p.141, Butterworths.

Nerve growth factor. [Minireview]

Boyd, L.F., Bradshaw, R.A., Frazier, W.A., Hogue-Angeletti, R.A., Jeng, I., Pulliam, M.W. & Szutowica, A. (1974) *Life Sci.* 15, 1381-1391.

Nerve growth factor and insulin: Evidence of similarities in structure, function, and mechanism of action.

Bradshaw, R.A., Hogue-Angeletti, R.A. & Frazier, W.A. (1974) *Recent Progr.Horm.Res.* 30, 575.

Scintillation scanning of the brain.

Brownell, G.L., Correia, J.A. & Hoop, jr, B. (1974) *Annu.Rev.Biophys.Bioeng.* 3, 365.

- Biosynthesis of brain gangliosides.
Caputto, R., Maccioni, H.J. & Arce, A. (1974) *Mol. Cell. Biochem.* 4, 97.
- In search of the rules for nerve connections.
Chung, S.H. (1974) *Cell*, 3, 201.
- Mental retardation and behavioural change.
Clarke, A.D.B. & Clarke, A.M. (1974) *Brit. Med. Bull.* 30, 179-185.
- Tonotopic organization: review and analysis.
Clopton, B.M., Winfield, J.A. & Flammino, F.J. (1974) *Brain Res.* 76, 1.
- Regulation of biosynthesis of catecholamines and serotonin in the CNS.
Costa, E. & Meek, J.L. (1974) *Annu. Rev. Pharmacol.* 14, 491.
- Plasticity of synapses.
Cragg, B.G. (1974) *Brit. Med. Bull.* 30, 141-145.
- Amino acid transmitters in the mammalian central nervous system.
Curtis, D.R. & Johnston, G.A.R. (1974) *Ergeb. Physiol. Biol. Chem. Exp. Pharmacol.* 69, 97.
- Brain-adrenal interactions.
Dell, P. & Kordan, C., eds (1974) 353pp., INSERM.
- Vulnerability of developing brain and behaviour.
Dobbing, J. & Smart, J.L. (1974) *Brit. Med. Bull.* 30, 164-168.
- Environment-dependent brain differentiation and fundamental processes of life. [Review letter]
Dörner, G. (1974) *Acta Biol. Med. Ger.* 23, 129.
- Transport of macromolecules in nerve cells.
Droz, B. & Di Giambardino, L. (1974) *Advan. Cytopharmacol.* 2, 249.
- Brain mechanisms in motor control. [Minireview]
Evarts, E.V. (1974) *Life Sci.* 15, 1393-1400.
- Modification of brain serotonin by the diet.
Fernstrom, J.D. (1974) *Annu. Rev. Med.* 25, 1.
- Nutrition and the brain.
Fernstrom, J.D. & Wurtman, R.J. (1974) *Sci. Amer.* 230, no. 2, 84-91.
- Neurotoxicity during intravenous infusion of penicillin: A review.
Fossieck, jr, B. & Parker, R.H. (1974) *J. Clin. Pharmacol.* 14, 504.
- Neuronal specificity.
Gaze, R.M. (1974) *Brit. Med. Bull.* 30, 116-121.
- Development and regeneration in the nervous system.
Gaze, R.M. & Keating, M.J., scientific eds (1974) *Brit. Med. Bull.* 30, No. 2, 105-189.
- Inductive functions of the nervous system.
Harris, A.J. (1974) *Annu. Rev. Physiol.* 36, 251-305.
- The mechanisms of neural tube formation.
Karfunkel, P. (1974) *Int. Rev. Cytol.* 38, 245.
- Selective metabolic pathways to noradrenaline in the peripheral and in the central nervous system.
Langer, S.Z. (1974) *Med. Biol.* 52, 372.
- Metabolism in relation to function in ganglia and peripheral nerves in vertebrates. [Symposium]
Larrabee, M.G., chairman (1974) *Fed. Proc.* 33, 1039.
- Control of cerebral circulation in health and disease.
Lassen, N.A. (1974) *Circ. Res.* 34, 749.
- Causation of neural tube defects: clues from epidemiology.
Leck, I. (1974) *Brit. Med. Bull.* 30, 158-163.
- Remyelination in relation to clinical lesions of the central nervous system.
McDonald, W.I. (1974) *Brit. Med. Bull.* 30, 186-189.
- Slow virus diseases of the central nervous system.
Marsh, R.F. (1974) *Advan. Vet. Sci. Comp. Med.* 18, 155.
- Brain function: changing ideas on the role of sensory, motor, and association cortex in behavior.
Masterton, R.B. & Berkley, M.A. (1974) *Annu. Rev. Psychol.* 25, 277.
- Blood-brain barrier permeability to drugs.
Oldendorf, W.H. (1974) *Annu. Rev. Pharmacol.* 14, 239.
- Brain dysfunction in metabolic disorders.
Plum, F., ed. (1974) 324pp., Raven Press.
- Axon and cell numbers in the developing nervous system.
Prestige, M.C. (1974) *Brit. Med. Bull.* 30, 107-111.
- Amino acids and the brain. The seventh jubilee lecture.
Quastel, J.H. (1974) *Biochem. Soc. Trans.* 2, 765.
- Specific brain proteins: a biochemical and immunological review.
Rauch, H.C. & Einstein, E.R. (1974) *Rev. Neurosci.* 1, 283.
- γ -aminobutyric acid and nervous system function - A perspective. [Commentary]
Roberts, E. (1974) *Biochem. Pharmacol.* 23, 2637.
- Scanning electron microscopy in the ultrastructural analysis of the mammalian cerebral ventricular system.
Scott, D.E., Kozlowski, G.P. & Sheridan, M.N. (1974) *Int. Rev. Cytol.* 37, 349.
- RNA metabolism in the brain.
Shashoua, V.E. (1974) *Int. Rev. Neurobiol.* 16, 183.
- The use of neuropoisons in the study of cholinergic transmission.
Simpson, L.L. (1974) *Annu. Rev. Pharmacol.* 14, 305.
- On the turnover of acetylcholine in the brain. An experimental study using intravenously injected radioactive choline.
Sparf, B. (1973) *Acta Physiol. Scand., Suppl.* 397, 47pp.
- Role of lipids in activation of Na^+ , K^+ -dependent ATPase and K^+ -dependent phosphatase of the brain.
Tanaka, R. (1974) *Rev. Neurosci.* 1, 181.
- A molecular approach to nerve excitation.
Tasaki, I. & Carbone, E. (1974) *Curr. Top. Membranes Transp.* 5, 283.
- Early malnutrition, growth and mental development in man.
Tizard, J. (1974) *Brit. Med. Bull.* 30, 169-174.
- Schizophrenia and the limbic system. [Occasional survey]
Torrey, E.F. & Peterson, M.R. (1974) *Lancet*, II, 942-946.
- Cellular responses to axotomy and to related procedures.
Watson, W.E. (1974) *Brit. Med. Bull.* 30, 112-115.

Neurotoxicity of commonly used antineoplastic agents.
Weiss, H.D., Walker, M.D. & Wiernik, P.H. (1974)
N.Engl.J.Med. 291, 75-81; 127-133.

Some speculations concerning a possible biochemical basis of minimal brain dysfunction. [Minireview]
Wender, P.H. (1974) *Life Sci.* 14, 1605-1621.

George Bidder Lecture 1973. Brains and worlds: the cerebral cosmologies.

Young, J.Z. (1974) *J.Exp.Biol.* 61, 5.

Study of factors influencing prenatal brain development.

Zamenhof, S. & van Marthens, E. (1974) *Mol.Cell. Biochem.* 4, 157.

Presidential address: Studies in the neuronal ceroid-lipofuscinoses.

Zeman, W. (1974) *J.Neuropathol.Exp.Neurol.* 33, 1.

Brain tumours.

Zimmerman, H.M. (1973) *Methods Cancer Res.* 10, 105.

CALCITONIN

Parathyroid hormone, calcitonin, and vitamin D.

MacIntyre, I. (1974) *Curr.Top.Exp.Endocrinol.* 2, 179.

CALCIUM

The interrelationship between sodium and calcium fluxes across cell membranes.

Blaustein, M.P. (1974) *Rev.Physiol.Biochem.Pharmacol.* 70, 33-82.

Calcium and phosphate metabolism.

Borle, A.B. (1974) *Annu.Rev.Physiol.* 36, 361.

Die intestinale Calcium-Resorption und ihre Störungen. I. Teil. (Calcium absorption in health and disease part I)

Ewe, K. (1974) *Klin.Wochenschr.* 52, 57.

Die intestinale Calcium-Resorption und ihre Störungen. II. Teil. (Calcium absorption in health and disease part II)

Ewe, K. (1974) *Klin.Wochenschr.* 52, 64.

Hypercalciurie - Nephrocalcinose - Kalklithiasis der Niere. [In German: English abstract]

Heidbreder, E., Hennemann, H. & Heidland, A. (1974) *Dtsch.Med.Wochenschr.* 99, 586.

Niere und Calciummetabolismus. [In German: English abstract]

Heidbreder, E., Röckel, A. & Heidland, A. (1974) *Dtsch.Med.Wochenschr.* 99, 537.

The role of calcium in the central effects of biogenic amines. [Minireview]

Phillis, J.W. (1974) *Life Sci.* 14, 1189-1201.

Exchange of calcium ions in the mammalian myocardium: mechanisms and physiological significance.

Reuter, H. (1974) *Circ.Res.* 34, 599.

Calcium homeostasis and the pathogenesis and management of hypercalcemic disorders. [Progress in endocrinology and metabolism]

Schneider, A.B. & Sherwood, L.M. (1974) *Metabolism*, 23, 975.

Calcium translocation by cells.

Simkiss, K. (1974) *Endeavour*, 33, 119-123.

Vitamin D, calcium and protein synthesis.

Wasserman, R.H. & Corradino, R.A. (1973) *Vitam. Horm.* 31, 43-103.

CANCER

Symposium: Third conference on embryonic and fetal antigens in cancer.

Anderson, N.G. & others (1974) *Cancer Res.* 34, 2021.

Recent observations related to the chemotherapy and immunology of gestational choriocarcinoma.

Bagshawe, K.D. (1973) *Advan.Cancer Res.* 18, 231-263.

Tumour-associated antigens.

Bagshawe, K.D. (1974) *Brit.Med.Bull.* 30, 68-73.

Immunological aspects of chemical carcinogenesis.

Baldwin, R.W. (1973) *Advan.Cancer Res.* 18, 1-75.

Embryonic antigen expression on experimental rat tumours.

Baldwin, R.W., Embleton, M.J., Price, M.R. & Vose, B.M. (1974) *Transplant.Rev.* 20, 77.

Virion and tumor cell antigens of C-type RNA tumor viruses.

Bauer, H. (1974) *Advan.Cancer Res.* 20, 275.

Host-virus interactions in murine mammary carcinogenesis.

Bentvelzen, F. (1974) *Biochim.Biophys.Acta*, 355, 236.

Multiple tumors of the skin: clinical, histopathological, and genetic features.

Berendes, U. (1974) *Humangenetik*, 22, 181.

Carcinogenic hazards in natural and man-made environments.

Bergel, F. (1974) *Proc.Roy.Soc.London, Ser.B*, 185, 165-181.

Antineoplastic agents.

Bloch, A. (1974) *Annu.Rep.Med.Chem.* 7, 139.

Reflections on biochemical aspects of human cancer: The Lucy Wortham James Lecture.

Bodansky, O. (1974) *Cancer*, 33, 364.

Structural components of RNA tumor viruses.

Bolognesi, D.P. (1974) *Advan.Virus Res.* 19, 315.

The function and mechanism of promoters of carcinogenesis (157 references).

Boutwell, R.K. (Sivak, A., referee) (1974) *CRC Crit. Rev.Toxicol.* 2, 419.

Anticoagulation in the treatment of cancer: symposium.

Brodsky, I., ed. (1974) *J.Med.* 5, Nos.1-3.

Carcino-embryonic antigen. [In French: English abstract]

Burtin, P. & others (1973) *Bull.Cancer*, 60, No.4, 361.

The molecular biology of cancer.

Rusch, H., ed. (1974) 638pp., Academic Press.

The ultrastructure of the local cellular reaction to neoplasia.

Carr, I. & Underwood, J.C.E. (1974) *Int.Rev.Cytol.* 37, 329.

Chemical carcinogens in the environment and in the human diet: Can a threshold be established?

Claus, G., Krisko, I. & Bolander, K. (1974) *Food Cosmet.Toxicol.* 12, 737.

Cancer, differentiation and embryonic antigens: some central problems.

Coggin, J.H. & Anderson, N.G. (1974) *Advan.Cancer Res.* 19, 106.

Simian herpesviruses and neoplasia.

Deinhardt, F.W., Falk, L.A. & Wolfe, L.G. (1974) *Advan.Cancer Res.* 19, 167.

Ribosomes and cancer.

Delaunay, J. & Shapira, G. (1974) *Biomedicine*, 20, 328.

Structure-antitumor activity relationships among quinone derivatives.

Driscoll, J.S., Hazard, jr, G.F., Wood, jr, H.B. & Goldin, A. (1974) *Cancer Chemother.Rep.* 4, No.2, pt.2 (Suppl.), 1-362.

Genetics of DNA tumor viruses.

Eckhart, W. (1974) *Annu.Rev.Genet.* 8, 301.

Immunologic mechanisms in the prevention and therapy of cancer.

Fleisher, T.A. & Kersey, J.H. (1974) *Amer.J.Dis. Child.* 128, 739.

The genetic control of leukemogenesis. II. Genetic systems involved in the control of leukemogenesis as they are detected "in vivo".

Gisselbrecht, S. & Levy, J.P. (1974) *Biomedicine*, 20, 171.

Group antigens and antigenic determinants of reverse transcriptase of type C oncornavirus.

Gomard, E. & Levy, J.-P. (1974) *Pathol.Biol.Semaine Hôp.* 22, 621.

RNA-directed DNA polymerase - properties and functions in oncogenic RNA viruses and cells.

Green, M. & Gerard, G.F. (1974) *Progr.Nucleic Acid Res.* 14, 188.

Sir Ernest Laurence Kennaway FRS, 1881-1958: Chemical causation of cancer then and today.

Haddow, A. (1974) *Perspect.Biol.Med.* 17, 543.

FSA - foetal sulphoglycoprotein antigen associated with gastric cancer.

Häkkinen, I.P.T. (1974) *Transplant.Rev.* 20, 61.

Glycolipids of tumor cell membrane.

Hakomori, S.-I. (1973) *Advan.Cancer Res.* 18, 265-315.

1973 Intra-science symposium: new ideas in cancer chemotherapy.

Hall, T.C. & others (1974) *Cancer Chemother.Rep.* Pt.1, 58, 429.

Comparative aspects of mammary tumors.

Hamilton, J.M. (1974) *Advan.Cancer Res.* 19, 1.

Transport of sugars in tumor cell membranes.

Hatanaka, M. (1974) *Biochim.Biophys.Acta*, 355, 77.

Chemical oncogenesis in culture.

Heidelberger, C. (1973) *Advan.Cancer Res.* 18, 317-366.

Cell-mediated immunity to tumor cells.

Herberman, R.B. (1974) *Advan.Cancer Res.* 19, 207.

Theory of carcinogenic activity of aromatic hydrocarbons.

Herndon, W.C. (1974) *Trans.N.Y.Acad.Sci.* 36, 200.

Activation of mammalian leukemia viruses.

Hirsch, M.S. & Black, P.H. (1974) *Advan.Virus Res.* 19, 265.

Immunotherapy of cancer.

Hodson, A. & Wheelock, E.F. (1974) *Annu.Rep.Med. Chem.* 7, 151.

Symposium: Antibiotics and neoplasia.

Horwitz, S.B., chairman (1974) *Fed.Proc.* 33, 2281.

The cell surface and malignant transformation.

Hough, P.V.C. (1974) *Annu.Rev.Med.* 25, 431.

The intestinal cell surface: some properties of normal, undifferentiated, and malignant cells.

[Basic review]
Isselbacher, K.J. (1974) *Ann.Intern.Med.* 81, 681.

The possible biological significance of Fc receptors on mammalian lymphocytes and tumor cells.

Kerbel, R.S. & Davies, A.J.S. (1974) *Cell*, 3, 105.

Immunodeficiency and cancer.

Kersey, J.H., Spector, B.D. & Good, R.A. (1973) *Advan.Cancer Res.* 18, 211-230.

Carcinogenesis by aromatic amines.

Kriek, E. (1974) *Biochim.Biophys.Acta*, 355, 177.

Immunosuppression and carcinogenesis. A review.

Kripke, M.L. & Borsos, T. (1974) *Isr.J.Med.Sci.* 10, 888.

Lymphoreticular neoplasia in immunosuppression: facts and fancies.

Krüger, G.R.F. (1974) *Beitr.Pathol.* 151, 221.

Viruses, evolution and cancer. Basic considerations. Proceedings of the 2nd international conference of comparative virology, Mont Gabriel, Canada, August 1973.

Kurstak, E. & Maramorosch, K., eds (1974) 813pp., Academic Press.

The immune response to virally determined tumor associated antigens.

Lamon, E.W. (1974) *Biochim.Biophys.Acta*, 355, 149.

Drug reactions: Cutaneous reactions to cytostatic agents.

Levantine, A. & Almeyda, J. (1974) *Brit.J.Dermatol.* 90, 239.

Effect of chemotherapy on the immune response in acute leukemia. A review.

Leventhal, B.G., Cohen, P. & Triem, S.C. (1974) *Isr.J.Med.Sci.* 10, 866.

The role of macrophages in defense against neoplastic disease.

Levy, M.H. & Wheelock, E.F. (1974) *Advan.Cancer Res.* 20, 131.

Antigens of murine leukemia viruses.

Lilly, F. & Steeves, R. (1974) *Biochim.Biophys. Acta*, 355, 105.

- Viruses as immunological adjuvants in cancer.
Lindenmann, J. (1974) *Biochim.Biophys.Acta*, 355, 49.
- Organization and communication in populations of normal and leukemic hemopoietic cells.
McCulloch, E.A., Mak, T.W., Price, G.B. & Till, J.E. (1974) *Biochim.Biophys.Acta*, 355, 260.
- Hormone dependence in breast cancer.
McGuire, W.L., Chamness, G.C., Costlow, M.E. & Shepherd, R.E. (1974) *Metabolism*, 23, 75.
- Molecular effects of hormones in breast cancer: estrogen receptors. [Minireview]
McGuire, W.L., Chamness, G.C. & Shepherd, R.E. (1974) *Life Sci.* 14, 19-33.
- Hormones and cancer.
McKerns, K.W., ed. (1974) 394pp., Academic Press.
- Activation and inactivation of chemical carcinogens and mutagens in the mammal.
Magee, P.N. (1974) *Essays Biochem.* 10, 105-136.
- Spontaneous and radiation induced tumors in animals.
Maisin, J.R. (1974) *Biomedicine*, 20, 102.
- Control processes in neoplasia. Proceedings of a Symposium, University of Nebraska Medical Center, Omaha, Nebraska, June 1973.
Mehlman, M.A. & Hanson, R.W., eds (1974) 223pp., Academic Press.
- Selman A.Waksman Conference on Actinomycins: their potential for cancer chemotherapy.
Meienhofer, J. & others (1974) *Cancer Chemother. Rep. Pt.1*, 58, 1.
- In vitro malignant transformation of cells by chemical carcinogens.
Mishra, N.K. & di Mayorca, G. (1974) *Biochim.Biophys.Acta*, 355, 205.
- Immunology of cancer: basic experiments and clinical progress.
Pasternak, G. (1973) *Arch.Geschwulstforsch.* 42, 345.
- Endocrine tumours of neural crest origin: neurolophomas, apudomas and the APUD concept.
Pearse, A.G.E. & Polak, J.M. (1974) *Med.Biol.* 52, 3.
- The lymphocyte in chronic lymphatic leukaemia. [Occasional survey]
Perera, D.J.B. & Pegrum, G.D. (1974) *Lancet*, I, 1207-1209.
- Are cell kinetic data relevant for the design of tumour chemotherapy schedules?
van Putten, L.M. (1974) *Cell Tissue Kinet.* 7, 493.
- Tumor cell surfaces: general alterations detected by agglutinins.
Rapin, A.M.C. & Burger, M.M. (1974) *Advan.Cancer Res.* 20, 1.
- Herpesviruses and cancer.
Rapp, F. (1974) *Advan.Cancer Res.* 19, 265.
- Conference on the use of BCG in therapy of cancer, National Institutes of Health, October 1972.
Rapp, H.J. & others (1973) *Natl Cancer Inst.Monogr.*, No. 39.
- Immunology of cancer.
Richards, V., volume ed. (1974) *Progr.Exp.Tumor Res.* 19.
- Present state of immunotherapy of tumours.
Rieche, K. (1974) *Arch.Geschwulstforsch.* 44, 167.
- Plastics and carcinogenesis.
Rigdon, R.H. (1974) *South.Med.J.* 67, 1459.
- An overview of cancer immunology.
Ritts, jr, R.E. & Neel, III, H.B. (1974) *Mayo Clin. Proc.* 49, 118.
- Activation of T lymphocytes against murine plasma cell tumors. A review of *in vitro* and *in vivo* studies
Röllinghoff, M., Wagner, H., Warner, N.L. & Nossal, G.J.V. (1974) *Isr.J.Med.Sci.* 10, 1001.
- Antibodies as carriers of anticancer agents. [Occasional survey]
Rubens, R.D. (1974) *Lancet*, I, 498-499.
- Immunology in neoplasia relating to diagnosis, therapy, and transplantation. Eighth annual ASCP Basic Science Research Symposium
Russell, W.O. & others (1974) *Amer.J.Clin.Pathol.* 62, 165.
- Role of cyclic nucleotides in cancer.
Ryan, W.L. & Heidrick, M.L. (1974) *Advan.Cyclic Nucl.Res.* 4, 81.
- Isozymes and cancer.
Schapira, F. (1973) *Advan.Cancer Res.* 18, 77-153.
- Molecular biology of the lymphocyte of the chronic lymphocytic leukemia.
Seeber, S. & Schmidt, C.G. (1974) *Klin.Wochenschr.* 52, 1093.
- Neoplasia and cell differentiation.
Sherbet, G.V., ed. (1974) 411pp., S.Karger.
- Epoxides in polycyclic aromatic hydrocarbon metabolism and carcinogenesis.
Sims, P. & Grover, P.L. (1974) *Advan.Cancer Res.* 20, 166.
- Blocking and unblocking of cell-mediated tumor immunity.
Sjögren, H.O. (1973) *Methods Cancer Res.* 10, 19.
- Evaluation of short-term tests for carcinogenicity.
Stoltz, D.R., Poirier, L.A., Irving, C.C., Stich, H.F., Weisenburger, J.H. & Grice, H.C. (1974) *Toxicol.Appl.Pharmacol.* 29, 157.
- Natural substances with carcinostatic properties.
Strauch, R. & Hiller, K. (1974) *Pharmazie*, 29, 656.
- On the origin of RNA tumor viruses.
Temin, H.M. (1974) *Annu.Rev.Genet.* 8, 155.
- On the origin of the genes for neoplasia. G.H.A.Clowe: Memorial lecture.
Temin, H.M. (1974) *Cancer Res.* 34, 2835.
- The cellular and molecular biology of RNA tumor viruses, especially avian leukosis-sarcoma viruses, and their relatives.
Temin, H.M. (1974) *Advan.Cancer Res.* 19, 48.
- Carcinembryonic antigen: characterization and clinical applications.
Terry, W.D., Henkart, P.A., Coligan, J.E. & Todd, C.W. (1974) *Transplant.Rev.* 20, 100.
- Physiological and biochemical reviews of sex differences and carcinogenesis with particular reference to the liver.
Toh, Y.C. (1973) *Advan.Cancer Res.* 18, 156-209.
- Lymphoreticular infiltration in human tumours: prognostic and biological implications: a review.
Underwood, J.C.E. (1974) *Brit.J.Cancer*, 30, 538-548.

The relation of prolactin and mammary gland carcinogenesis.

Van Der Gugten, A.A. & Verstraeten, A.A. (1973) *Methods Cancer Res.* 10, 161.

Neurotoxicity of commonly used antineoplastic agents.

Weiss, H.D., Walker, M.D. & Wiernik, P.H. (1974) *N.Engl.J.Med.* 291, 75-81; 127-133.

Steroid hormones and breast cancer.

Williams, D.C. (1974) *Advan.Steroid Biochem.Pharmacol.* 4, 209.

The genetics of C-type RNA tumor viruses.

Wyke, J.A. (1974) *Int.Rev.Cytol.* 38, 68.

Brain tumours.

Zimmerman, H.M. (1973) *Methods Cancer Res.* 10, 105.

Viral hepatitis, the B antigen and liver cancer.

Zuckerman, A.J. (1974) *Cell*, 1, 65.

CARBOHYDRATES

See also: POLYSACCHARIDES

The role of surface carbohydrates in the hepatic recognition of circulating glycoproteins.

Ashwell, G. & Morrell, A.G. (1974) *Advan.Enzymol.* 41, 99.

Monosaccharides.

Brimacombe, J.S. & Tucker, L.C.N. (1973) *Annu.Rep. Progr.Chem.Sect.B*, 70, 431.

Applications of gas-liquid chromatography to carbohydrates: Part II.

Dutton, G.G.S. (1974) *Advan.Carbohydr.Chem.* 30, 10.

The metabolism of α,α -trehalose.

Elbein, A.D. (1974) *Advan.Carbohydr.Chem.* 30, 227.

The electrochemistry of carbohydrates and their derivatives.

Fedoronko, M. (1974) *Advan.Carbohydr.Chem.* 29, 107.

Transport of sugars in tumor cell membranes.

Hatanaka, M. (1974) *Biochim.Biophys.Acta*, 355, 77.

Bibliography of crystal structures of carbohydrates, nucleosides, and nucleotides, 1970-1972.

Jeffrey, G.A. & Sundaralingam, M. (1974) *Advan.Carbohydr.Chem.* 30, 445.

Cyclic adenosine monophosphate and clinical medicine. Part II: Carbohydrate and lipid metabolism. [Invited review]

Keirns, J.J., Freeman, J. & Bitensky, M.W. (1974) *Amer.J.Med.Sci.* 268, 62.

The Meldola medal lecture: Chemical aspects of glycoproteins, proteoglycans, and carbohydrate-protein complexes of human tissues.

Kennedy, J.F. (1973) *Chem.Soc.Rev.* 2, 355.

β -eliminative degradation of carbohydrates containing uronic acid residues.

Kiss, J. (1974) *Advan.Carbohydr.Chem.* 29, 230.

Mass spectrometry in structural analysis of natural carbohydrates.

Lonngrén, J. & Svensson, S. (1974) *Advan.Carbohydr.Chem.* 29, 42.

The influence of intravenously administered cortisol - with and without the addition of insulin or pre-treatment with propranolol - on various parameters of fat and carbohydrate metabolism in blood plasma of human beings.

Mischke, W.J., Ebers, S., Boisch, K.H. & Tamm, J. (1974) *Acta Endocrinol., Suppl.* 186, 41pp.

Synthesis and utilization of formose sugars.

Mizuno, T. & Weiss, A.H. (1974) *Advan.Carbohydr.Chem.* 29, 173.

Immunological specificity of carbohydrate structures: from Pasteur to the present day. [In English]

Morgan, W.T.J. (1974) *Bull.Inst.Pasteur*, 72, 131.

Relationship between carbohydrate and lipid metabolism and the energy balance of the heart.

Neely, J.R. & Morgan, H.E. (1974) *Annu.Rev.Physiol.* 36, 413.

Sugars in nutrition. Based on papers presented at an International Conference held at Vanderbilt University School of Medicine, Nov., 1972.

Sipple, H.L. & McNutt, K.W., eds (1974) 768pp., Academic Press.

Metabolism of hexuronides and hexuronates in *Escherichia coli* K12: physiological and genetic aspects of its regulation.

Stoeber, F., Lagarde, A., Nemoz, G., Novel, M., Portalier, R., Pouyssegur, J. & Robert-Baudouy, J. (1974) *Biochimie*, 56, 199.

CARTILAGE

The reaction of articular cartilage to injury and osteoarthritis.

Mankin, H.J. (1974) *N.Engl.J.Med.* 291, 1285-1292; 1335-1340.

Edward A. Dunlop lecture: Cell biology and the repair of articular cartilage.

Sokoloff, L. (1974) *J.Rheumatol.* 1, 9.

CATECHOLAMINES

The role of prostaglandins and catecholamines in inflammation and in the mode of action of antiphlogistics.

Bekemeler, H., Giessler, A.J. & Hirschelmann, R. (1974) *Pharmazie*, 29, 671.

Epinephrine metabolism and receptor sites.

Blecher, M. & others (1974) *Advan.Enzyme Regul.* 12, 289-341.

Regulation of biosynthesis of catecholamines and serotonin in the CNS.

Costa, E. & Meek, J.L. (1974) *Annu.Rev.Pharmacol.* 14, 491.

Catecholamines and adrenergic receptors.

Escande, J.-P. (1974) *Nouv.Presse Med.* 3, 681.

The role of catecholamines and acetylcholine in the regulation of endocrine function. [Minireview]

Ganong, W.F. (1974) *Life Sci.* 15, 1401-1414.

Serum dopamine β -hydroxylase as an index of sympathetic function. [Minireview]

Geffen, L. (1974) *Life Sci.* 14, 1593-1604.

Catecholamine systems as the neural substrate for intracranial self-stimulation: a hypothesis.

German, D.C. & Bowden, D.M. (1974) *Brain Res.* 73, 381.

Present day achievements in the field of catecholamine biochemistry. [In Russian: English abstract]

Gorkin, V.Z. (1974) *Vopr.Med.Khim.* 20, 227.

Catecholamine metabolism in health and disease.

Hoeldtke, R. (1974) *Metabolism*, 23, 663.

Presynaptic regulation of catecholamine release. [Commentary]

Langer, S.Z. (1974) *Biochem.Pharmacol.* 23, 1793-1800.

Selective metabolic pathways to noradrenaline in the peripheral and in the central nervous system.

Langer, S.Z. (1974) *Med.Biol.* 52, 372.

The organization of the ascending catecholamine neuron systems in the rat brain, as revealed by the glyoxylic acid fluorescence method.

Lindvall, O. & Bjorklund, A. (1974) *Acta Physiol. Scand., Suppl.* 412, 48pp.

Symposium on catecholamines and their enzymes in the neuropathology of schizophrenia, May 1973.

Randrup, A. & others (1974) *J.Psychiat.Res.* 11, 1.

CELL STRUCTURE

See: CELLS AND CELL WALLS

CELLS AND CELL WALLS

See also: ALGAE MICRO-ORGANISMS
BACTERIA PLANTS AND PLANT
FUNGI PRODUCTS
LYMPHOCYTES PROTOZOA

Histochemical and electron microscopic observations on the development, neural control and function of the Paneth cells of the mouse.

Ahonen, A. (1973) *Acta Physiol.Scand., Suppl.* 398, 71pp.

Phosphorylation of DNA-binding nuclear acidic proteins and gene activation in the HeLa cell cycle.

Allfrey, V.G., Inoue, A., Karn, J., Johnson, E.M. & Vidali, G. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 785.

Comparative aspects of ultrastructure of female gamete.

Anderson, E. (1974) *Int.Rev.Cytol., Suppl.* 4, 1.

The structure, biosynthesis and function of teichoic acid.

Archibald, A.R. (1974) *Advan.Microbial Physiol.* 11, 53.

Proceedings of the second international symposium on cellular aspects of transplantation, June 1973, St. Paul, France.

Bach, F.H. & others (1973) *Transplant.Proc.* 5, 1501.

Molecular basis for functional disorders of phagocytes.

Baehner, R.L. (1974) *J.Pediat.* 84, 317.

Problem of germ cell determinants.

Beams, H.W. & Kessel, R.G. (1974) *Int.Rev.Cytol.* 39, 413.

The cell in medical science. Vol.I - The cell and its organelles.

Beck, F. & Lloyd, J.B., eds (1974) 366pp., Academic Press.

The lysis of the cell wall of yeasts.

Blechsmidt, D. & Tröger, R. (1974) *Z.Allg.Mikrobiol.* 14, 245-257.

Biochemistry of bacterial cell envelopes.

Braun, V. & Hantke, K. (1974) *Annu.Rev.Biochem.* 43, 89-121.

A method for synchronization of cell division and macrostome formation in the ciliate *Tetrahymena vorax*.

Buhse, jr, H.E. & Rasmussen, L. (1974) *C.R.Trav. Lab.Carlsberg*, 40, 59-67.

Progress in cytochemical differentiation of cellular infiltrates of the skin. [In German]

Burg, G. & Braun-Falco, O. (1974) *Hautarzt*, 25, 1.

The ultrastructure of the local cellular reaction to neoplasia.

Carr, I. & Underwood, J.C.E. (1974) *Int.Rev.Cytol.* 37, 329.

In search of the rules for nerve connections.

Chung, S.H. (1974) *cell*, 3, 201.

Structure and function of the cell envelope of Gram-negative bacteria.

Costerton, J.W., Ingram, J.M. & Cheng, K.-J. (1974) *Bacteriol.Rev.* 38, 87-110.

Control of expression of differentiated functions in somatic cell hybrids.

Davidson, R.L. (1974) In: Somatic cell hybridization (Davidson, R.L. & de la Cruz, F.F., eds) Raven Press, p.131.

Gene expression in somatic cell hybrids.

Davidson, R.L. (1974) *Annu.Rev.Genet.* 8, 195.

Recent advances in cytochemistry and ultrastructure of cytoplasmic inclusions in Ciliophora (protozoa).

Dutta, G.P. (1974) *Int.Rev.Cytol.* 39, 285.

Cellular selection and regulations in the immune response.

Edelman, G.M., ed. (1974) 287pp., Raven Press.

Proceedings of a Workshop-Conference on the genetic determinants and mechanisms of cell-mediated immune reactions, Feb. 26-March 2, 1973, London, England.

Festenstein, H., Démant, P. & others (1973) *Transplant.Proc.* 5, 1315.

Assembly of bacterial cell walls.

Fiedler, F. & Glaser, L. (1973) *Biochim.Biophys. Acta*, 300, 467.

Ageing in differentiated cells.

Franks, L.M. (1974) *Gerontologia - Basel*, 20, 51.

Fungal cell wall glycoproteins and peptidopolysaccharides.

Gander, J.E. (1974) *Annu.Rev.Microbiol.* 28, 103.

Molecular models and combinatorial principles in cell differentiation and morphogenesis.

Gierer, A. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 951.

Intracellular protein degradation in mammalian and bacterial cells.

Goldberg, A.L. & Dice, J.F. (1974) *Annu. Rev. Biochem.* 43, 835-869.

Regulation of granulopoiesis.

Golde, D.W. & Cline, M.J. (1974) *N. Engl. J. Med.* 291, 1388-1395.

Three-dimensional reconstruction from projections: A review of algorithms.

Gordon, R. & Herman, G.T. (1974) *Int. Rev. Cytol.* 38, 111.

Morphology, histochemistry, and biochemistry of human oogenesis and ovulation.

Guraya, S.S. (1974) *Int. Rev. Cytol.* 37, 121.

Molecular biology in a living cell.

Gurdon, J.B. (1974) *Nature*, 248, 772-776.

Cell separation by gradient centrifugation.

Harwood, R. (1974) *Int. Rev. Cytol.* 38, 369.

Mécanismes du vieillissement moléculaire et cellulaire. (Molecular and cellular mechanisms of aging). Colloque, Paris, décembre 1973.

Hayflick, L. & others (1973) 259pp., INSERM.

Interactions between oxidative metabolism and acid secretion in gastric mucosa.

Hersey, S.J. (1974) *Biochim. Biophys. Acta*, 344, 157.

The cell surface and malignant transformation.

Hough, P.V.C. (1974) *Annu. Rev. Med.* 25, 431.

Role of surface alterations in cell transformation: the importance of proteases and surface proteins.

Hynes, R.O. (1974) *Cell*, 1, 147.

The intestinal cell surface: some properties of normal, undifferentiated, and malignant cells.

[Basic review]

Isselbacher, K.J. (1974) *Ann. Intern. Med.* 81, 681.

Advances in cytology and genetics of bees.

Kerr, W.E. (1974) *Annu. Rev. Entomol.* 19, 253.

Steroid-cell interactions.

King, R.J.B. & Mainwaring, W.I.P. (1974) 458pp., Butterworth.

Golgi function and cell wall formation in the conjugates.

Lacalli, T. (1974) *Rev. Can. Biol.* 33, 125.

Cell recognition based on natural morphological nuclear markers.

Le Douarin, N. (1974) *Med. Biol.* 52, 281.

Programmed cell death. [Minireview]

Lockshin, R.A. & Beaulaton, J. (1974) *Life Sci.* 15, 1549-1566.

Regulators of cell division. A review. I. Endogenous mitotic inhibitors of hematopoietic cells.

Lozzio, B.B. (1973) *Exp. Hematol.* 1, 309.

Organization and communication in populations of normal and leukemic hemopoietic cells.

McCulloch, E.A., Mak, T.W., Price, G.B. & Till, J.E. (1974) *Biochim. Biophys. Acta*, 355, 260.

Third Engineering Foundation conference on Automatic Cytology.

Mayall, B.H., special ed. (1974) *J. Histochem. Cytochem.* 22, 451.

The cell cycle.

Mazia, D. (1974) *Sci. Amer.* 230, no. 1, 54-64.

Freezing injury and its prevention in living cells.

Merryman, H.T. (1974) *Annu. Rev. Biophys. Bioeng.* 3, 341.

In vitro malignant transformation of cells by chemical carcinogens.

Mishra, N.K. & di Mayorca, G. (1974) *Biochim. Biophys. Acta*, 355, 205.

Biochemistry of cell differentiation. Seventh FEBS meeting, Varna (Bulgaria), September 1971.

Monroy, A. & Tsanev, R., eds. (1973) *FEBS Symp.* 24, 191pp.

Cell surface contributions to the malignant process. [Invited review]

Nachbar, M.S., Oppenheim, J.D. & Aull, F. (1974) *Amer. J. Med. Sci.* 268, 122.

Renal pharmacology: comparative, developmental, and cellular aspects.

Natochin, Yu.V. (1974) *Annu. Rev. Pharmacol.* 14, 75.

Interactions of lectins with animal cell surfaces.

Nicolson, G.L. (1974) *Int. Rev. Cytol.* 39, 89.

The role of the cell surface in contact inhibition of cell division.

Noonan, K.D. & Burger, M.M. (1974) *Progr. Surf. Membrane Sci.* 8, 245.

Cytochemical studies of secretory and other granules associated with the endoplasmic reticulum in rat thyroid epithelial cells.

Novikoff, A.B., Novikoff, P.M., Ma, M., Woo-Yung Shin & Quintana, N. (1974) *Advan. Cytopharmacol.* 2, 349.

The role of divalent cations in cell adhesion.

Okada, T.S., Takeichi, M., Yasuda, K. & Ueda, M.J. (1974) *Advan. Biophys.* 6, 157.

Cell junctions and their development.

Overton, J. (1974) *Progr. Surf. Membrane Sci.* 8, 161.

The cytophysiology of thyroid cells.

Pantić, V.R. (1974) *Int. Rev. Cytol.* 38, 154.

Cyclic AMP and the transformation of fibroblasts.

Pastan, I. & Johnson, G.S. (1974) *Advan. Cancer Res.* 19, 303.

Actin and myosin and cell movement.

Pollard, T.D. & Weihing, R.R. (Adelman, M.R., referee) (1974) *CRC Crit. Rev. Biochem.* 2, 1-65.

Differentiation of eukaryotic cells in culture.

Prunieras, M., Robert, L. & Rosenfeld, C., eds (1973) 299pp., INSERM.

Are cell kinetic data relevant for the design of tumour chemotherapy schedules?

van Putten, L.M. (1974) *Cell Tissue Kinet.* 7, 493.

Tumor cell surfaces: general alterations detected by agglutinins.

Rapin, A.M.C. & Burger, M.M. (1974) *Advan. Cancer Res.* 20, 1.

- Das Reaktionsmuster der Leber-Peroxisomen (= Microbodies) im Verlaufe einer Zellschädigung. The reaction pattern of liver-peroxisomes (= microbodies) during cell injury.
Riede, U.N. & Rohr, H.P. (1974) *Beitr.Pathol.* 151, 111.
- Parois, membranes et division cellulaire. Colloque international, Marseille, mai 1974.
Rogers, J. & others (1974) *Ann.Microbiol. -Inst. Pasteur*, 125B, 133.
- A molecular model for cell interactions.
Roth, S. (1973) *Quart.Rev.Biol.* 48, 541-563.
- The zymogen granule: intragranular organization and its functional significance.
Rothman, S.S., Burwen, S. & Liebow, C. (1974) *Advan.Cytopharmacol.* 2, 341.
- Human genetic linkage and gene mapping by somatic cell genetics.
Ruddle, F.H. (1974) In: Somatic cell hybridization (Davidson, R.L. & de la Cruz, F.F., eds) Raven Press, p.1.
- Hybrid cells and human genes.
Ruddle, F.H. & Kucherlapati, R.S. (1974) *Sci.Amer.* 231, no.1, 36-44.
- The resting cell: a chemotherapeutic problem.
Sama, G. (1974) *Biomedicine*, 20, 323, 384.
- How cilia move.
Satir, P. (1974) *Sci.Amer.* 231, no.4, 44-52.
- The ageing, growth and death of cells.
Sheldrake, A.R. (1974) *Nature*, 250, 381-385.
- Virus-cell interactions and viral antimetabolites. Seventh FEBS meeting, Varna (Bulgaria), September 1971.
Shugar, D., ed. (1972) *FEBS Symp.* 22, 231pp.
- The chemical composition of algal cell walls (210 references).
Siegel, S.M. & Siegel, B.Z. (Ponnamperuma, C., referee) (1973) *CRC Crit.Rev.Microbiol.* 3, 1.
- Edward A.Dunlop lecture: Cell biology and the repair of articular cartilage.
Sokoloff, L. (1974) *J.Rheumatol.* 1, 9.
- Reconsideration of the ultrastructural basis of cardiac length-tension relations.
Sonnenblick, E.H. & Skelton, C.L. (1974) *Circ.Res.* 35, 517.
- Structure and development of renal glomerulus as revealed by scanning electron microscopy.
Spinelli, F. (1974) *Int.Rev.Cytol.* 39, 345.
- Structure and function of intercellular junctions.
Staehelein, L.A. (1974) *Int.Rev.Cytol.* 39, 191.
- Cellular mechanisms of urinary acidification.
Steinmetz, P.R. (1974) *Physiol.Rev.* 54, 890.
- Phagocytosis.
Stossel, T.P. (1974) *N.Engl.J.Med.* 290, 717-723; 774-780; 833-839.
- Repair of DNA in mammalian cells. [Minireview]
Strauss, B.S. (1974) *Life Sci.* 15, 1685-1694.
- The properties of adrenal zona glomerulosa cells after purification by gravitational sedimentation.
Tait, J.F., Tait, S.A.S., Gould, R.P. & Mee, M.S.R. (1974) *Proc.Roy.Soc.London Ser.B*, 185, 375-407.
- Symposium: Meiosis.
Taylor, J.H., chairman (1974) *Genetics*, 78, 187-235.
- Cortical control of cell division.
de Terra, N. (1974) *Science*, 184, 530-537.
- Gene expression in animal cells.
Thompson, E.B. (1973) *Curr.Top.Biochem.* 187.
- Role of rosette-forming cells in the immune response. (Survey of the literature) [In Russian: English abstract]
Tischenko, E.V. & Stenina, M.A. (1974) *Zh.Mikrobiol Epidemiol.Immunobiol.* No.7, 112.
- The biochemistry of cytodifferentiation.
Truman, D.E.S. (1974) Blackwell Scientific.
- The cell surface in cell interactions.
Turner, R.S. & Burger, M.M. (1973) *Ergeb.Physiol. Biol.Chem.Exp.Pharmacol.* 68, 121-155.
- Alpha- and beta-cell interrelationships in health and disease.
Unger, R.H. (1974) *Metabolism*, 23, 581.
- Survival and aging of spermatozoa: a review.
Vander Vliet, W.L. & Hafez, E.S.F. (1974) *Amer.J. Obstet.Gynecol.* 118, 1006.
- Effector cells in cell-mediated immunity.
Wagner, H. & others (1973) *Transplant.Rev.* 17, 3.
- Cellular responses to axotomy and to related procedures.
Watson, W.E. (1974) *Brit.Med.Bull.* 30, 112-115.
- Cellular pharmacology of lanthanum.
Weiss, G.B. (1974) *Annu.Rev.Pharmacol.* 14, 343.
- Biochemische Diagnose der Mucopolysaccharid-Speicherkrankheiten in der Zellkultur. (Biochemical diagnosis of mucopolysaccharidoses in cell culture) [In German: English abstract]
Wendel, U., Rudiger, H.W. & Passarge, E. (1974) *Monatsschr.Kinderheilk.* 122, 23.
- The use of protoplasts and separated cells in plant virus research.
Zaitlin, M. & Beachy, R.N. (1974) *Advan.Virus Res.* 19, 1.

CHEMOTAXIS

- Chemotaxis as a model for sensory systems.
Koshland, jr, D.E. (1974) *FEBS Lett.* 40, Suppl. S3-S9.

CHEMOTHERAPY

See: DRUGS AND DRUG METABOLISM

CHLOROPLASTS

- Chloroplast structure and function. A report of the British Photobiology Society meeting held in London 19 October 1973. [Meeting Report]
Barber, J. (1974) *FEBS Lett.* 38, 243-246.

Lamellar structure and composition of chloroplasts in relation to photosynthetic electron transfer.

Bishop, D.G. (1974) *Photochem. Photobiol.* 20, 281.

Genetic analysis of the chloroplast and mitochondrial genomes.

Gillham, N.W. (1974) *Annu. Rev. Genet.* 8, 347.

Metabolite exchange between chloroplasts and cytoplasm.

Heber, U. (1974) *Annu. Rev. Plant Physiol.* 25, 393.

CHOLERA

Genetic hybridization in *Vibrio cholerae* — Oration.

Bhaskaran, K. (1974) *Indian J. Med. Res.* 62, 807.

CHOLESTEROL

The pathogenesis of hypercholesterolemia.

Bortz, W.M. (1974) *Ann. Intern. Med.* 80, 738.

Recent research on lecithin:cholesterol acetyltransferase.

Gjone, E. & Norum, K.R. (1974) *Scand. J. Clin. Lab. Invest.* 33, Suppl. 137.

The role of membrane lipid fatty acids and cholesterol in the structure and function of mycoplasma membranes. [In English and Spanish, followed by 5 reprinted articles]

McElhaney, R.N. (1974) *PAABS Rev.* 3, 753-833.

Effect of diet on activity of enzymes involved in fatty acid and cholesterol synthesis.

Romsos, D.R. & Leveille, G.A. (1974) *Advan. Lipid Res.* 12, 97.

Lecithinabbau und Cholesterinveresterung im Humanserum. Neuere Erkenntnisse über die Stellung der Lecithin-Cholesterin-Acyltransferase im Fettstoffwechsel unter normalen und pathologischen Bedingungen. Lecithin degradation and esterification of cholesterol in human serum. Further results on the role of lecithin-cholesterol-acyltransferase in lipid metabolism under normal and pathological conditions.

Scherer, R. (1974) *Klin. Wochenschr.* 52, 203.

CHROMATIN

Chromatin template activity and chromatin structure.

Axel, R., Cedar, H. & Felsenfeld, G. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 773.

Organization, transcription and regulation in the animal genome.

Davidson, E.H. & Britten, R.J. (1973) *Quart. Rev. Biol.* 48, 565-613.

A prologue to the study of the non-histone chromosomal proteins.

Elgin, S.C.R., Boyd, J.B., Hood, L.E., Wray, W. & Wu, F.C. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 821.

Chromatin, and gene regulation in eukaryotic cells at the transcriptional level.

Hall, R.H. & Monahan, J.J. (Wang, T.Y., referee) (1974) *CRC Crit. Rev. Biochem.* 2, 67-112.

Ultrastructure of active eukaryotic genomes.

Hamkalo, B.A., Miller, jr, O.L. & Bakken, A.H. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 915.

An examination of the one cistron:one chromomere concept.

Judd, B.H. & Young, M.W. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 573.

The one band — one gene hypothesis: evidence from a cytogenetic analysis of mutant and nonmutant rearrangement breakpoints in *Drosophila melanogaster*.

Lefevre, jr, G. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 591.

The molecular organization of the chromomeres of acheta involved in ribosomal DNA amplification.

Lima-de-Faria, A. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 559.

Transcription and chromatin structure.

McCarthy, B.J., Nishiura, J.T., Doenecke, D., Nasser, D.S. & Johnson, C.B. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 763.

Separation of transcribable and repressed chromatin.

Simpson, R.T. (1973) *Curr. Top. Biochem.* 135.

Organization of chromomeres.

Sorsa, V. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 601.

Androgen receptors in nonhistone protein fractions of prostatic chromatin.

Wang, T.Y. & Nyberg, L.M. (1974) *Int. Rev. Cytol.* 39, 1.

The assembly of newly replicated DNA into chromatin.

Weintraub, H. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 247.

Isolation of mammalian heterochromatin and euchromatin.

Yasmineh, W.G. & Yunis, J.J. (1974) *Methods Cell Biol.* 8, 151.

A possible role of "inert" heterochromatin in cell differentiation. Action of and competition for "locking molecules".

Zuckerkindl, E. (1974) *Biochimie*, 56, 937.

CHROMATOGRAPHY

Identification of gas chromatographic zones in practical gas-liquid chromatography. Influence of adsorption on relative retention.

Berezkin, V.G. (1974) *J. Chromatogr.* 98, 477.

Gas chromatographic measurement of transport properties.

Choudhary, V.R. (1974) *J. Chromatogr.* 98, 491.

Immobilized biochemicals and affinity chromatography.

Dunlap, R.B., ed. (1974) 377pp., Plenum Press.

Applications of gas-liquid chromatography to carbohydrates: Part II.

Dutton, G.G.S. (1974) *Advan. Carbohydr. Chem.* 30, 10.

- Fourth international symposium on advances and utilization of chromatography, Bratislava, Czechoslovakia, September 1973.
 Ettre, L.S. & others (1974) *J.Chromatogr.* 91, 1.
- Chromatography of the 1,4-benzodiazepines.
 Hailey, D.M. (1974) *J.Chromatogr.* 98, 527.
- Chromatographic determination of Hb A₂.
 Huisman, T.H.J. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 57.
- Chromatography of hemoglobin variants.
 Huisman, T.H.J. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 71.
- Third symposium on ion exchange, Balatonfüred (Hungary), May 1974.
 Inczédy, J. & others (1974) *J.Chromatogr.* 102, 1.
- Column chromatography of hemoglobin peptides.
 Jones, R.T. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 99.
- RNA fractionation on hydroxyapatite columns.
 Kothari, R.M. & Shankar, V. (1974) *J.Chromatogr.* 98, 449.
- Determination of second-interaction virial coefficients by gas-liquid chromatography.
 Laub, R.J. & Pecsok, R.L. (1974) *J.Chromatogr.* 98, 511.
- Ninth international symposium on advances in chromatography, Houston, Texas, November 1974.
 Lovelock, J.E. & others (1974) *J.Chromatogr.* 99, 3.
- Utilization of gas-liquid chromatography coupled with chemical ionization and electron impact mass spectrometry for the investigation of potentially hazardous environmental agents and their metabolites.
 Oswald, E.O., Albro, P.W. & McKinney, J.D. (1974) *J.Chromatogr.* 98, 363.
- Electron capture detection in gas chromatography.
 Pellizzari, E.D. (1974) *J.Chromatogr.* 98, 323.
- Isoelectric focusing in gels.
 Righetti, P.G. & Drysdale, J.W. (1974) *J.Chromatogr.* 98, 271.
- Quantitative inorganic analysis by gas chromatography. A review.
 Rodriguez-Vázquez, J.A. (1974) *Anal.Chim.Acta*, 73, 1.
- High-pressure ion exchange chromatography.
 Scott, C.D. (1974) *Science*, 186, 226-233.
- Stable, high capacity and non charged agarose derivatives for immobilization of biologically active compounds and for affinity chromatography.
 Wilchek, M. & Miron, T. (1974) *Mol.Cell.Biochem.* 4, 181.
- Laser microirradiation of chromosomes.
 Berns, M.W. (1973) *Cold Spring Harb.Symp.Quant. Biol.* 38, 165.
- Acridine orange and the investigation of chromosome banding.
 Bobrow, M. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 435.
- Functional organization of the mammalian genome.
 Bonner, J., Garrard, W.T., Gottesfeld, J., Holmes, D.S., Sevall, J.S. & Wilkes, M. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 303.
- The XYY chromosome male - or syndrome.
 Borgeonkar, D.S. & Shah, S.A. (1974) *Progr.Med. Genet.* 10, 135.
- Chromosomal errors in relation to reproductive failure. Proc. INSERM Symp., Paris, 1973.
 Boué, A. & Thibault, C., eds (1974) 423pp., INSERM.
- Some aspects of chromosome structure in eukaryotes.
 Comings, D.E. & Okada, T.A. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 145.
- Measurements of mammalian cellular DNA and its localization in chromosomes.
 Deaven, L.L. & Petersen, D.F. (1974) *Methods Cell Biol.* 8, 179.
- Electron microscopic studies on the folded chromosome of *Escherichia coli*.
 Delius, H. & Worcel, A. (1973) *Cold Spring Harb. Symp.Quant.Biol.* 38, 53.
- Chromosome products in *Chironomus tentans* salivary gland cells.
 Edström, J.E. & Tanguay, R. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 693.
- On the structural organization of the transcriptional unit in animal chromosomes.
 Georgiev, G.P., Varshavsky, A.J., Ryskov, A.P. & Church, R.B. (1973) *Cold Spring Harb.Symp.Quant. Biol.* 38, 869.
- The synaptonemal complex in homologous and nonhomologous pairing of chromosomes.
 Gillies, C.B., Rasmussen, S.W. & von Wettstein, D. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 117.
- Chromosome puffs and gene expression in polytene cells.
 Grossbach, U. (1973) *Cold Spring Harb.Symp.Quant. Biol.* 38, 619.
- Bulk isolation of metaphase chromosomes from an In Vitro cell line of *Drosophila melanogaster*.
 Hanson, C.V. & Hearst, J.E. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 341.
- Structure and function of the Y chromosome of *Drosophila hydei*.
 Hennig, W., Meyer, G.F., Hennig, I. & Leoncini, O. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 673.
- Local structural variations of the Y chromosome of *Drosophila hydei* and their correlation to genetic activity.
 Hess, O. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 663.
- The integration of supernumerary chromosomes into the orthopteran genome.
 Hewitt, G.M. (1973) *Cold Spring Harb.Symp.Quant. Biol.* 38, 183.

CHROMOSOMES

- Temporal control of puffing activity in polytene chromosomes.
 Ashburner, M., Chihara, C., Meltzer, P. & Richards, G. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 655.
- Non-histone chromosomal proteins in normal and abnormal growth. [Minireview]
 Baserga, R. (1974) *Life Sci.* 15, 1057-1072.

RNA and DNA forms of the genetic material of C-type viruses and the integrated state of the DNA form in the cellular chromosome.

Hill, M. & Hillova, J. (1974) *Biochim.Biophys.Acta*, 355, 7.

Analysis of a whole chromosome in drosophila.

Hochman, B. (1973) *Cold Spring Harb.Symp.Quant. Biol.* 38, 581.

Origin of mRNA in HeLa cells and the implications for chromosome structure.

Jelinek, W., Molloy, G., Salditt, M., Wall, R., Sheiness, D. & Darnell, jr, J. E. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 891.

Chromosomal proteins.

Johnson, J.D., Pouvas, A.S. & Bonner, J. (1974) *Int.Rev.Cytol., Suppl.* 4, 273.

On the nature of chromosome-sized DNA molecules.

Kavenoff, R., Klotz, L.C. & Zimm, B.H. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 1.

On the nature of heteroploidy.

Kraemer, P.M., Deaven, L.L., Crissman, H.A., Steinkamp, J.A. & Petersen, D.F. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 133.

Repeated nucleotide sequences in a single puff of *Chironomus tentans* polytene chromosomes.

Lambert, B. (1973) *Cold Spring Harb.Symp.Quant. Biol.* 38, 637.

The relationship between genes and polytene chromosome bands.

Lefevre, jr, G. (1974) *Annu.Rev.Genet.* 8, 51.

Chromosomal analogues: long-range order in Ψ -condensed DNA.

Lerman, L.S. (1973) *Cold Spring Harb.Symp.Quant. Biol.* 38, 59.

Enzymatic modifications and their possible roles in regulating the binding of basic proteins to DNA and in controlling chromosomal structure.

Louie, A.J., Candido, E.P.M. & Dixon, G.H. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 803.

Review lecture. Mechanisms and evolutionary origins of variable X-chromosome activity in mammals.

Lyon, M.F. (1974) *Proc.Roy.Soc.London Ser.B*, 187, 243-268.

Symposium: Gene and chromosome inactivation.

Lyon, M.F., chairman (1974) *Genetics*, 78, 305-349.

Chromosomal abnormality and perinatal death. (Occasional survey)

Machin, G.A. (1974) *Lancet*, I, 549.

Quantitative electron microscopy of chromosome organization at meiotic prophase.

Moen, P.B. (1973) *Cold Spring Harb.Symp.Quant. Biol.* 38, 99.

Accessory chromosomes.

Müntzing, A. (1974) *Annu.Rev.Genet.* 8, 243.

The *Phaseolus* suspensor and its polytene chromosomes.

Nagl, W. (1974) *Z.Pflanzenphysiol.* 73, 1.

Triploidy in man. Cytogenetical and clinical aspects.

Niebuhr, E. (1974) *Humangenetik*, 21, 103.

Localization of repeated DNA sequences in *Xenopus* chromosomes.

Pardue, M.L. (1973) *Cold Spring Harb.Symp.Quant. Biol.* 38, 475

The organization of highly repeated DNA sequences in *Drosophila melanogaster* chromosomes.

Peacock, W.J., Brutlag, D., Goldring, E., Appels, R., Hinton, C.W. & Lindsley, D.L. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 405.

Chromosome structure in ciliated protozoans.

Prescott, D.M. & Murti, K.G. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 609.

Nuclear DNA variation due to B chromosomes.

Rees, H. & Hutchinson, J. (1973) *Cold Spring Harb. Symp.Quant.Biol.* 38, 175.

Repetitive DNA in polytene chromosomes of *Drosophila melanogaster*.

Rudkin, G.T. & Tartof, K.D. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 397.

Organization of human mitotic chromosomes.

Ruzicka, F. (1974) *Humangenetik*, 23, 1.

Genetic organization and regulation of the drosophila Y chromosome.

Sanders, T.G. & Ayles, G.B. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 685.

Banding patterns in chromosomes.

Schnedl, W. (1974) *Int.Rev.Cytol., Suppl.* 4, 237.

The behavior of the XY pair in mammals.

Solari, A.J. (1974) *Int.Rev.cytol.* 38, 273.

The phenomenon of premature chromosome condensation: its relevance to basic and applied research.

Sperling, K. & Rao, P.N. (1974) *Humangenetik*, 23, 235.

Biochemical and morphological studies of partially purified Chinese hamster chromosomes.

Stubblefield, E. & Wray, W. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 835.

Chromosomes 1973: organization of genetic material in eukaryotes - progress and prospects. [Summary]

Swift, H. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 963.

Units of DNA replication in chromosomes of eukaryotes.

Taylor, J.H. (1974) *Int.Rev.Cytol.* 37, 1.

Abnormal X chromosomes in man: origin, behavior and effects.

Therman, E. & Patau, K. (1974) *Humangenetik*, 25, 1.

Cyclodromes and palindromes in chromosomes.

Thomas, jr, C.A., Pyeritz, R.E., Wilson, D.A., Dancis, B.M., Lee, C.S., Bick, M.D., Huang, H.L. & Zimm, B.H. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 353.

Fluorescent probes of chromosomal DNA structure: three classes of acridines.

Weisblum, B. (1973) *Cold Spring Harb.Symp.Quant. Biol.* 38, 441.

Studies on the folded chromosome of *Escherichia coli*.

Worcel, A., Burgi, E., Robinton, J. & Carlson, C.L. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 43.

COLLAGEN

The biosynthesis of collagen.

Bornstein, P. (1974) *Annu.Rev.Biochem.* 43, 567-603.

Biosynthesis and metabolism of collagen and its role in tissue repair processes.

Shoshan, S. & Gross, J. (1974) *Isr.J.Med.Sci.* 10, 537.

Collagen as a biomaterial.

Stenzel, K.H., Miyata, T. & Rubin, A.L. (1974) *Annu. Rev.Biophys.Bioeng.* 3, 231.

Biochemische Prozesse bei der Auslösung der Blutgerinnung durch Kollagen. Biochemical mechanisms in inducing of coagulation by collagen.

Wuppermann, Th. & Hörmann, H. (1974) *Klin.Wochenschr.* 52, 409.

COMPUTERS

Conference on the computer as a research tool in the life sciences.

Lindberg, D.A.B., conference chairman (1974) *Fed. Proc.* 33, 2311.

CONNECTIVE TISSUE

Characterization of amyloid.

Glenner, G.G. & Terry, W.T. (1974) *Annu.Rev.Med.* 25, 131.

Prostheses and tissue: The interface problem. Fifth international biomaterials symposium, Clemson, South Carolina, 1973 - Part 2.

Hulbert, S.F., Levine, S.N. & Moyle, D.D., eds (1974) *J.Biomed.Mater.Res.* 8, 227.

COPPER

A review of the health hazards from copper exposure.

Cohen, S.R. (1974) *J.Occup.Med.* 16, 621-624.

Symposium on copper metabolism and Wilson's Disease.

Goldstein, N.P. & others (1974) *Mayo Clin.Proc.* 49, 361.

CYCLIC ADENOSINE MONOPHOSPHATE

See: ADENOSINE MONOPHOSPHATE

See also: NUCLEOTIDES

CYCLIC GUANOSINE MONOPHOSPHATE

See: GUANOSINE MONOPHOSPHATE

See also: NUCLEOTIDES

CYTOCHROMES

Cytochrome c oxidase: some current biochemical and biophysical problems.

Malmström, B.G. (1973) *Quart.Rev.Biophys.* 6, 389.

Cytochrome c binding to enzymes and membranes.

Nicholls, P. (1974) *Biochim.Biophys.Acta*, 346, 261.

Cytochrome P-450 monooxygenases in drug metabolism.

Tomeszewski, J.E., Jerina, D.M. & Daly, J.W. (1974) *Annu.Rep.Med.Chem.* 7, 290.

DIABETES MELLITUS

Diabetes mellitus.

Chang, A.Y. (1974) *Annu.Rep.Med.Chem.* 7, 182.

Third Brook Lodge Workshop on spontaneous diabetes in laboratory animals.

Gerritsen, G.C. & others (1974) *Diabetologia*, 10, Suppl. 491.

Diabetes and skin - a review.

Haroon, T.S. (1974) *Scot.Med.J.* 19, 257.

Banting memorial lecture. Glucose tolerance and the diabetic population.

Malins, J.M. (1974) *Postgrad.Med.J.* 50, Suppl.3, 529.

Diabetes and pregnancy: in honour of Jørgen Pedersen.

Mølsted-Pedersen, L. & Osler, M., eds (1974) *Acta Endocrinol., Suppl.* 182.

DIFFERENTIATION

See: GROWTH AND DEVELOPMENT

DNA

See also: CHROMATIN
GENETICS

Phosphorylation of DNA-binding nuclear acidic proteins and gene activation in the HeLa cell cycle.

Allfrey, V.G., Inoue, A., Karon, J., Johnson, E.M. & Vidali, G. (1973) *Cold Spring Harb.Symp.Quant. Biol.* 38, 785.

DNA modification and restriction.

Arber, W. (1974) *Progr.Nucleic Acid Res.* 14, 1.

The temporal order of replication of some DNA cistrons.

Balazs, I., Brown, E.H. & Schildkraut, C.L. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 239.

DNA sequences neighboring the duck hemoglobin genes.

Bishop, J.O. & Freeman, K.B. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 707.

The evolution of satellite DNA in *Drosophila virilis*.

Blumenfeld, M. (1973) *Cold Spring Harb.Symp.Quant. Biol.* 38, 423.

The units of DNA replication in *Drosophila melanogaster* chromosomes.

Blumenthal, A.B., Kriegstein, H.J. & Hogness, D.S. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 205.

Cleavage of mouse DNA by a restriction enzyme as a clue to the arrangement of genes.

Botchan, M., McKenna, G. & Sharp, P.A. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 383.

Recent DNA fiber diffraction studies and their implications for DNA recognition.

Bram, S. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 83.

The structure and evolution of ribosomal and 5 S DNAs in *Xenopus laevis* and *Xenopus mulleri*.

Brown, D.D. & Sugimoto, K. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 501.

DNA replication in the chromosomes of eukaryotes.

Callan, H.G. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 195.

Excision repair of DNA base damage. [Minireview]

Cerutti, P.A. (1974) *Life Sci.* 15, 1567-1576.

The double helix: a personal view.

Crick, F. (1974) *Nature*, 248, 766-769.

Studies on nuclear and mitochondrial DNA of *Saccharomyces cerevisiae*.

Cryer, D.R., Goldthwaite, C.D., Zinker, S., Lam, K.-B., Storm, E., Hirschberg, R., Blamire, J., Finkelstein, D.B. & Marmur, J. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 17.

The transcription unit in Balbiani ring 2 of *Chironomus tentans*.

Daneholt, B. & Hosick, H. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 629.

Arrangement and characterization of repetitive sequence elements in animal DNAs.

Davidson, E.H., Graham, D.E., Neufeld, B.R., Chamberlin, M.E., Amenson, C.S., Hough, B.R. & Britten, R.J. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 295.

Measurements of mammalian cellular DNA and its localization in chromosomes.

Deaven, L.L. & Petersen, D.F. (1974) *Methods Cell Biol.* 8, 179.

Immunoglobulin genes: a test of somatic vs. germ line hypothesis by RNA/DNA hybridization.

Delovitch, T. & Baglioni, C. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 739.

Quantitative constraints in the arrangement of human DNA.

DuPraw, E.J. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 87.

Genetics of DNA tumor viruses.

Eckhart, W. (1974) *Annu. Rev. Genet.* 8, 301.

Conformational changes in DNA molecules.

Frank-Kamenetskii, M.D. & Lazurkin, Yu.S. (1974) *Annu. Rev. Biophys. Bioeng.* 3, 127.

The satellite DNAs of *Drosophila virilis*.

Gall, J.G., Cohen, E.H. & Atherton, D.D. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 417.

DNA polymerases II and III of *Escherichia coli*.

Gefter, M.L. (1974) *Progr. Nucleic Acid Res.* 14, 101.

Sequences of controlling regions of the lactose operon.

Gilbert, W., Maizels, N. & Maxam, A. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 845.

RNA-directed DNA polymerase - properties and functions in oncogenic RNA viruses and cells.

Green, M. & Gerard, G.F. (1974) *Progr. Nucleic Acid Res.* 14, 188.

Characterization of the rapidly renaturing sequences in the main CsCl density bands of drosophila, mouse, and human DNA.

Hearst, J.E., Cech, T.R., Marx, K.A., Rosenfeld, A. & Allen, J.R. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 329.

RNA and DNA forms of the genetic material of C-type viruses and the integrated state of the DNA form in the cellular chromosome.

Hill, M. & Hillova, J. (1974) *Biochim. Biophys. Acta*, 355, 7.

The nucleolus and the rolling circle.

Hourcade, D., Dressler, D. & Wolfson, J. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 537.

Discontinuous DNA synthesis in mammalian cells.

Huberman, J.A. & Horwitz, H. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 233.

The replication and structure of mitochondrial DNA in animal cells.

Kasamatsu, H., Grossman, L.I., Robberson, D.L., Watson, R. & Vinograd, J. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 281.

Replication of circular DNA in eukaryotic cells.

Kasamatsu, H. & Vinograd, J. (1974) *Annu. Rev. Biochem.* 43, 695-719.

On the nature of chromosome-sized DNA molecules.

Kavenoff, R., Klotz, L.C. & Zimm, B.H. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 1.

Rosalind Franklin and the double helix.

Klug, A. (1974) *Nature*, 248, 787-788.

Mechanism and regulation of DNA replication. Proceedings of two NATO Advanced Study Institutes.

Kolber, A.R. & Kohiyama, M., eds (1974) 459pp., Plenum Press.

On the nature of heteroploidy,

Kraemer, P.M., Deaven, L.L., Crissman, H.A., Steinkamp, J.A. & Petersen, D.F. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 133.

Organization and transcription of DNA in chromosomes and mitochondria of drosophila.

Laird, C.D., Chooi, W.Y., Cohen, E.H., Dickson, E., Hutchinson, N. & Turner, S.H. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 311.

Repeated nucleotide sequences in a single puff of *Chironomus tentans* polytene chromosomes.

Lambert, B. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 637.

Postreplication repair of DNA in mammalian cells. [Minireview]

Lehmann, A.R. (1974) *Life Sci.* 15, 2005-2016.

Chromosomal analogues: long-range order in Ψ -condensed DNA.

Lerman, L.S. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 59.

The replication of papovavirus DNA.

Levine, A.J. (1974) *Progr. Med. Virol.* 17, 1.

- Sequence organization of eucaryotic DNA: defining the unit of gene expression.
Lewin, B. (1974) *Cell*, 1, 107.
- Interaction of regulator proteins with recognition sequences of DNA.
Lewin, B. (1974) *Cell*, 2, 1.
- The molecular organization of the chromomeres of acheta involved in ribosomal DNA amplification.
Lima-de-Faria, A. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 559.
- The length of fibroin structural gene sequences in *Bombyx mori* DNA.
Lizardi, P.M. & Brown, D.D. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 701.
- Enzymatic modifications and their possible roles in regulating the binding of basic proteins to DNA and in controlling chromosomal structure.
Louie, A.J., Candido, E.P.M. & Dixon, G.H. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 803.
- Control elements in the DNA of bacteriophage λ .
Maniatis, T., Ptashne, M. & Maurer, R. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 857.
- Deoxyribonucleotide synthesis and DNA in brain.
Millard, S.A. (1974) *Rev. Neurosci.* 1, 115.
- Relationships among RNA-directed DNA-polymerase activities of avian viruses and chicken cells.
Mizutani, S., Kang, C.-Y. & Temin, H.M. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 289.
- The primary structure of DNA.
Murray, K. & Old, R.W. (1974) *Progr. Nucleic Acid Res.* 14, 117.
- DNA before Watson-Crick.
Olby, R. (1974) *Nature*, 248, 782-785.
- Localization of repeated DNA sequences in *Xenopus* chromosomes.
Pardue, M.L. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 475.
- The organization of highly repeated DNA sequences in *Drosophila melanogaster* chromosomes.
Peacock, W.J., Brutlag, D., Goldring, E., Appels, R., Hinton, C.W. & Lindsley, D.L. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 405.
- Yeast chromosomal DNA: size, structure, and replication.
Petes, T.D., Newlon, C.S., Byers, B. & Fangman, W.L. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 9.
- RNA molecules bound to the folded bacterial genome stabilize DNA folds and segregate domains of super-coiling.
Pettijohn, D.E. & Hecht, R. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 31.
- Nuclear DNA variation due to B chromosomes.
Rees, H. & Hutchinson, J. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 175.
- On the cell stage of X-Y recombination during rDNA magnification in *drosophila*.
Ritossa, F., Scalenghe, F., Di Turi, N. & Contini, A.M. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 483.
- Repetitive DNA in polytene chromosomes of *Drosophila melanogaster*.
Rudkin, G.T. & Tartof, K.D. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 397.
- DNA sequencing techniques.
Salser, W.A. (1974) *Annu. Rev. Biochem.* 43, 923-965.
- The mechanism of SV 40 DNA replication.
Salzman, N.P., Fareed, G.C., Sebring, E.D. & Thoren, M.M. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 257.
- Human repetitious DNA.
Saunders, G.F. (1974) *Advan. Biol. Med. Phys.* 15, 19.
- Repetitive sequences in isolated Thomas circles from *Drosophila melanogaster*.
Schachat, F.H. & Hogness, D.S. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 371.
- Control of DNA metabolism and chemotherapy.
Skoog, K.L. & others (1974) *Advan. Enzyme Regul.* 12, 345-372.
- Agents which inhibit reverse transcriptases. [Mini-review]
Smith, R.G. & Gallo, R.C. (1974) *Life Sci.* 15, 1711-1730.
- How actinomycin binds to DNA.
Sobell, H.M. (1974) *Sci. Amer.* 231, no. 2, 82-91.
- The action of a restriction endonuclease on higher organism DNA.
Southern, E.M. & Roizes, G. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 429.
- Repair of DNA in mammalian cells. [Minireview]
Strauss, B.S. (1974) *Life Sci.* 15, 1685-1694.
- Inhibitors of RNA and DNA biosynthesis. [Minireview]
Sung, S.-C. (1974) *Life Sci.* 15, 359-369.
- Unequal mitotic sister chromatid exchange and disproportionate replication as mechanisms regulating ribosomal RNA gene redundancy.
Tartof, K.D. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 491.
- Units of DNA replication in chromosomes of eukaryotes
Taylor, J.H. (1974) *Int. Rev. Cytol.* 37, 1.
- Functional subunits of chromosomal DNA from higher eukaryotes.
Taylor, J.H., Wu, M. & Erickson, L.C. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 225.
- The rolling helix: a model for the eukaryotic gene?
Thomas, jr, C.A. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 347.
- Cyclodromes and palindromes in chromosomes.
Thomas, jr, C.A., Pyeritz, R.E., Wilson, D.A., Dancis, B.M., Lee, C.S., Bick, M.D., Huang, H.L. & Zimm, B.H. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 353.
- The synthesis of amplified ribosomal DNA.
Tocchini-Valentini, G.P., Mahdavi, V., Brown, R. & Crippa, M. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 551.
- Methods of separation of deoxyribonucleic acids.
Toutain, D., Guérineau, M. & Paoletti, J. (1974) *Pathol. Biol. Semaine Hôp.* 22, 155.

Monofunctional alkylating agents and apurinic sites in DNA.

Verly, W.G. (1974) *Biochem. Pharmacol.* 23, 3.

The assembly of newly replicated DNA into chromatin.

Weintraub, H. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 247.

Fluorescent probes of chromosomal DNA structure: three classes of acridines.

Weisblum, B. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 441.

RNA-dependent DNA polymerases in animal cells: a question. [In English and Spanish, followed by 6 reprinted articles]

Weissbach, A. (1974) *PAABS Rev.* 3, 167-208.

Replication of mitochondrial DNA: replicative forms of molecules from rat tissues and evidence for discontinuous replication.

Wolstenholme, D.R., Koike, K. & Cochran-Fouts, P. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 267.

Studies on the folded chromosome of *Escherichia coli*.

Worcel, A., Burgi, E., Robinton, J. & Carlson, C.L. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 43.

The electron microscopy of DNA.

Younghusband, H.B. & Inman, R.B. (1974) *Annu. Rev. Biochem.* 43, 605-619.

DRUGS AND DRUG METABOLISM

Symposium: Effect of drugs on lipid metabolism.

Aftergood, L. & others (1974) *Lipids*, 9, 91-134.

Cyclic nucleotides and drug discovery.

Amer, M.S. & McKinney, G.R. (1974) *Annu. Rep. Med. Chem.* 9, 203.

Contrôle chimique et physico-chimique des médicaments.

Baehler, B. (1974) *Pharm. Acta Helv.* 49, 153.

Progress in *Cannabis* research, 1972.

Bailey, K. (1974) *Can. J. Pharm. Sci.* 9, 1.

Drugs affecting movement disorders.

Barbeau, A. (1974) *Annu. Rev. Pharmacol.* 14, 91.

Interactions between levodopa and other drugs: significance in the treatment of Parkinson's disease.

Bianchine, J.R. & Sunyapridakul, L. (1973) *Drugs*, 6, 364-388.

Anti-aging drugs.

Bindra, J.S. (1974) *Annu. Rep. Med. Chem.* 9, 214.

Antineoplastic agents.

Bloch, A. (1974) *Annu. Rep. Med. Chem.* 7, 139.

Proceedings of the Workshop on intermittent drug therapy and immunological implications in antituberculous treatment with rifampicin, Oct. 1972, Stockholm.

Borman, G., Nilsson, B.S. & Saerens, E.J., eds (1973) *Scand. J. Resp. Dis., Suppl.* 84, 15.

The localization, metabolism, and effects of drugs and toxicants in lung.

Brown, E.A.B. (1974) *Drug Metab. Res.* 3, 33.

The biochemical pharmacology of abused drugs. I. Amphetamines, cocaine, and LSD.

Caldwell, J. & Sever, P.S. (1974) *Clin. Pharmacol. Ther.* 16, 625.

Role of nutrition in the drug-metabolizing enzyme system.

Campbell, T.C. & Hayes, J.R. (1974) *Pharmacol. Rev.* 26, 171.

Antiparasitic agents.

Campbell, W.C. & Mrozk, H. (1974) *Annu. Rep. Med. Chem.* 7, 115.

The nature and distribution of enzymes catabolizing the conjugation of glutathione with foreign compounds.

Chasseaud, L.F. (1973) *Drug Metab. Rev.* 2, 185.

Drug binding and drug action.

Chignell, C.F. (1974) *Annu. Rep. Med. Chem.* 9, 280.

The determination of some 1,4-benzodiazepines and their metabolites in body fluids.

Clifford, J.M. & Smyth, W.F. (1974) *Analyst*, 99, 241.

Use of β -adrenoreceptor blocking drugs in hypertension.

Doyle, A.E. (1974) *Drugs*, 8, 422-431.

Electrolyte and antiarrhythmic drug interaction.

Dreifus, L.S., de Azevedo, I.M. & Watanabe, Y. (1974) *Amer. Heart J.* 88, 95.

Structure-antitumor activity relationships among quinone derivatives.

Driscoll, J.S., Hazard, jr, G.F., Wood, jr, H.B. & Goldin, A. (1974) *Cancer Chemother. Rep.* 4, No. 2, pt. 2 (Suppl.), 1-362.

New aspects of the mode of action of nonsteroid anti-inflammatory drugs.

Ferreira, S.H. & Vane, J.R. (1974) *Annu. Rev. Pharmacol.* 14, 57.

Postjunctional supersensitivity and subsensitivity of excitable tissues to drugs.

Fleming, W.W., McPhillips, J.J. & Westfall, D.P. (1973) *Ergeb. Physiol. Biol. Chem. Exp. Pharmacol.* 68, 55-119.

Donald E. Francke Medal Lecture: International aspects of drug use and abuse.

Francke, D.E. (1974) *Amer. J. Hosp. Pharm.* 31, 130.

Metabolism of certain commonly used barbiturates.

Freudenthal, R.I. & Carroll, F.I. (1973) *Drug Metab. Rev.* 2, 265.

Platelets, ADP, AMP(c) and antiplatelets drugs.

Gascon, G., Trudel, J., Rabbat, A., Trudel, J. & Dufault, C. (1974) *Union Med. Can.* 103, 1077.

Pharmacodynamic properties of β -adrenergic receptor blocking drugs in man.

Gibson, D.G. (1974) *Drugs*, 7, 8-38.

Biochemical mechanisms of drug toxicity.

Gillette, J.R., Mitchell, J.R. & Brodie, B.B. (1974) *Annu. Rev. Pharmacol.* 14, 271.

Opiate receptors. [Minireview]

Goldstein, A. (1974) *Life Sci.* 14, 615-623.

Recent data concerning the biochemical side-effects induced by DOPA.

Gonnard, P. (1974) *Pathol. Biol. Semaine Hôp.* 22, 263.

Metabolism of tricyclic antidepressants. A review.

Gram, L.F. (1974) *Dan. Med. Bull.* 21, 218.

1973 Intra-science symposium: new ideas in cancer chemotherapy.

Hall, T.C. & others (1974) *Cancer Chemother. Rep. Pt. 1*, 58, 429.

- Present problems of active principle research, part 6.
Halle, W. & Jentzsch, K.D. (1974) *Pharmazie*, 29, 433.
- Present problems of active principle research, part 2.
Heder, G. (1974) *Pharmazie*, 29, 153.
- Present problems of active principle research, part 4.
Hilse, H., Plesche, L. & Scheer, E. (1974) *Pharmazie*, 29, 303.
- Progress in the field of drug development. Part 8.
Hörig, C., Koch, H., Mayr, E., Richter, J. & Selchau, M. (1974) *Pharmazie*, 29, 626.
- Newer concepts of cannabis action and opiate dependence.
Hollister, L.E. & others (1974) *Pharmacology*, 11, No. 1.
- The mechanisms of action of L-DOPA in Parkinson's disease. [Minireview]
Hornykiewicz, O. (1974) *Life Sci.* 15, 1249-1260.
- Metabolism of brain acetylcholine and its modification by drugs.
Hrdina, P.D. (1974) *Drug Metab. Rev.* 3, 89.
- The influence of stereochemical factors on drug disposition.
Jenner, P. & Testa, B. (1973) *Drug Metab. Rev.* 2, 117.
- Present problems of active principle research, part 5.
Jentzsch, K.D., Zipper, J. & Halle, W. (1974) *Pharmazie*, 29, 369.
- Arene oxides: a new aspect of drug metabolism.
Jerina, D.M. & Daly, J.W. (1974) *Science*, 185, 573-582.
- Zur Therapie der Glomerulonephritis mit Corticosteroiden und Immunosuppressiva. Treatment of glomerulonephritis with corticosteroids and immunosuppressive drugs. [In German: English abstract]
Kampf, D. & Baethke, R. (1974) *Dtsch. Med. Wochenschr.* 99, 1151.
- Sex-related differences in drug metabolism.
Kato, R. (1974) *Drug Metab. Rev.* 3, 1.
- New curare-like agents.
Kharkevich, D.A. (1974) *J. Pharm. Pharmacol.* 26, 201.
- Symposium on therapy-resistant depressions, organized by the World Psychiatric Association Section Committee on Pharmacopsychiatry, Sept. 1973, Basel.
Kielholz, P. & others (1974) *Pharmakopsychiatr. Neuro-Psychol.* 7, 69.
- Occasional survey: Pharmacology of uricosuric drugs.
Kippen, I., Whitehouse, M.W. & Klinenberg, J.R. (1974) *Ann. Rheum. Dis.* 33, 391.
- Drug reactions: Cutaneous reactions to cytostatic agents.
Levantine, A. & Almeyda, J. (1974) *Brit. J. Dermatol.* 90, 239.
- Drug actions and reactions.
Levin, R.R. (1973) 412pp., Little Brown.
- Recent views on the mechanisms of nitrate ester metabolism.
Litchfield, M.H. (1973) *Drug Metab. Rev.* 2, 239.
- Practical concepts of drug absorption, distribution and loss.
MacLeod, C., Rabin, H., Ogilvie, O., Ruedy, J., Caron, M., Zarowny, D. & Davies, R.O. (1974) *Can. Med. Assoc. J.* 111, 341.
- Pharmacology.
Marks, V., Morris, B.A. & Teale, J.D. (1974) *Brit. Med. Bull.* 30, 80-86.
- Some aspects of evolutionary pharmacology. [Commentary]
Michelson, M.J. (1974) *Biochem. Pharmacol.* 23, 2211.
- The conditioned emotional response (CER) as a baseline for the study of anti-anxiety drugs.
Millenson, J.R. & Leslie, J. (1974) *Neuropharmacology*, 13, 1.
- Blood-brain barrier permeability to drugs.
Oldendorf, W.H. (1974) *Annu. Rev. Pharmacol.* 14, 239.
- Chemotherapy of dental plaque - a review.
Parsons, J.C. (1974) *J. Periodontol.* 45, 177.
- Present problems of active principle research, part 3.
Plesche, L., Hilse, H. & Scheer, E. (1974) *Pharmazie*, 29, 233.
- Quantitative drug design.
Redl, G., Cramer, R.D. & Berkoff, C.E. (1974) *Chem. Soc. Rev.* 3, 273.
- Wirkungsänderungen von Arzneimitteln durch gegenseitige Störung ihrer Eiweißbindung und ihres Abbaus. Changing effects of drugs by reciprocal disturbances of their protein binding and their breakdown. [In German: English abstract]
Remmer, H. (1974) *Dtsch. Med. Wochenschr.* 99, 413.
- Automated assay of drugs in body fluids.
Rhodes, C.T. & Hone, R.E. (1973) *Drug Metab. Rev.* 2, 221.
- Inflammation and anti-inflammatory drugs: Proceedings of an international symposium held in Ribeirão Preto, SP., Brazil.
Rocha e Silva, M. & others (1973) *Agent. Action.* 3, 265.
- Effects of drugs on nutrition. [Minireview]
Roe, R.A. (1974) *Life Sci.* 15, 1219-1234.
- Non-steroidal antiinflammatory agents.
Rosenthale, M.E. (1974) *Annu. Rep. Med. Chem.* 7, 193.
- Antiviral agents.
Schwartz, A.R. (1974) *Annu. Rep. Med. Chem.* 7, 128.
- Antifungal agents.
Shadomy, S. (1974) *Annu. Rep. Med. Chem.* 7, 107.
- Camptothecin.
Shamma, M. & St. Georgiev, V. (1974) *J. Pharm. Sci.* 63, 163.
- Pharmacokinetic properties of β -adrenergic receptor blocking drugs.
Shand, D.G. (1974) *Drugs*, 7, 39-47.
- Virus-cell interactions and viral antimetabolites. Seventh FEBS meeting, Varna (Bulgaria), September 1971.
Shugar, D., ed. (1972) *FEBS Symp.* 22, 231pp.
- β -adrenergic receptor blocking drugs in cardiac arrhythmias.
Singh, B.N. & Jewitt, D.E. (1974) *Drugs*, 7, 426-461

Control of DNA metabolism and chemotherapy.

Skoog, K.L. & others (1974) *Advan.Enzyme Regul.* 12, 345-372.

Survey of radiopharmaceuticals and their current status.

Soloway, A.H. & Davis, M.A. (1974) *J.Pharm.Sci.* 63, 647.

Natural substances with carcinostatic properties.

Stauch, R. & Hiller, K. (1974) *Pharmazie*, 29, 656.

Inhibitors of RNA and DNA biosynthesis. [Minireview]

Sung, S.-C. (1974) *Life Sci.* 15, 359-369.

Biochemistry of drug dependence.

Takemori, A.E. (1974) *Annu.Rev.Biochem.* 43, 15-33.

Cytochrome P-450 monooxygenases in drug metabolism.

Tomeszewski, J.E., Jerina, D.M. & Daly, J.W. (1974) *Annu.Rep.Med.Chem.* 7, 290.

The metabolic fate of cyclophosphamide.

Torkelson, A.R., LaBudde, J.A. & Weikel, jr, J.H. (1974) *Drug Metab.Rev.* 3, 131.

Determination of drugs in biologic specimens - a review.

Wallace, J.E., Blum, K. & Jasbir, M. (1974) *Clin.Toxicol.* 7, 477.

Cellular pharmacology of lanthanum.

Weiss, G.B. (1974) *Annu.Rev.Pharmacol.* 14, 343.

Use of β -adrenergic receptor blocking drugs in psychiatry.

Whitlock, F.A. & Price, J. (1974) *Drugs*, 8, 109-124.

Factors determining the teratogenicity of drugs.

Wilson, J.G. (1974) *Annu.Rev.Pharmacol.* 14, 205.

ELASTIN

Elastin, elastase and atheroma.

Robert, B., Robert, L. & Robert, A.-M. (1974) *Pathol.Biol.Semaine Hôp.* 22, 661.

ENZYMES AND ENZYME REGULATION

See also: ISOENZYMES

Enzyme mechanisms.

Akhtar, M. & Wilton, D.C. (1973) *Annu.Rep.Progr.Chem.Sect.B*, 70, 98.

Properties and functions of $(Na^+ + K^+)$ -activated adenosinetriphosphatase.

Askari, A., ed. (1974) *Ann.N.Y.Acad.Sci.* 242, 6.

Stirylpyridine inhibitors of the cholinacetyltransferase. (Literature survey) [In Russian: English abstract]

Bandman, A.L. (1974) *Farmakol.Toksikol.* 37, 116.

Recent progress in enzyme pathology.

Beutler, E. & others (1974) *Enzyme*, 18, No.1-2.

The natural history of amine oxidases.

Blaschko, H. (1974) *Rev.Physiol.Biochem.Pharmacol.* 70, 83-148.

Metabolic flux through phosphofructokinase and fructose 1,6-diphosphatase. [Minireview]

Bloxham, D.P. (1974) *Int.J.Biochem.* 5, 429.

Dynein and the biochemistry of ciliary motility. [In English and Spanish, followed by 4 reprinted articles]

Blum, J.J. (1974) *PAABS Rev.* 3, 477-532.

Enzymology in the practice of laboratory medicine. Proceedings of a Continuation course, University of Minnesota, Minneapolis, May 1972.

Blume, P. & Freier, E.F., eds (1974) 422pp., Academic Press.

Evolution of enzyme replacement therapy for lipid storage disease. [Minireview]

Brady, R.O., Gal, A.E. & Pentchev, P.G. (1974) *Life Sci.* 15, 1235-1248.

Role of nutrition in the drug-metabolizing enzyme system.

Campbell, T.C. & Hayes, J.R. (1974) *Pharmacol.Rev.* 26, 171.

Prolyl hydroxylase.

Cardinale, G.J. & Udenfriend, S. (1974) *Advan.Enzymol.* 41, 245.

The nature and distribution of enzymes catabolizing the conjugation of glutathione with foreign compounds.

Chasseaud, L.F. (1973) *Drug Metab.Rev.* 2, 185.

Molecular basis of enzyme secretion by the exocrine pancreas.

Christophe, J., Robberecht, P., Deschodt-Lanckman, M., Lambert, M., Van Leemput-Coutrez, M. & Camus, J. (1974) *Advan.Cytopharmacol.* 2, 47.

Do cyclic nucleotides promote the trans-synaptic induction of tyrosine hydroxylase? [Minireview]

Costa, E., Guidotti, A. & Hanbauer, I. (1974) *Life Sci.* 14, 1169-1188.

The sodium-potassium adenosinetriphosphatase.

Dahl, J.L. & Hokin, L.E. (1974) *Annu.Rev.Biochem.* 43, 327-356.

Phenylalanine hydroxylase.

Dhondt, J.-L. & Farriaux, J.-P. (1974) *Pathol.Biol.Semaine Hôp.* 22, 439.

Some aspects of fibrinogen biochemistry; interaction with proteolytic enzymes.

Donati, M.B. (1973) *Acta Vitaminol.Enzymol.* 27, 233.

Nitrogenase.

Eady, R.R. & Postgate, J.R. (1974) *Nature*, 249, 805-810.

Structure of glutamic dehydrogenase.

Eisenberg, H. (1973) *Curr.Top.Biochem.* 43.

Interactions of polynucleotides and other polyelectrolytes with enzymes and other proteins.

Elbein, A.D. (1974) *Advan.Enzymol.* 40, 29.

Role of phospholipids in transport and enzymic reactions.

Fourcans, B. & Jain, M.K. (1974) *Advan.Lipid Res.* 12, 148.

Superoxide dismutases.

Fridovich, I. (1974) *Advan.Enzymol.* 41, 35.

Enzymes as taxonomic and genetic tools in *Phascolus* and *Aspergillus*. (Lecture)

Garber, E.D. (1974) *Isr.J.Med.Sci.* 10, 268.

Enzymes of sterol biosynthesis.

Gaylor, J.L. (1974) In: MTP International Review of Science, Biochemistry Series Vol.4, Biochemistry of lipids (Goodwin, T.W., ed.) p.1, Butterworths.

Serum dopamine β -hydroxylase as an index of sympathetic function. [Minireview]

Geffen, L. (1974) *Life Sci.* 14, 1593-1604.

DNA polymerases II and III of *Escherichia coli*.

Geftter, M.L. (1974) *Progr.Nucleic Acid Res.* 14, 101.

Recent research on lecithin:cholesterol acyltransferase.

Gjone, E. & Norum, K.R. (1974) *Scand.J.Clin.Lab. Invest.* 33, Suppl.137.

Group antigens and antigenic determinants of reverse transcriptase of type C oncornavirus.

Gomard, E. & Levy, J.-P. (1974) *Pathol.Biol.Semaine Hôp.* 22, 621.

RNA-directed DNA polymerase - properties and functions in oncogenic RNA viruses and cells.

Green, M. & Gerard, G.F. (1974) *Progr.Nucleic Acid Res.* 14, 188.

Structure and function of dehydrogenases. [In English and Spanish, followed by 6 reprinted articles]

Hackert, M.L. & Rossmann, M.G. (1974) *PAABS Rev.* 3, 533-604.

Kinetics of allosteric enzymes.

Hammes, G.G. & Wu, C.-W. (1974) *Annu.Rev.Biophys. Bioeng.* 3, 1.

Collagenases.

Harris, jr, E.D. & Krane, S.M. (1974) *N.Engl.J.Med.* 291, 557-563; 605-609; 652-661.

Electron microscopy of enzymes.

Haschemeyer, R.H. & Harven, E.de (1974) *Annu.Rev. Biochem.* 43, 279-301.

Control of purine and pyrimidine synthesis.

Hitchings, G.H. & others (1974) *Advan.Enzyme Regul.* 12, 121-153.

Regulation of lysosomal enzyme secretion: role of inflammation.

Ignarro, L.J. (1974) *Agent.Action.* 4, 241.

Methods in Enzymology, vol.XXXIV. Affinity techniques - enzyme purification: Part B.

Jakoby, W.B. & Wilchek, M., eds (1974) 810pp., Academic Press.

Characteristics of the lipase from mold, *Geotrichum candidum*: a review.

Jensen, R.G. (1974) *Lipids*, 9, 149-157.

Symposium: microbial lipolytic enzymes.

Jensen, R.G. & others (1974) *Lipids*, 9, 149-172.

Regulation of enzyme activity during differentiation in *Dictyostelium discoideum*.

Killick, K.A. & Wright, B.E. (1974) *Annu.Rev.Microbiol.* 28, 139.

Aminoacyl-tRNA synthetases: some recent results and achievements.

Kisselev, L.L. & Favorova, O.O. (1974) *Advan. Enzymol.* 40, 141.

The regulation of the pentose phosphate cycle liver. [Special symposium lecture]

Krebs, H.A. & Eggleston, L.V. (1974) *Advan.Enzyme Regul.* 12, 421-434.

Acetyl coenzyme A carboxylase.

Lane, M.D., Moss, J. & Polakis, S.E. (1974) *Curr. Top.Cell.Regul.* 8, 139.

Regulation of tryptophan and tyrosine hydroxylase. [Minireview]

Lovenberg, W. & Victor, S.J. (1974) *Life Sci.* 14, 2337-2353.

Proteolytic enzymes in virologic investigations.

(Survey) [In Russian: English abstract]

Lozitsky, V.P. & Degtyarenko, V.I. (1974) *Vopr. Virusol. No.2*, 131.

Virus-associated enzymes. [Minireview]

McAuslan, B.R. (1974) *Life Sci.* 14, 2058-2097.

Glutamine synthetase as a regulator of enzyme synthesis.

Megasanik, B., Prival, M.J., Brenchley, J.E., Tyler, B.M., DeLeo, A.B., Streicher, S.L., Bender, R.A. & Paris, C.G. (1974) *Curr.Top.Cell.Regul.* 8, 119.

Mechanism of enzyme action.

Mildvan, A.S. (1974) *Annu.Rev.Biochem.* 43, 357-399.

Relationships among RNA-directed DNA polymerase activities of avian viruses and chicken cells.

Mizutani, S., Kang, C.-Y. & Temin, H.M. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 289.

Comparative specificity of microbial proteinases.

Morihara, K. (1974) *Advan.Enzymol.* 41, 179.

Several topics concerning Na,K-ATPase. [Minireview]

Nakao, M. (1974) *Life Sci.* 15, 1849-1860.

Another look at the monoamine oxidases and the monoamine oxidase inhibitor drugs. [Minireview]

Neff, N.H. & Yang, H.-Y. (1974) *Life Sci.* 14, 2061-2074.

The role of β -lactamases in the resistance of Gram-negative bacteria to penicillin and cephalosporin derivatives.

Neu, H.C. (1973) *Infect.Dis.Rev.* 3, 133.

Cytochrome *c* binding to enzymes and membranes.

Nicholls, P. (1974) *Biochim.Biophys.Acta*, 346, 261.

Metabolic regulation of multifunctional glucose-6-phosphatase.

Nordlie, R.C. (1974) *Curr.Top.Cell.Regul.* 8, 33.

Immobilized enzymes in food and microbial processes.

Proceedings of a symposium, Chicago, 1973.

Olson, A.C. & Cooney, C.L., eds (1974) 268pp., Plenum Press.

Lysozyme: based on the Lysozyme Conference, Harriman, N.Y., Oct. 1972.

Osserman, E.F., Canfield, R.E. & Beychok, S., eds (1974) 641pp., Academic Press.

Pasteur effect and phosphofructokinase.

Ramaiah, A. (1974) *Curr.Top.Cell.Regul.* 8, 298.

Mechanism-based irreversible enzyme inhibitors.

Rando, R.R. (1974) *Annu.Rep.Med.Chem.* 7, 234.

Symposium on catecholamines and their enzymes in the neuropathology of schizophrenia, May 1973.

Randrup, A. & others (1974) *J.Psychiatr.Res.* 11, 1.

Elastin, elastase and atheroma.

Robert, B., Robert, L. & Robert, A.-M. (1974) *Pathol.Biol.Semaine Hôp.* 22, 661.

Effect of diet on activity of enzymes involved in fatty acid and cholesterol synthesis.

Romsos, D.R. & Leveille, G.A. (1974) *Advan.Lipid Res.* 12, 97.

The zymogen granule: intragranular organization and its functional significance.

Rothman, S.S., Burwen, S. & Liebow, C. (1974) *Advan.Cytopharmacol.* 2, 341.

Insolubilized enzymes.

Salmona, M., Saronio, C. & Garattini, S., eds (1974) 226pp., Raven Press.

Membrane associated enzymes in bacteria.

Salton, M.R.J. (1974) *Advan.Microbial Physiol.* 11, 213.

Lecithinabbau und Cholesterinveresterung im Humanserum. Neuere Erkenntnisse über die Stellung der Lecithin-Cholesterin-Acyltransferase im Fettstoffwechsel unter normalen und pathologischen Bedingungen. Lecithin degradation and esterification of cholesterol in human serum. Further results on the role of lecithin-cholesterol-acyltransferase in lipid metabolism under normal and pathological conditions.

Scherer, R. (1974) *Klin.Wochenschr.* 52, 203.

Membrane-bound enzymes and hormones. A.4.

Semenza, G. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges, 1973.* pp.245-282, Pergamon.

The structure of mitochondrial ATPase.

Senior, A.E. (1973) *Biochim.Biophys.Acta*, 301, 249.

Regulation of tRNA metabolism.

Sharma, O.K. & others (1974) *Advan.Enzyme Regul.* 12, 85-117.

Ultrastructural cytochemistry of enzymes and some applications.

Shnitka, T.K. & Seligman, A.M. (1973) *Methods Cancer Res.* 10, 37.

Variations of plasmatic enzymes during exercise.

Siest, G. & Galteau, M.M. (1974) *Enzyme*, 17, 179.

Aminoacyl-tRNA transferases.

Soffer, R.L. (1974) *Advan.Enzymol.* 40, 91.

The action of a restriction endonuclease on higher organism DNA.

Southern, E.M. & Roizes, G. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 429.

Controls of citrate synthase activity. [Minireview]

Srere, P.A. (1974) *Life Sci.* 15, 1695-1710.

Precursor pools and endogenous control of enzyme synthesis and activity in biosynthetic pathways.

Stebbing, N. (1974) *Bacteriol.Rev.* 38, 1-28.

A family of protein-cutting proteins.

Stroud, R.M. (1974) *Sci.Amer.* 231, no.1, 74-88.

Enzymes in organic synthesis.

Suckling, C.J. & Suckling, K.E. (1974) *Chem.Soc. Rev.* 3, 387.

Applications of nuclear magnetic resonance methods to the investigation of the structure and function of lysozyme. [In English and Spanish, followed by 5 reprinted articles]

Sykes, B.D. (1974) *PAABS Rev.* 3, 835-895.

Transformation of organic compounds by microbial enzymes. [Review letter]

Tamm, Ch. (1974) *FEBS Lett.* 48, 7-21.

Role of lipids in activation of Na⁺,K⁺-dependent ATPase and K⁺-dependent phosphatase of the brain.

Tanaka, R. (1974) *Rev.Neurosci.* 1, 181.

Trans-synaptic enzyme induction. [Minireview]

Thoenen, H. (1974) *Life Sci.* 14, 223-235.

Cytochrome P-450 monooxygenases in drug metabolism.

Tomeszewski, J.E., Jerina, D.M. & Daly, J.W. (1974) *Annu.Rep.Med.Chem.* 7, 290.

Naturally occurring protein-proteinase inhibitors from animal and vegetable organisms.

Uhlig, H. & Kleine, R. (1974) *Pharmazie*, 29, 81.

Neuropsychopharmacology of monoamines and their regulatory enzymes.

Usdin, E., ed. (1974) 462pp., Raven Press.

Cutinolytic enzymes in relation to pathogenesis.

van den Ende, G. & Linskens, H.F. (1974) *Annu.Rev. Phytopathol.* 12, 247.

Organisation of proteins in membranes with special reference to the cytochrome oxidase system.

Vanderkooi, G. (1974) *Biochim.Biophys.Acta*, 344, 307.

Enzymes of arginine biosynthesis and their repressive control.

Vogel, H.J. & Vogel, R.H. (1974) *Advan.Enzymol.* 40, 65.

RNA-dependent DNA polymerases in animal cells: a question. [In English and Spanish, followed by 6 reprinted articles]

Weissbach, A. (1974) *PAABS Rev.* 3, 167-208.

Enzyme catalysis: conflicting requirements of substrate access and transition state affinity.

Wolfenden, R. (1974) *Mol.Cell.Biochem.* 3, 207.

Anomeric specificity of enzymes of D-glucose metabolism.

Wurster, B. & Hess, B. (1974) *FEBS Lett.* 40, Suppl. S112-S118.

Daily rhythms in tyrosine transaminase and other hepatic enzymes that metabolize amino acids: mechanisms and possible consequences. [Minireview]

Wurtman, R.J. (1974) *Life Sci.* 15, 827-847.

ERYTHROCYTES

See: BLOOD AND BLOOD PROTEINS

ERYTHROPOIESIS

See: BLOOD AND BLOOD PROTEINS

ETHANOL

Speculations on the biochemical pharmacology of ethanol. [Minireview]

Rahwan, R.G. (1974) *Life Sci.* 15, 617-633.

EVOLUTION

See: GENETICS

EYES

See: VISION

FATS

See: LIPIDS

FATTY ACIDS

The oxidative desaturation of unsaturated fatty acids in animals.

Brenner, R.R. (1974) *Mol.Cell.Biochem.* 3, 41.

Metabolic alterations of fatty acids.

Fulco, A.J. (1974) *Annu.Rev.Biochem.* 43, 215-241.

The role of membrane lipid fatty acids and cholesterol in the structure and function of mycoplasma membranes. [In English and Spanish, followed by 5 reprinted articles]

McElhaney, R.N. (1974) *PAABS Rev.* 3, 753-833.

Inhibition of fatty acid oxidation by biguanides: implications for metabolic physiopathology.

Muntoni, S. (1974) *Advan.Lipid Res.* 12, 311.

Regulation of fatty-acid synthesis in higher animals.

Numa, S. (1974) *Ergeb.Physiol.Biol.Chem.Exp.Pharmakol.* 69, 53.

Effect of diet on activity of enzymes involved in fatty acid and cholesterol synthesis.

Ronsos, D.R. & Leveille, G.A. (1974) *Advan.Lipid Res.* 12, 97.

Biosynthesis of saturated fatty acids.

Vagelos, P.R. (1974) In: MTP International Review of Science, Biochemistry Series Vol.4, Biochemistry of lipids (Goodwin, T.W., ed.) p.99, Butterworths.

FUNGI

Fungal genetics.

Catcheside, D.G. (1974) *Annu.Rev.Genet.* 8, 279.

Fungal cell wall glycoproteins and peptidopolysaccharides.

Gander, J.E. (1974) *Annu.Rev.Microbiol.* 28, 103.

Enzymes as taxonomic and genetic tools in *Phascolus* and *Aspergillus*. (Lecture)

Garber, E.D. (1974) *Isr.J.Med.Sci.* 10, 268.

Fungal sex hormones.

Gooday, G.W. (1974) *Annu.Rev.Biochem.* 43, 35-49.

Fungal sterols and the mode of action of the polyene antibiotics.

Hamilton-Miller, J.M.T. (1974) *Advan.Appl.Microbiol.* 17, 109.

Fungal viruses.

Lemke, P.A. & Nash, C.H. (1974) *Bacteriol.Rev.* 38, 29-56.

Fungus metabolites toxic to animals.

Mirocha, C.J. & Christensen, C.M. (1974) *Annu.Rev.Phytopathol.* 12, 303.

Antifungal agents.

Shadomy, S. (1974) *Annu.Rep.Med.Chem.* 7, 107.

Sporogenesis in fungi.

Turian, G. (1974) *Annu.Rev.Phytopathol.* 12, 129.

Latent infections by fungi.

Verhoeff, K. (1974) *Annu.Rev.Phytopathol.* 12, 99.

Recent advances in the genetics of plant pathogenic fungi.

Webster, R.K. (1974) *Annu.Rev.Phytopathol.* 12, 331.

GENES

See: GENETICS

GENETIC CODE

See: GENETICS

GENETIC AND METABOLIC DISEASES

Genetic aspects of gout.

Becker, M.A. & Seegmiller, J.E. (1974) *Annu.Rev.Med.* 25, 15.

Genetisch kontrollierte Störungen des menschlichen Komplementsystems. (I. Teil) [Genetically controlled disorders of the human complement system]

Brackertz, D. (1974) *Schweiz.Med.Wochenschr.* 104, 777.

Use of amino acid precursors in nitrogen-accumulation diseases.

Close, J.H. (1974) *N.Engl.J.Med.* 290, 663-667.

Methionine metabolism in mammals: The biochemical basis for homocystinuria.

Finkelstein, J.D. (1974) *Metabolism*, 23, 387.

Thalassemia: an abnormality in globin chain synthesis. [Invited review]

Freedman, M.L. (1974) *Amer.J.Med.Sci.* 267, 256.

Hypercholesterolemia and hypertriglyceridemia in children.

Glueck, C.J., Fallat, R.W. & Tsang, R. (1974) *Amer.J.Dis.Child.* 128, 569.

Inborn errors of morphogenesis. A review of localized hereditary malformations.

Holmes, L.B. (1974) *N.Engl.J.Med.* 291, 763-773.

Approaches to the control and prevention of Tay-Sachs disease.

Kaback, M.M., Zeiger, R.S., Reynolds, L.W. & Sonnenborn, M. (1974) *Progr.Med.Genet.* 10, 103.

Enzymology of gout.

Kelley, W.N. & Wyngaarden, J.B. (1974) *Advan.Enzymol.* 41, 1.

Parenteral nutrition in acute metabolic illness.

Lee, H.A., ed. (1974) 453pp., Academic Press.

Research in cystic fibrosis: a review.

McCombs, M.L. (1973) *Tex.Rep.Biol.Med.* 31, 615.

The biochemical basis for mucopolysaccharidoses and mucopolipidoses.

Neufeld, E.F. (1974) *Progr.Med.Genet.* 10, 81.

Triploidy in man. Cytogenetical and clinical aspects.

Niebuhr, E. (1974) *Humangenetik*, 21, 103.

Hereditary glucosephosphate isomerase deficiency. A review.

Paglia, D.E. & Valentine, W.N. (1974) *Amer.J.Clin.Pathol.* 62, 740.

Krankheiten infolge genetischer Defekte im lysosomalen Mucopolysaccharid-Abbau. Diseases caused by genetic defect in lysosomal mucopolysaccharide breakdown.

Passarge, E., Wendel, U., Wöhler, W. & Rüdiger, H.W. (1974) *Dtsch.Med.Wochenschr.* 99, 144.

Biochemical diagnosis and therapeutics of molecular diseases. [Lecture]

Perlès, R. (1974) *Ann.Pharm.Fr.* 32, 155.

Brain dysfunction in metabolic disorders.

Plum, F., ed. (1974) 324pp., Raven Press.

Xanthomatosis and hyperlipoproteinemia. A review.

Polano, M.K. (1974) *Dermatologica*, 149, 1.

Is hereditary histidinaemia harmful? [Occasional survey]

Popkin, J.S., Clow, C.L., Scriver, C.R. & Grove, J. (1974) *Lancet*, 1, 721-722.

The physiological and cellular basis of metabolic bone disease.

Rasmussen, H. & Bordier, P., eds. (1974) 364pp., Williams & Wilkins.

Calcium homeostasis and the pathogenesis and management of hypercalcemic disorders. [Progress in endocrinology and metabolism]

Schneider, A.B. & Sherwood, L.M. (1974) *Metabolism*, 23, 975.

Vitamin-responsive inborn errors of metabolism (the hereditary vitamin dependencies). The first Milner lecture.

Scriver, C.R. (1973) *Society for the Study of Inborn Errors of Metabolism. Symp.No.10*, 127-148.

Treatment of inborn errors of metabolism. Proceedings of the 10th symposium of the Society for the study of inborn errors of metabolism.

Seakins, J.W.T., Saunders, R.A. & Toothill, C., eds (1973) 260pp., Churchill Livingstone.

Inborn errors of the thyroid.

Stanbury, J.B. (1974) *Progr.Med.Genet.* 10, 55.

Presidential address: Studies in the neuronal ceroid-lipofuscinoses.

Zeman, W. (1974) *J.Neuropathol.Exp.Neurol.* 33, 1.

GENETICS

Analysis of genetic regulatory mechanisms.

Beckwith, J. & Rossow, P. (1974) *Annu.Rev.Genet.* 8, 1.

Symposium: Non-chromosomal inheritance.

Beissou, J.A. & others (1974) *Genetics*, 78, 403-471.

The neurobiology of cricket song.

Bentley, D. & Hoy, R.R. (1974) *Sci.Amer.* 231, no.2, 34-44.

Structure and function in the genome of *Drosophila hydei*.

Berendes, H.D., Alonso, C., Helmsing, P.J., Leenders, H.J. & Derksen, J. (1973) *Cold Spring Harb. Symp.Quant.Biol.* 38, 645.

The gene numbers game.

Bishop, J.O. (1974) *Cell*, 2, 81.

Behavioral genetics.

Broadhurst, P.L., Fulker, D.W. & Wilcock, J. (1974) *Annu.Rev.Psychol.* 25, 389.

Methods of gene isolation.

Brown, D.D. & Stern, R. (1974) *Annu.Rev.Biochem.* 43, 667-693.

The genetics of human populations.

Cavalli-Sforza, L.L. (1974) *Sci.Amer.* 231, no.3, 81-89.

Somatic cell genetics of higher plants.

Chaleff, R.S. & Carlson, P.S. (1974) *Annu.Rev.Genet.* 8, 267.

Symposium: Developmental genetics.

Church, R.B., chairman (1974) *Genetics*, 78, 351-402.

Transfer of genetic information in polytene cells.

Daneholt, B. (1974) *Int.Rev.Cytol., Suppl.* 4, 417.

Genetic engineering and life synthesis: An introduction to the review by R.Widdus and C.Ault.

Danielli, J.F. (1974) *Int.Rev.Cytol.* 38, 2.

Organization, transcription and regulation in the animal genome.

Davidson, E.H. & Britten, R.J. (1973) *Quart.Rev.Biol.* 48, 565-613.

Gene expression in somatic cell hybrids.

Davidson, R.L. (1974) *Annu.Rev.Genet.* 8, 195.

The mutation rate in man.

Edwards, J. (1974) *Progr.Med.Genet.* 10, 1.

Proceedings of a Workshop-Conference on the genetic determinants and mechanisms of cell-mediated immune reactions, Feb.26 - March 2, 1973, London, England.

Festenstein, H., Démant, P. & others (1973) *Transplant.Proc.* 5, 1315.

Origins of biological information and the genetic code.

Fox, S. (1974) *Mol.Cell.Biochem.* 3, 129.

Genetical load in man.

Fraser, G.M. & Mayo, O. (1974) *Humangenetik*, 23, 83.

The genetic control of leukemogenesis. I. Genetic systems involved at the level of virus-cell interaction.

Gisselbrecht, S. & Levy, J.P. (1974) *Biomedicine*, 20, 95.

The genetic control of leukemogenesis. II. Genetic systems involved in the control of leukemogenesis as they are detected "in vivo".

Gisselbrecht, S. & Levy, J.P. (1974) *Biomedicine*, 20, 171.

Autogenous regulation of gene expression.

Goldberger, R.F. (1974) *Science*, 183, 810-816.

Biochemical genetics of bacteria.

Gots, J.S. & Benson, C.E. (1974) *Annu.Rev.Genet.* 8, 79.

Genetic control of immune responses.

Green, I. (1974) *Immunogenetics*, 1, 4-21.

Control of gene expression in prokaryotic systems.

Gros, F. (1974) *FEBS Lett.* 40, Suppl., S19-S27.

Ultrastructure of active eukaryotic genomes.

Hankalo, B.A., Miller, jr, O.L. & Bakken, A.H.

(1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 915.

Prospects in genetic engineering of plants.

Heyn, R.F., Rörsch, A. & Schilperoort, R.A. (1974) *Quart. Rev. Biophys.* 7, 35.

The origin of life.

Horowitz, N.H. & Hubbard, J.S. (1974) *Annu. Rev. Genet.* 8, 393.

Models of genetic recombination.

Hotchkiss, R.D. (1974) *Annu. Rev. Microbiol.* 28, 445.

Immunogenetic ontogeny of cellular membrane function: a review.

Hubbert, W.T. & Miller, W.J. (1974) *J. Cell. Physiol.* 84, 429.

Recent advances in ophthalmic genetics: Genetic counselling.

Jay, B. (1974) *Brit. J. Ophthalmol.* 58, 427-437.

Human skin pigmentation, its genetics and variation.

Kalla, A.K. (1974) *Humangenetik*, 21, 289.

Advances in cytology and genetics of bees.

Kerr, W.E. (1974) *Annu. Rev. Entomol.* 19, 253.

Effects of caffeine on the genetic material. Introductory lecture given at the symposium on Caffeine as an environmental mutagen and the problem of synergistic effects, held in connection with the 3rd Annual meeting of the EEMS.

Kihlman, B.A. (1974) *Mutat. Res.* 26, 53-71.

Gene pool of higher organisms as a product of evolution.

Kimura, M. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 515.

Genetic polymorphism of the *histocompatibility-2* loci of the mouse.

Klein, J. (1974) *Annu. Rev. Genet.* 8, 63.

Regulated expression of mammalian genes: globin and immunoglobulin as model systems.

Leder, P., Ross, J., Gielen, J., Packman, S.,

Ikawa, Y., Aviv, H. & Swan, D. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 753.

Cell recognition based on natural morphological nuclear markers.

Le Douarin, N. (1974) *Med. Biol.* 52, 281.

The one band-one gene hypothesis: evidence from a cytogenetic analysis of mutant and nonmutant rearrangement breakpoints in *Drosophila melanogaster*.

Lefevre, jr, G. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 591.

Pheromones as a means of genetic control of behavior.

Leonard, J.E., Ehrman, L. & Pruzan, A. (1974) *Annu. Rev. Genet.* 8, 179.

Bacterial genetics excluding *E. coli*.

Levinthal, M. (1974) *Annu. Rev. Microbiol.* 28, 219.

Transcription and structure of the genome of the cellular slime mold *Dictyostelium discoideum*.

Lodish, H.F., Firtel, R.A. & Jacobson, A. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 899.

HL-A, immune-response genes, and disease.

[Occasional survey]

McDevitt, H.O. & Bodmer, W.F. (1974) *Lancet*, I, 1269-1275.

Genetics and human disease.

Martin, G.F. & Hoehn, H. (1974) *Hum. Pathol.* 5, 387.

Intercellular gene transfer.

Merril, C.R. & Stanbro, H. (1974) *Z. Pflanzenphysiol.* 72, 371.

GUG and UUG are initiation codons in vivo.

Miller, J.H. (1974) *Cell*, 1, 73.

Gene control of mammalian differentiation.

Mintz, B. (1974) *Annu. Rev. Genet.* 8, 411.

Population cycles in rodents.

Myers, J.H. & Krebs, C.J. (1974) *Sci. Amer.* 230, no. 6, 38-46.

Some problems of Staphylococcus genetics. (Literature survey) [In Russian: English abstract]

Nazarova, A.F. (1974) *Zh. Mikrobiol. Epidemiol. Immunobiol.* No. 2, 3.

Conservation of ancient linkage groups in evolution and some insight into the genetic regulatory mechanism of X-inactivation.

Ohno, S. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 155.

The globin gene: structure and expression.

Paul, J., Gilmour, R.S., Affara, N., Birnie, G., Harrison, P., Hell, A., Humphries, S., Windass, J. & Young, B. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 885.

Regulation and gene expression in heterokaryons.

Ringertz, N.R. (1974) In: Somatic cell hybridization (Davidson, R.L. & de la Cruz, F.F., eds) Raven Press, p. 239.

Symposium: Animal genetics.

Robertson, A., chairman (1974) *Genetics*, 78, 507-575.

Frameshift mutations.

Roth, J.R. (1974) *Annu. Rev. Genet.* 8, 319.

Genetic mechanisms of development.

Ruddle, F.H., ed. (1973) 383pp., Academic Press.

Human genetic linkage and gene mapping by somatic cell genetics.

Ruddle, F.H. (1974) In: Somatic cell hybridization (Davidson, R.L. & de la Cruz, F.F., eds) Raven Press, p. 1.

Hybrid cells and human genes.

Ruddle, F.H. & Kucherlapati, R.S. (1974) *Sci. Amer.* 231, no. 1, 36-44.

New Haven Conference (1973). First international workshop on human gene mapping.

Ruddle, F.H. & others (1974) *Cytogenet. Cell Genet.* 13, Nos. 1-2.

Symposium: Radiation genetics.

Russell, W.L., chairman (1974) *Genetics*, 78, 135-186.

Methodological aspects on the estimation of genetic effects of environmental agents in man.

Ryman, N. & Lindsten, J. (1974) *Advan. Metab. Disord.* 7, 73.

Papers in memory of Lionel Penrose.

Shapiro, A. & others (1974) *Brit.J.Psychiat.* 125, 517.

Animal RNA viruses: genome structure and function.

Shatkin, A.J. (1974) *Annu.Rev.Biochem.* 43, 643-665.

Unequal crossover and the evolution of multigene families.

Smith, G.P. (1973) *Cold Spring Harb.Symp.Quant. Biol.* 38, 507.

On the origin of the genes for neoplasia. G.H.A.Clowes memorial lecture.

Temin, H.M. (1974) *Cancer Res.* 34, 2835.

Gene expression in animal cells.

Thompson, E.B. (1973) *Curr.Top.Biochem.* 187.

Androgenesis in angiosperms. [In Russian: English abstract]

Tymov, V.S. & Khokhlov, S.S. (1974) *Genetika*, 10, 154.

Ethical issues in genetics.

Veatch, R.M. (1974) *Progr.Med.Genet.* 10, 223.

Recent advances in the genetics of plant pathogenic fungi.

Webster, R.K. (1974) *Annu.Rev.Phytopathol.* 12, 331.

Symposium: Genetic exchange.

Whitehouse, H.L.K., chairman (1974) *Genetics*, 78, 237-304.

Progress in research related to genetic engineering and life synthesis.

Widdus, R. & Ault, C.R. (1974) *Int.Rev.Cytol.* 38, 8.

Viruses as a factor of evolution: exchange of genetic information in the biosphere.

Zhdanov, V.M. & Tikhononko, T.I. (1974) *Advan. Virus Res.* 19, 361.

GLOBIN

See: HAEMOGLOBIN

GLUCAGON

Integration of the secretory control mechanisms for insulin, glucagon, and growth hormone.

Blackard, W.G. & Andrews, S.S. (1974) *Curr.Top.Exp. Endocrinol.* 2, 130.

Insulin, growth hormone, and glucagon in prediabetes mellitus - a review.

Johansen, K., Soeldner, J.S. & Gleason, R.E. (1974) *Metabolism*, 23, 1185.

GLUTATHIONE

See: PEPTIDES AND POLYPEPTIDES

GLYCOPROTEINS

The role of surface carbohydrates in the hepatic recognition of circulating glycoproteins.

Ashwell, G. & Morrell, A.G. (1974) *Advan.Enzymol.* 41, 99.

Fungal cell wall glycoproteins and peptidopolysaccharides.

Gander, J.E. (1974) *Annu.Rev.Microbiol.* 28, 103.

Characterization of amyloid.

Glenner, G.G. & Terry, W.T. (1974) *Annu.Rev.Med.* 25, 131.

Isolation and characterization of surface membrane glycoproteins from mammalian cells.

Glick, M.C. (1974) *Methods Membrane Biol.* 2, 157.

FSA - foetal sulphoglycoprotein antigen associated with gastric cancer.

Häkkinen, I.P.T. (1974) *Transplant.Rev.* 20, 61.

Glycolipids and glycoproteins in brain function.

Irwin, L.N. (1974) *Rev.Neurosci.* 1, 137.

The Mendola medal lecture: Chemical aspects of glycoproteins, proteoglycans, and carbohydrate-protein complexes of human tissues.

Kennedy, J.F. (1973) *Chem.Soc.Rev.* 2, 355.

Glycosylation of glycoproteins during intracellular transport of secretory products.

Schachter, H. (1974) *Advan.Cytopharmacol.* 2, 207.

The biosynthesis of animal glycoproteins. [In English and Spanish, followed by 7 reprinted articles]

Schachter, H. (1974) *PAABS Rev.* 3, 269-341.

Glycoproteins.

Sharon, N. (1974) *Sci.Amer.* 230, no.5, 78-86.

GLYCOSIDES

Properties of the receptor for cardiac glycosides.

Erdmann, E. & Schoner, W. (1974) *Klin.Wochenschr.* 52, 705.

GROWTH AND DEVELOPMENT

 α -fetoprotein as a marker of embryo-specific differentiations in normal and tumor tissues.

Abelev, G.I. (1974) *Transplant.Rev.* 20, 3.

Influence of metabolic factors on brain development.

Balázs, R. (1974) *Brit.Med.Bull.* 30, 126-134.

An immunological approach to regeneration in the central nervous system.

Berry, M. & Riches, A.C. (1974) *Brit.Med.Bull.* 30, 135-140.

Development of functional connexions in the mammalian visual system.

Blakemore, C. (1974) *Brit.Med.Bull.* 30, 152-157.

On development: the biology of form.

Bonner, J.T. (1974) Harvard University Press.

- Nerve growth factor. [Minireview]
Boyd, L.F., Bradshaw, R.A., Frazier, W.A., Hogue-Angeletti, R.A., Jeng, I., Pulliam, M.W. & Szutowica, A. (1974) *Life Sci.* 15, 1381-1391.
- Nerve growth factor and insulin: Evidence of similarities in structure, function, and mechanism of action.
Bradshaw, R.A., Hogue-Angeletti, R.A. & Frazier, W.A. (1974) *Recent Progr.Horm.Res.* 30, 575.
- Progress in cytochemical differentiation of cellular infiltrates of the skin. [In German]
Burg, G. & Braun-Falco, O. (1974) *Hautarzt*, 25, 1.
- On the cellular regulation of growth and development in skeletal muscle.
Burleigh, I.G. (1974) *Biol.Rev.Cambridge Phil.Soc.* 49, 267.
- MSH, cyclic AMP, and melanocyte differentiation.
Chen, Shan-te, Wahn, H., Turner, W.A., Taylor, J.D. & Tchen, T.T. (1974) *Recent Progr.Horm.Res.* 30, 319.
- Symposium: Developmental genetics.
Church, R.B., chairman (1974) *Genetics*, 78, 351-402.
- Cancer, differentiation and embryonic antigens: some central problems.
Coggin, J.H. & Anderson, N.G. (1974) *Advan.Cancer Res.* 19, 106.
- Part I. Epidermal growth factor: Chemical and biological characterization.
Cohen, S. & Taylor, J.M. (1974) *Recent Progr.Horm.Res.* 30, 533.
- Part II. Recent studies on the chemistry and biology of epidermal growth factor.
Cohen, S. & Savage, jr, C.R. (1974) *Recent Progr.Horm.Res.* 30, 551.
- The development of the immune system.
Cooper, M.D. & Lawton, III, A.R. (1974) *Sci.Amer.* 231, no.5, 58-72.
- Control of expression of differentiated functions in somatic cell hybrids.
Davidson, R.L. (1974) In: Somatic cell hybridization (Davidson, R.L. & de la Cruz, F.F., eds) Raven Press, p.131.
- Regulation of cell proliferation and regeneration in mammalian liver by corticosteroids and α -fetoglobulin.
Desser-Wiest, L. (1974) *Wien.Klin.Wochenschr.* 86, 390.
- Environment-dependent brain differentiation and fundamental processes of life. [Review letter]
Dörner, G. (1974) *Acta Biol.Med.Ger.* 23, 129.
- Ageing in differentiated cells. [Critical review]
Franks, L.M. (1974) *Gerontologia - Basel*, 20, 51.
- Development and regeneration in the nervous system.
Gaze, R.M. & Keating, M.J., scientific eds (1974) *Brit.Med.Bull.* 30, No.2, 105-189.
- Molecular models and combinatorial principles in cell differentiation and morphogenesis.
Gierer, A. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 951.
- Hydra as a model for the development of biological form.
Gierer, A. (1974) *Sci.Amer.* 231, no.6, 44-54.
- Endocrine action during insect growth.
Gilbert, L.I. (1974) *Recent Progr.Horm.Res.* 30, 347.
- Morphology, histochemistry, and biochemistry of human oogenesis and ovulation.
Guraya, S.S. (1974) *Int.Rev.Cytol.* 37, 121.
- Macromolecules regulating growth and development.
Hay, E.D., King, T.J. & Papaconstantinou, J., eds (1974) 244pp., Academic Press.
- Biochemical bases of the development of physiological functions.
Henning, S.J. & others (1973) *Enzyme*, 15, 1.
- Regulation of enzyme activity during differentiation in *Dictyostelium discoideum*.
Killick, K.A. & Wright, B.E. (1974) *Annu.Rev.Microbiol.* 28, 139.
- Problems of differentiation in haemopoiesis.
Lajtha, L.G. & Schofield, R. (1974) *Differentiation*, 2, 313.
- Protein-calorie malnutrition in children and its relation to psychological development and behavior.
Latham, M.C. (1974) *Physiol.Rev.* 54, 541.
- Electrically mediated growth mechanisms in living systems.
Liboff, A.R. & Rinaldi, R.A., eds (1974) *Ann.N.Y. Acad.Sci.* 238, 5.
- Genetic and endocrine disorders of sex development.
Symposium Levico (Trento), October 1973.
Lyon, M.F. & others (1974) *Helv.Paediatr.Acta, Suppl.* 34, 7.
- Review lecture: The determinants of growth and form.
McCance, R.A. & Widdowson, E.M. (1974) *Proc.Roy. Soc.London, Ser.B*, 185, 1-17.
- Gene control of mammalian differentiation.
Mintz, B. (1974) *Annu.Rev.Genet.* 8, 411.
- Biochemistry of cell differentiation. Seventh FEBS meeting, Varna (Bulgaria), September 1971.
Monroy, A. & Tsanev, R., eds (1973) *FEBS Symp.* 24, 191pp.
- Membrane flow and differentiation: origin of Golgi apparatus membranes from endoplasmic reticulum.
Morré, D.J., Keenan, T.W. & Huang, C.M. (1974) *Advan.Cytopharmacol.* 2, 107.
- Report of a conference on protein and amino acid needs for growth and development.
Munro, H.N. (1974) *Amer.J.Clin.Nutr.* 27, 55.
- Cell junctions and their development.
Overton, J. (1974) *Progr.Surf.Membrane Sci.* 8, 161.
- Biomembranes - architecture, biogenesis, bioenergetics and differentiation. Proceedings of the international symposium on biomembranes, Madurai University, India, December 1973.
Packer, L., ed. (1974) 423pp., Academic Press.
- Axon and cell numbers in the developing nervous system.
Prestige, M.C. (1974) *Brit.Med.Bull.* 30, 107-111.
- Maturation of cellular and humoral immunity during human embryonic development.
Prindull, G. (1974) *Acta Paediatr.Scand.* 63, 607.
- Differentiation of eukaryotic cells in culture.
Prunieras, M., Robert, L. & Rosenfeld, C., eds (1973) 299pp., INSERM.

The role of cyclic AMP in slime mold development.

[Minireview]

Robertson, A. & Grutsch, J. (1974) *Life Sci.* 15, 1031-1043.

Genetic mechanisms of development.

Ruddle, F.H., ed. (1973) 383pp., Academic Press.

Isoenzymes in development and differentiation.

Scandalios, J.G. (1974) *Annu.Rev.Plant Physiol.* 25, 225.

Neoplasia and cell differentiation.

Sherbet, G.V., ed. (1974) 411pp., S.Karger.

Follicle stimulating hormone and the differentiation of neural tissue.

Sherbet, G.V. & Lakshmi, M.S. (1974) *Differentiation*, 2, 51.

Basic mechanisms in plant morphogenesis: Report of symposium held June 4-6, 1973.

Smith, H.H. & others (1973) *Brookhaven Symp.Biol.* no. 25.

Nucleocytoplasmic interactions in development of amphibian hybrids.

Subtelny, S. (1974) *Int.Rev.Cytol.* 39, 35.

Early malnutrition, growth and mental development in man.

Tizard, J. (1974) *Brit.Med.Bull.* 30, 169-174.

The biochemistry of cytodifferentiation.

Truman, D.E.S. (1974) Blackwell Scientific.

Study of factors influencing prenatal brain development.

Zamenhof, S. & van Marthens, E. (1974) *Mol.Cell. Biochem.* 4, 157.

A possible role of "inert" heterochromatin in cell differentiation. Action of and competition for "locking molecules".

Zuckerkindl, E. (1974) *Biochimie*, 56, 937.

GUANOSINE MONOPHOSPHATE

Analogues of cyclic AMP and cyclic GMP: general methods of synthesis and the relationship of structure to enzymic activity. [Minireview]

Meyer, jr, R.B. & Miller, J.P. (1974) *Life Sci.* 14, 1019-1040.

Cyclic AMP and cyclic GMP.

Posternak, T. (1974) *Annu.Rev.Pharmacol.* 14, 23.

GUT

Candidate hormones of the gut.

Grossman, M.I. & others (1974) *Gastroenterology*, 67, 730.

The neuroendocrine design of the gut. The play of chemicals in a chemical playground.

Makhlouf, G.M. (1974) *Gastroenterology*, 67, 159.

HAEM

Regulation of porphyrin and heme biosynthesis. Part II. Proceedings of the international research conference on regulation of porphyrin and heme biosynthesis, Marburg a.d.Lahn, June 28 - July 1, 1973.

Joubert, S.M., moderator (1974) *Enzyme*, 17, nos.1-2.

HAEMOGLOBIN

Heme proteins: hemoglobin.

Antonini, E. (1974) *FEBS Lett.* 40, Suppl., S98-S111.

Mechanism of action of hemoglobin.

Arnone, A. (1974) *Annu.Rev.Med.* 25, 123.

On the respiratory function of haemoglobin.

Bauer, C. (1974) *Rev.Physiol.Biochem.Pharmacol.* 70, 1-31.

The mechanism of interaction of red cell organic phosphates with hemoglobin.

Benesch, R.E. & Benesch, R. (1974) *Advan.Protein Chem.* 28, 211-237.

Haemoglobin stability tests.

Carrell, R.W. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 62.

Separation of the peptide chains of human hemoglobins.

Clegg, J.B. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 77.

Thalassemia: an abnormality in globin chain synthesis. [Invited review]

Freedman, M.L. (1974) *Amer.J.Med.Sci.* 267, 256.

Haemoglobin degradation and bilirubin formation.

Gems, D. & Schmid, R. (1974) *Klin.Wochenschr.* 52, 609.

Chromatographic determination of HbA₂.

Huisman, T.H.J. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 57.

Chromatography of hemoglobin variants.

Huisman, T.H.J. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 71.

Column chromatography of hemoglobin peptides.

Jones, R.T. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 99.

Hemoglobins: Comparative molecular biology models for the study of disease.

Kitchen, H. & Boyer, S.H., eds (1974) *Ann.N.Y.Acad. Sci.* 241, 5.

Determination of fetal hemoglobin - elution technique

Kleihauer, E. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 50.

Structure-function relationship in normal and abnormal hemoglobins.

Kleihauer, E. (1974) *Klin.Wochenschr.* 52, 995.

Regulated expression of mammalian genes: globin and immunoglobulin as model systems.

Leder, P., Ross, J., Gielen, J., Packman, S., Ikawa, Y., Aviv, H. & Swan, D. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 753.

Biochemical and physiological properties of carbamylated hemoglobin S.

Manning, J.M., Cerami, A., Gillette, P.N., deFuria, F.G. & Miller, D.R. (1974) *Advan.Enzymol.* 40, 1.

The globin gene: structure and expression.

Paul, J., Gilmour, R.S., Affara, N., Birnie, G., Harrison, P., Hell, A., Humphries, S., Windass, J. & Young, B. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 885.

Hemoglobinopathies.

Ramsey, H.M., guest ed. (1974) *Semin. Hematol.* 11, 383.

Identification of hemoglobins by electrophoresis.

Schneider, R.G. (1974) *CRC Crit. Rev. Clin. Lab. Sci.* 5, 41.

Molecular basis for some disorders of haemoglobin synthesis - I and II. [Based on the 1974 Watson Smith lecture given at the Royal College of Physicians of London on 8 May 1974]

Weatherall, D.J. (1974) *Brit. Med. J.* 4, 451-454; 516-519.

Fetal hemoglobin: whole blood quantitation and intracellular distribution.

White, J.M. (1974) *CRC Crit. Rev. Clin. Lab. Sci.* 5, 53.

Peptide mapping of hemoglobin.

Winter, W.P. & Rucknagel, D.L. (1974) *CRC Crit. Rev. Clin. Lab. Sci.* 5, 79.

HEART

Symposium on myocardial metabolism, proceedings of a symposium held in Ponte Vedra, Florida, November 1973.

Braunwald, E., ed. (1974) *Circ. Res.* 35, Suppl. 3.

The pre-beta₁ lipoprotein phenomenon in relation to serum cholesterol and triglyceride levels, the Lp(a) lipoprotein and coronary heart disease.

Dahlen, G. (1974) *Acta Med. Scand.*, Suppl. 570, 44pp.

The role of cyclic AMP in the modulation of cardiac contractility.

Entman, M.L. (1974) *Advan. Cyclic Nucl. Res.* 4, 163.

Hyperkalemia, cardiac conduction, and the electrocardiogram: A review.

Ettinger, P.O., Regan, T.J. & Oldewurtel, H.A. (1974) *Amer. Heart J.* 88, 360.

The biological effect of polyamines on heart RNA and histone metabolism.

Moruzzi, G., Caldarera, C.M. & Casti, A. (1974) *Mol. Cell. Biochem.* 3, 153.

Exchange of calcium ions in the mammalian myocardium: mechanisms and physiological significance.

Reuter, H. (1974) *Circ. Res.* 34, 599.

Magnesium interrelationships in ischemic heart disease: a review.

Seelig, M.S. & Heggteit, H.A. (1974) *Amer. J. Clin. Nutr.* 50, 59.

The action of anabolic steroids on the cardiovascular system. (Literature survey) [In Russian: English abstract]

Seliverstov, S.A. (1974) *Farmakol. Toksikol.* 37, 242.

HELMINTHS

The biochemistry of helminths. [Review lecture of the 3rd International Congress of Parasitology, Munich, August 1974]

Brand, Th. von (1974) *Z. Parasitenkd.* 45, 109.

HISTAMINE

See: AMINES

HISTONES

Biology of the histones. [Minireview]

Bonner, J. & Garrard, W.T. (1974) *Life Sci.* 14, 209-221.

The biological effect of polyamines on heart RNA and histone metabolism.

Moruzzi, G., Caldarera, C.M. & Casti, A. (1974) *Mol. Cell. Biochem.* 3, 153.

X-ray diffraction studies on oriented nucleohistone gels.

Pardon, J.F., Richards, B.M. & Cotter, R.I. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 75.

HORMONES AND REGULATORY SUBSTANCES

See also: CATECHOLAMINES

GLUCAGON

INSULIN

PROSTAGLANDINS

Sex-hormone-binding globulin.

Anderson, D.C. (1974) *Clin. Endocrinol.* 3, 69.

Regulation by hormones in man and in animals.

Aoki, T.T. & others (1974) *Advan. Enzyme Regul.* 12, 157-183.

The fifth annual Carl G. Hartman lecture. Behavioral endocrinology and the study of reproduction.

Beach, F.A. (1974) *Biol. Reprod.* 10, 2.

Hormonal effects on human myometrial activity.

Bengtsson, L.P. (1973) *Vitam. Horm.* 31, 257-303.

Hypothalamic regulatory hormones: a review.

Besser, C.M. & Mortimer, C.H. (1974) *J. Clin. Pathol.* 27, 173-184.

Receptors and acceptors: a necessary distinction in hormone binding studies.

Birnbaumer, L., Pohl, S.L. & Kaumann, A.J. (1974) *Advan. Cyclic Nucl. Res.* 4, 239.

Integration of the secretory control mechanisms for insulin, glucagon, and growth hormone.

Blackard, W.G. & Andrews, S.S. (1974) *Curr. Top. Exp. Endocrinol.* 2, 130.

Hormones of the gastrointestinal tract.

Bloom, S.R. (1974) *Brit. Med. Bull.* 30, 62-67.

Biochemical changes during progesterone-induced maturation in *Xenopus laevis* oocytes.

Brachet, J., Baltus, E., de Schutter, A., Hanocq-Quertier, F., Hubert, E., Jacobelli, S. & Steinert, G. (1974) *Mol. Cell. Biochem.* 3, 189.

- Symposium on hormones and the kidney.
Bradley, S.E. & others (1974) *Kidney Int.* 6, 261.
- The neurophysins.
Breslow, E. (1974) *Advan.Enzymol.* 40, 271.
- Essentielle Hypertonie: Renin und Aldosteron, Schlüssel zu Pathogenese und Therapie? [Renin and aldosterone: the key to pathogenesis and treatment of essential hypertension?]
Bühler, F.R. (1974) *Schweiz.Med.Wochenschr.* 104, 1013.
- Thyroid hormone.
Burke, C.W. & Eastman, C.J. (1974) *Brit.Med.Bull.* 30, 93-99.
- Current concepts on somatomedin (sulphation factor). [In French: English abstract]
Camerlain, M. (1974) *Union Med.Can.* 103, 107.
- Posterior pituitary peptides.
Chard, T. & Martin, M.J. (1974) *Brit.Med.Bull.* 30, 74-79.
- Cytochemical bioassay of hormones. [Minireview]
Chayen, J., Bitensky, L. & Daly, J.R. (1974) *Life Sci.* 15, 191-201.
- MSH, cyclic AMP, and melanocyte differentiation.
Chen, Shan-te, Wahn, H., Turner, W.A., Taylor, J.D. & Tchen, T.T. (1974) *Recent Progr.Horm.Res.* 30, 319.
- Regulation of biosynthesis of catecholamines and serotonin in the CNS.
Costa, E. & Meek, J.L. (1974) *Annu.Rev.Pharmacol.* 14, 491.
- Insulin receptors, cell membranes and hormone action. [Commentary]
Cuatrecasas, P. (1974) *Biochem.Pharmacol.* 23, 2353.
- Daily rhythms of steroid and associated pituitary hormones in man and their relationship to sleep.
Daly, J.R. & Evans, J.I. (1974) *Advan.Steroid Biochem.Pharmacol.* 4, 61.
- Human prolactin.
Daughaday, W.H. & Jacobs, L.S. (1972) *Ergeb.Physiol. Biol.Chem.Exp.Pharmacol.* 67, 169-194.
- Agents which block the action of the renin-angiotensin system.
Davis, J.O., Freeman, R.H., Johnson, J.A. & Spielman, W.S. (1974) *Circ.Res.* 34, 279.
- Brain-adrenal interactions.
Dell, P. & Kordan, C., eds (1974) 353pp., INSERM.
- Hormonal contraception. [Minireview]
Dorfman, R.I. (1974) *Life Sci.* 14, 827-835.
- Thyroid thermogenesis and active sodium transport.
Edelman, I.S. & Ismail-Beigi, F. (1974) *Recent Progr.Horm.Res.* 30, 235.
- Sex hormones - effects on prolactin cells.
El Etreby, M.F. & Günzel, P. (1974) *Acta Endocrinol.* 76, Suppl.189, 15pp.
- Rapid responses to plant hormones.
Evans, M.L. (1974) *Annu.Rev.Plant Physiol.* 25, 195.
- Androgens and erythropoiesis.
Evans, R.P. & Amerson, A.B. (1974) *J.Clin.Pharmacol.* 14, 94.
- Immunology of gonadal steroids.
Ferlin, M., Beiser, S.M. & Vande Wiele, R.L. (1973) *Vitam.Horm.* 31, 175-200.
- Modification of brain serotonin by the diet.
Fernstrom, J.D. (1974) *Annu.Rev.Med.* 25, 1.
- Endocrine mechanisms in marine invertebrates. [Minireview]
Fingerman, M. (1974) *Life Sci.* 14, 1007-1018.
- Endocrine action during insect growth.
Gilbert, L.I. (1974) *Recent Progr.Horm.Res.* 30, 347.
- A survey of neuroendocrine phenomena in non-arthropod invertebrates.
Golding, D.W. (1974) *Biol.Rev.Cambridge Phil.Soc.* 49, 161.
- Neurosecretory hormones in insects.
Goldsworthy, G.J. & Mordue, W. (1974) *J.Endocrinol.* 60, 529-558.
- Fungal sex hormones.
Gooday, G.W. (1974) *Annu.Rev.Biochem.* 43, 35-49.
- Erythropoietin.
Gordon, A.S. (1973) *Vitam.Horm.* 31, 105-174.
- Insulin secretion and gastrointestinal hormones in chronic pancreatitis.
Grabner, W. (1974) *Acta Hepato-Gastroenterol.* 21, 388.
- Hypothalamic control of anterior pituitary hormone secretion-characterized hypothalamic-hypophysiotropic peptides.
Grant, G.F. & Vale, W. (1974) *Curr.Top.Exp.Endocrinol.* 2, 38.
- The Bayliss-Starling Lecture 1973. The gastrointestinal hormones: a review of recent advances.
Gregory, R.A. (1974) *J.Physiol., London*, 241, 1.
- Candidate hormones of the gut.
Grossman, M.I. & others (1974) *Gastroenterology*, 67, 730.
- Radio-immunoassay of human plasma parathormone. [Progress report]
Gueris, J. (1974) *Nouv.Presse Med.* 3, 1612.
- Growth hormone and somatomedin.
Hall, K. & Luft, R. (1974) *Advan.Metab.Disord.* 7, 1.
- Somatomedin.
Hall, K. & Van Wyk, J.J. (1974) *Curr.Top.Exp.Endocrinol.* 2, 156.
- Methods in Enzymology, vol XXXVIII: Hormone action, part C, cyclic nucleotides.
Hardman, J.G. & O'Malley, B.W., eds (1974) 454pp.
- Molecular aspects in comparative endocrinology: Opening address delivered at the Seventh Conference of European Comparative Endocrinologists.
Heller, H. (1974) *Gen.Comp.Endocrinol.* 22, 315.
- Clinical application of thyrotropin-releasing hormone.
Hershman, J.M. (1974) *N.Engl.J.Med.* 290, 886.
- Pituitary and placental glycopeptide hormones.
Jacobs, H.S. & Lawton, N.F. (1974) *Brit.Med.Bull.* 30, 55-61.
- Methods of Hormone Radioimmunoassay.
Jaffe, B.M. & Behrman, H.R., eds (1974) 520pp., Academic Press.
- Review of the induction of cycling of erythropoietin sensitive cells by androgens and their 5 β -H-metabolites.
Jepson, J.H., Leonard, R.A., Gorshein, D., Gardner, F.H. & Besa, E. (1974) *Biomedicine*, 20, 262.

- Insulin, growth hormone, and glucagon in prediabetes mellitus - a review.
Johansen, K., Soeldner, J.S. & Gleason, R.E. (1974) *Metabolism*, 23, 1185.
- Luteinizing hormone and human chorionic gonadotropin: structure and activity.
Jutisz, M. & Tertrin-Clary, C. (1974) *Curr.Top.Exp.Endocrinol.* 2, 197.
- Affinity labeling of hormone binding sites.
Katzenellenbogen, J.A. (1974) *Annu.Rep.Med.Chem.* 7, 222.
- On the control of gonadotropin secretion in the rhesus monkey.
Knobil, E. (1974) *Recent Progr.Horm.Res.* 30, 1.
- Role of physical and neuroendocrine factors in proximal electrolyte reabsorption.
Knox, F.G. & Davis, B.R. (1974) *Metabolism*, 23, 793.
- The search for the active core of pituitary growth hormone. [Progress in endocrinology and metabolism]
Kostyo, J.L. (1974) *Metabolism*, 23, 885.
- Recent studies of hypothalamic function. Proceedings of international symposium, Calgary, May 1973.
Lederis, K. & Cooper, K.E., eds (1974) 434pp., S.Karger (Basel).
- Substance P. [Minireview]
Leeman, S.E. & Mroz, E.A. (1974) *Life Sci.* 15, 2033-2044.
- Pheromones as a means of genetic control of behavior.
Leonard, J.E., Ehrman, L. & Pruzan, A. (1974) *Annu.Rev.Genet.* 8, 179.
- Natriuretic hormones.
Levinsky, N.G. (1974) *Advan.Metab.Disord.* 7, 38.
- Gonadotropin action on cultured Graafian follicles: induction of maturation division of the mammalian oocyte and differentiation of the luteal cell.
Lindner, H.R., Tsafiriri, A., Lieberman, M.E., Zor, U., Koch, Y., Bauminger, S. & Barnea, A. (1974) *Recent Progr.Horm.Res.* 30, 79.
- Cell membranes of thyroid and its altered responsiveness to the hormone TSH.
Macchia, V. & Meldolesi, M. (1974) *Advan.Cytopharmacol.* 2, 33.
- Role of gastrin in hypersecretory disorders in man.
McGuigan, J.E. (1974) *Annu.Rev.Med.* 25, 233.
- Hormone dependence in breast cancer.
McGuire, W.L., Chamness, G.C., Costlow, M.E. & Shepherd, R.E. (1974) *Metabolism*, 23, 75.
- Molecular effects of hormones in breast cancer: estrogen receptors. [Minireview]
McGuire, W.L., Chamness, G.C. & Shepherd, R.E. (1974) *Life Sci.* 14, 19-33.
- Parathyroid hormone, calcitonin, and vitamin D.
MacIntyre, I. (1974) *Curr.Top.Exp.Endocrinol.* 2, 179.
- Hormones and cancer.
McKerns, K.W., ed. (1974) 394pp., Academic Press.
- Early sequence of biochemical events in the action of follicle stimulating hormone on the testis. [Minireview]
Means, A.R. (1974) *Life Sci.* 15, 371-389.
- Is adenosine the mediator for the regulation of the coronary circulation and for the efficiency of coronarodilators?
Meisel, M. & Meisel, P. (1974) *Pharmazie*, 29, 561.
- Sympathetic regulation of thyroid hormone secretion. [Minireview]
Melander, A., Ericson, L.E. & Sundler, F. (1974) *Life Sci.* 14, 237-246.
- Pro-hormones in tissues and in circulation.
Melani, F. (1974) *Horm.Metab.Res.* 6, 1.
- Isolated growth hormone deficiency and related disorders.
Merimee, T.J. (1974) *Annu.Rev.Med.* 25, 137.
- Aldosterone: current concepts.
Morris, D.J. & Davis, R.P. (1974) *Metabolism*, 23, 473.
- Gonadotropins and gonadal function.
Moudgal, N.R., ed. (1974) 565pp., Academic Press.
- Gonadotropins and their antibodies.
Moudgal, N.R., Rao, A.J., Maneckjee, R., Muralidhar, K., Mukku, V. & Rani, C.S.S. (1974) *Recent Progr.Horm.Res.* 30, 47.
- Mode d'action et régulation de l'aldostérone. [Mode of action and regulation of aldosterone]
Muller, A.F. & Vallotton, M.B. (1974) *Schweiz.Med.Wochenschr.* 104, 905.
- Effects of corticosteroids on connective tissue and fibroblasts.
Nacht, S. & Garzon, P. (1974) *Advan.Steroid Biochem.Pharmacol.* 4, 157.
- Hormones, metabolism and stress. Proceedings of a symposium held at Smolenice Castle, Czechoslovakia, Sept. 1972.
Németh, Š., ed. (1973) 322pp., Slovak Academy of Sciences.
- The renin-angiotensin system.
Oparil, S. & Haber, E. (1974) *N.Engl.J.Med.* 291, 389-401; 446-457.
- Endocrine tumours of neural crest origin: neuroblastomas, apudomas and the APUD concept.
Pearse, A.G.E. & Polak, J.M. (1974) *Med.Biol.* 52, 3.
- Storage and release of vasopressin from neurosecretory granules and neurohypophysis.
Poisner, A.M. & Hong, J.A. (1974) *Advan.Cytopharmacol.* 2, 303.
- Hormonal control of oovimplantation.
Psychoyos, A. (1973) *Vitam.Horm.* 31, 201-256.
- Heterogeneity of polypeptide hormones.
Rabinowitz, D. & Roth, J., guest eds (1974) *Isr.J.Med.Sci.* 10, 1183.
- Advances in human growth hormone research. A Symposium of the National Pituitary Agency, sponsored by the National Institute of Arthritis, Metabolism and Digestive Diseases, Baltimore, Maryland, October 9-12, 1973.
Raiti, S., ed. (1974) 961pp., U.S. Dept. Health, Education and Welfare, Washington, D.C.
- Protein and polypeptide hormone as inhibitors. [Minireview]
Ramachandran, J. (1974) *Life Sci.* 14, 993-1005.

- Ectopic hormone production by non-endocrine tumours.
Rees, L.H. & Ratcliffe, J.G. (1974) *Clin.Endocrinol.* 3, 263.
- Pharmacology of angiotensin.
Regoli, D., Park, W.K. & Rioux, F. (1974) *Pharmacol. Rev.* 26, 69.
- Emerging concepts of the nature of circulating parathyroid hormones: implications for clinical research.
Reiss, E. & Canterbury, J.M. (1974) *Recent Progr. Horm. Res.* 30, 391.
- Biochemistry of hormones.
Rickenberg, H.V., ed. (1974) 342pp., University Park Press: Butterworths.
- Vasopressin in osmotic regulation in man.
Robertson, G.L. (1974) *Annu.Rev.Med.* 25, 315.
- Gastrin: a review.
Rooney, P.J., Grennan, D. & Millar, J. (1974) *Curr. Med.Res.Opin.* 2, 295-304.
- Das Magenantrumhormon Gastrin. I.Teil. (The antral hormone gastrin).
Säuberli, H., Largiader, F. & Vetter, W. (1974) *Schweiz.Med.Wochenschr.* 104, 709.
- Das Magenantrumhormon Gastrin. II.Teil. (The antral hormone gastrin).
Säuberli, H., Largiader, F. & Vetter, W. (1974) *Schweiz.Med.Wochenschr.* 104, 745.
- The sex-attractant receptor of moths.
Schneider, D. (1974) *Sci.Amer.* 231, no.1, 28-35.
- Metabolism of auxin in higher plants.
Schneider, E.A. & Wightman, F. (1974) *Annu.Rev. Plant Physiol.* 25, 487.
- Adrenocorticotrophic hormone and the control of adrenal corticosteroidogenesis.
Schulster, D. (1974) *Advan.Steroid Biochem.Pharmacol.* 4, 233.
- The action of anabolic steroids on the cardiovascular system. [Literature survey] [In Russian: English abstract]
Seliverstov, S.A. (1974) *Farmakol.Toksikol.* 37, 242.
- Membrane-bound enzymes and hormones. A.4.
Semenza, G. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges, 1973.* pp.245-282, Pergamon.
- Follicle stimulating hormone and the differentiation of neural tissue.
Sherbet, G.V. & Lakshmi, M.S. (1974) *Differentiation*, 2, 51.
- Chemotaxis: its biology and biochemistry.
Sorkin, E., ed. (1974) 467pp., S.Karger (Basel).
- Insect hormones and their bioanalogs as potential insecticides.
Sorm, F. (1974) *FEBS Lett.* 40, Suppl. S128-S132.
- Gastrin and insulin hypoglycaemia. A review of studies on gastrin determination and hypoglycaemic release of gastrin in man.
Stadil, F. (1974) *Scand.J.Gastroenterol.* 9, Suppl. 23, 45pp.
- Molecular events taking place during intracellular transport of exportable proteins. The conversion of peptide hormone precursors.
Steiner, D.F., Kemmler, W., Tager, H.S. & Rubenstein, A.H. (1974) *Advan.Cytopharmacol.* 2, 195.
- Chemische und biochemische Aspekte der Releasing Hormone. (Chemical and biochemical aspects of the releasing hormone) [In German: English abstract]
Studer, R.O. (1974) *Wien.Klin.Wochenschr.* 86, 57.
- The lysosome as a mediator of hormone action.
Szego, C.M. (1974) *Recent Progr.Horm.Res.* 30, 171.
- Peptide hormones.
Tager, H.S. & Steiner, D.F. (1974) *Annu.Rev.Biochem.* 43, 509-538.
- Fifty years of plant hormone research.
Thimann, K.V. (1974) *Plant Physiol.* 54, 450.
- Mechanism of action of glucocorticoids.
Thompson, E.B. & Lippman, M.E. (1974) *Metabolism*, 23, 159.
- Thymic hormones and the immune response.
Trainin, N. (1974) *Physiol.Rev.* 54, 272.
- Serum triiodothyronine in man.
Utiger, R.D. (1974) *Annu.Rev.Med.* 25, 289.
- Anabolic steroid agents. (Literature survey) [In Russian: English abstract]
Uzbekova, D.G. (1974) *Farmakol.Toksikol.* 37, 484.
- Perspectives on the renin angiotensin aldosterone system in hypertension.
Vagnucci, A.H. & Shapiro, A.P. (1974) *Metabolism*, 23, 273.
- The relation of prolactin and mammary gland carcinogenesis.
Van Der Gugten, A.A. & Verstraeten, A.A. (1973) *Methods Cancer Res.* 10, 161.
- The somatomedins: a family of insulinlike hormones under growth hormone control.
Van Wyk, J., Underwood, L.E., Hintz, R.L., Clemmons, D.R., Voina, S.J. & Weaver, R.P. (1974) *Recent Progr.Horm.Res.* 30, 259.
- Molecular events in hormone action. Proceedings of a Symposium at IX Acta Endocrinologica Congress, Oslo, June 1973.
Walaas, O. & Walaas, E., eds (1974) *Acta Endocrinol.* 77, Suppl.191, 9.
- Androgen receptors in nonhistone protein fractions of prostatic chromatin.
Wang, T.Y. & Nyberg, L.M. (1974) *Int.Rev.Cytol.* 39, 1.
- The response of the thyroid gland and thyroid hormone metabolism to infectious disease.
Wartofsky, L. (1974) *Horm.Res.* 5, 112.
- Steroid hormones and breast cancer.
Williams, D.C. (1974) *Advan.Steroid Biochem.Pharmacol.* 4, 209.
- The estrogen receptor. [Minireview]
Williams, D.L. (1974) *Life Sci.* 15, 583-597.
- Morphogenic action of insect hormones.
Willis, J.H. (1974) *Annu.Rev.Entomol.* 19, 97.
- Metabolic hormones and regulation of body weight.
Woods, S.C., Decker, E. & Vasselli, J.R. (1974) *Psychol.Rev.* 81, 26.
- Heterogeneity of peptide hormones.
Yalow, R.S. (1974) *Recent Progr.Horm.Res.* 30, 597.
- Symposium issue: mechanism of ovulation.
Zamboni, L. & others (1974) *Biol.Reprod.* 10, 125.

Molecular organization of rat prolactin secretory granules.

Zanini, A. & Giannattasio, G. (1974) *Advan.Cyto-pharmacol.* 2, 329.

HYDROCARBONS

Formation of hydrocarbons by micro-organisms.

Bird, C.W. & Lynch, J.M. (1974) *Chem.Soc.Rev.* 3, 309.

Toxicity of chlorinated biphenyls.

Fishbein, L. (1974) *Annu.Rev.Pharmacol.* 14, 139.

Chemical, biochemical and toxicological differences between carbon tetrachloride and chloroform. A critical review of recent investigations of these compounds in mammals.

Hathway, D.E. (1974) *Arzneimittelforschung*, 24, 173.

Theory of carcinogenic activity of aromatic hydrocarbons.

Herndon, W.C. (1974) *Trans.N.Y.Acad.Sci.* 36, 200.

The toxicity of polychlorinated polycyclic compounds and related chemicals (313 references).

Kimbrough, R.D. (Barnes, J.M., referee) (1974) *CRC Crit.Rev.Toxicol.* 2, 445.

Epoxides in polycyclic aromatic hydrocarbon metabolism and carcinogenesis.

Sims, P. & Grover, P.L. (1974) *Advan.Cancer Res.* 20, 166.

IMMUNOGLOBULINS

Recombination of immunoglobulin polypeptide chains. [In English and Spanish, followed by 5 reprinted articles]

Bigelow, C.C. (1974) *PAABS Rev.* 3, 343-400.

Immunoglobulins.

Bradley, J. (1974) *J.Med.Genet.* 11, 80.

On the control between cell-mediated IgM and IgG immunity. [Hypothesis]

Bretscher, P.A. (1974) *Cell.Immunol.* 13, 171.

Anomalies de structure des immunoglobulines: leurs apports dans l'étude du contrôle génétique de la synthèse de ces protéines.

Dantant, M., Rivat, C. & Ropartz, C. (1974) *Ann. Genet.Paris*, 17, 145-155.

Immunoglobulin genes: a test of somatic vs. germ line hypothesis by RNA/DNA hybridization.

Delovitch, T. & Baglioni, C. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 739.

Immunoglobulins of class E (Reagins). (Literature survey) [In Russian: English abstract]

Gyulling, E.V. & Dyugovskaya, L.A. (1974) *Zh.Mikrobiol.Epidemiol.Immunobiol.* No.11, 17.

Immunoglobulin A. [Biological review]

Halpern, B. (1974) *Rev.Fr.Allergol.* 14, 149.

Immunoglobulin E and reaginic hypersensitivity. [Dean's lecture]

Ishizaka, K. (1974) *Johns Hopkins Med.J.* 135, 67.

Immunoglobulin E. Biochemische, immunologische Eigenschaften und klinische Bedeutung. Immunoglobulin E. Biochemical, immunological properties and clinical significance.

Lamerz, R. & Fateh-Moghadam, A. (1974) *Klin.Wochenschr.* 52, 1.

Regulated expression of mammalian genes: globin and immunoglobulin as model systems.

Leder, P., Ross, J., Gielen, J., Packman, S., Ikawa, Y., Aviv, H. & Swan, D. (1973) *Cold Spring Harb. Symp.Quant.Biol.* 38, 753.

Immunoglobulins in populations of Subtropical and Tropical countries.

McFarlane, H. (1973) *Advan.Clin.Chem.* 16, 154.

Secretion of immunoglobulins.

Melchers, F. & Andersson, J. (1974) *Advan.Cyto-pharmacol.* 2, 225.

The physiological role of γ -globulin.

Najjar, V.A. (1974) *Advan.Enzymol.* 41, 129.

Immunoglobulin genes: arranged in tandem or in parallel?

Smithies, O. (1973) *Cold Spring Harb.Symp.Quant. Biol.* 38, 725.

Biological activities of immunoglobulins of different classes and subclasses.

Spiegelberg, H.L. (1974) *Advan.Immunol.* 19, 259.

La génétique des immunoglobulines et de la réponse immunitaire: Colloque international, mai 1973, Paris.

Todd, C.W. & others (1974) *Ann.Immunol. - Inst. Pasteur*, 125, Nos.1-2.

Membrane immunoglobulins and antigen receptors on B and T lymphocytes.

Warner, N.L. (1974) *Advan.Immunol.* 19, 67.

IMMUNOLOGY AND IMMUNOCHEMISTRY

See also: IMMUNOGLOBULINS

Inhibitors of immune reactions. [Minireview]

Aisenberg, A.C. (1974) *Life Sci.* 15, 1861-1874.

Symposium on the immunobiology of complement.

Austen, K.F., guest ed. (1974) *Transplant.Proc.* 6, 1.

Proceedings of the second international symposium on cellular aspects of transplantation, June 1973, St. Paul, France.

Bach, F.H. & others (1973) *Transplant.Proc.* 5, 1501.

Recent observations related to the chemotherapy and immunology of gestational choriocarcinoma.

Bagshawe, K.D. (1973) *Advan.Cancer Res.* 18, 231-263.

Immunological aspects of chemical carcinogenesis.

Baldwin, R.W. (1973) *Advan.Cancer Res.* 18, 1-75.

The embryo as a transplant.

Beer, A.E. & Billingham, R.E. (1974) *Sci.Amer.* 230, no.4, 36-46.

The biological basis of immunosuppression.

Berenbaum, M.C. (1973) *Corneal graft failure: Ciba Foundn Symp.* pp.257-277.

- Genetisch kontrollierte Störungen des menschlichen Komplementsystems (I. Teil). [Genetically controlled disorders of the human complement system]
Brackertz, D. (1974) *Schweiz. Med. Wochenschr.* 104, 777.
- Components of immune recognition: detection and analysis.
Bullock, W.W. & others (1974) *Transplant. Rev.* 18, 3.
- Proceedings of the Immunological Conference Pavia, Villa d'Este, May 1974.
Burgio, G.R., Astraldi, G. & de Barbieri, A., eds (1974) *Boll. Ist. Sieroter. Milan.* 53, Suppl. 1, 117.
- Immune function and dysfunction in relation to aging. [Minireview]
Cheney, K.E. & Walford, R.L. (1974) *Life Sci.* 14, 2075-2084.
- Vaccines and cell-mediated immunity.
Collins, F.M. (1974) *Bacteriol. Rev.* 38, 371-402.
- The development of the immune system.
Cooper, M.D. & Lawton, III, A.R. (1974) *Sci. Amer.* 231, no. 5, 58-72.
- Cellular selection and regulations in the immune response.
Edelman, G.M., ed. (1974) 287pp., Raven Press.
- Immunologic mechanisms in the prevention and therapy of cancer.
Fleisher, T.A. & Kersey, J.H. (1974) *Amer. J. Dis. Child.* 128, 739.
- Genetic control of immune responses.
Green, I. (1974) *Immunogenetics*, 1, 4-21.
- Cell-mediated immunity to tumor cells.
Herberman, R.B. (1974) *Advan. Cancer Res.* 19, 207.
- Phylogeny of immune responsiveness in invertebrates.
Hildemann, W.H. (1974) *Life Sci.* 14, 605-614.
- Immunotherapy of cancer.
Hodson, A. & Wheelock, E.F. (1974) *Annu. Rep. Med. Chem.* 7, 151.
- Immunologic properties of antihemophilic factor.
Hoyer, L.W. (1973) *Progr. Hematol.* 8, 191-221.
- Immunologic modification: a basic survival mechanism.
Jacobs, B.B. & Uphoff, D.E. (1974) *Science*, 185, 582-587.
- Adjuvants to the immune system.
Johnson, A.G. (1974) *Annu. Rep. Med. Chem.* 9, 244.
- Mechanisms of immune defence. [Invited review]
Jose, D.G. (1974) *Aust. Paediat. J.* 10, 1.
- Zur Therapie der Glomerulonephritis mit Corticosteroiden und Immunsuppressiva. Treatment of glomerulonephritis with corticosteroids and immunosuppressive drugs. [In German: English abstract]
Kampf, D. & Baethke, R. (1974) *Dtsch. Med. Wochenschr.* 99, 1151.
- Immunological tolerance - mechanisms and potential therapeutic applications. Proceedings of international conference, Augusta, Michigan, April, 1974.
Katz, D.H. & Benacerraf, B., eds (1974) 645pp., Academic Press.
- Immunodeficiency and cancer.
Kersey, J.H., Spector, B.D. & Good, R.A. (1973) *Advan. Cancer Res.* 18, 211-230.
- Viruses, immune functions, and antigenic determinants in heterokaryons and hybrids.
Koprowski, H. & Knowles, B. (1974) In: Somatic cell hybridization (Davidson, R.L. & de la Cruz, F.F., eds) Raven Press, p. 71.
- Immunosuppression and carcinogenesis. A review.
Kripke, M.L. & Borsos, T. (1974) *Isr. J. Med. Sci.* 10, 888.
- Lymphoreticular neoplasia in immunosuppression: facts and fancies.
Krüger, G.R.F. (1974) *Beitr. Pathol.* 151, 221.
- The immune response to virally determined tumor associated antigens.
Lamon, E.W. (1974) *Biochim. Biophys. Acta*, 355, 149.
- Localized humoral immunity with particular reference to ruminants.
Lascelles, A.K. & McDowell, G.H. (1974) *Transplant. Rev.* 19, 170.
- Effect of chemotherapy on the immune response in acute leukemia. A review.
Leventhal, B.G., Cohen, P. & Triem, S.C. (1974) *Isr. J. Med. Sci.* 10, 866.
- The role of macrophages in defense against neoplastic disease.
Levy, M.H. & Wheelock, E.F. (1974) *Advan. Cancer Res.* 20, 131.
- Spontaneous autoimmune diseases of domestic animals.
Lewis, R.M. (1974) *Int. Rev. Exp. Pathol.* 13, 55.
- Viruses as immunological adjuvants in cancer.
Lindenmann, J. (1974) *Biochim. Biophys. Acta*, 355, 49.
- HL-A, immune-response genes, and disease. [Occasional survey]
McDevitt, H.O. & Bodmer, W.F. (1974) *Lancet*, I, 1269-1275.
- The immunological system of the digestive tract. [Biological review]
Moneret-Vautrin, D.-A. (1974) *Rev. Fr. Allergol.* 14, 37.
- Immunological specificity of carbohydrate structures: from Pasteur to the present day. [In English]
Morgan, W.T.J. (1974) *Bull. Inst. Pasteur*, 72, 131.
- Immunity to infection, allograft immunity and tumour immunity: parallels and contrasts.
Nelson, D.S. (1974) *Transplant. Rev.* 19, 226.
- Immunoendokrinologie. [Immunoendocrinology]
Niederer, W. (1974) *Schweiz. Med. Wochenschr.* 104, 841.
- Principles of immunological tolerance and immunocyte receptor blockade.
Nossal, G.J.V. (1974) *Advan. Cancer Res.* 20, 93.
- Co-operation between antibodies and cells in immunity to a nematode parasite.
Ogilvie, B.M. & Love, R.J. (1974) *Transplant. Rev.* 19, 147.
- Cyclic AMP and the immune response.
Parker, C.W., Sullivan, T.J. & Wedner, H.J. (1974) *Advan. Cyclic Nucl. Res.* 4, 1.
- Immunology of cancer: basic experiments and clinical progress.
Pasternak, G. (1973) *Arch. Geschwulstforsch.* 42, 345.

Survey of the methodological approaches to studying delayed hypersensitivity in vitro.

Pekárek, J. & Krejci, J. (1974) *J. Immunol. Methodol.* 6, 1.

Maturation of cellular and humoral immunity during human embryonic development.

Prindull, G. (1974) *Acta Paediatr. Scand.* 63, 607.

Immunology of cancer.

Richards, V., volume ed. (1974) *Progr. Exp. Tumor Res.* 19.

Present state of immunotherapy of tumours.

Rieche, K. (1974) *Arch. Geschwulstforsch.* 44, 167.

Correlation of in vivo and in vitro measurements of hemolysis in hemolytic anemia due to immune reactions.

Rosse, W.F. (1973) *Progr. Hematol.* 8, 51-75.

Immunology in neoplasia relating to diagnosis, therapy, and transplantation. Eighth annual ASCP Basic Science Research Symposium.

Russell, W.O. & others (1974) *Amer. J. Clin. Pathol.* 62, 165.

Development of the immune system.

Schwarz, J.A. (1974) *Klin. Wochenschr.* 52, 857.

Selected highlights in immunological research in the last decade.

Sela, M. (1974) *FEBS Lett.* 40, Suppl. S85-S97.

The immune system - genes, receptors, signals. Proceedings of the Third ICN-UCLA Symposium on Molecular Biology, Squaw Valley, California, March 1974.

Sercarz, E.E., Williamson, A.R. & Fox, C.F., eds (1974) 632pp., Academic Press.

Molecular biology of cellular membranes with applications to immunology.

Singer, S.J. (1974) *Advan. Immunol.* 19, 1.

Blocking and unblocking of cell-mediated tumor immunity.

Sjögren, H.O. (1973) *Methods Cancer Res.* 10, 19.

Tumour immunology.

Symes, M.O. (1974) *Brit. J. Surg.* 61, 929.

Role of rosette-forming cells in the immune response. (Survey of literature) [In Russian: English abstract]

Tischenko, E.V. & Stenina, M.A. (1974) *Zh. Mikrobiol. Epidemiol. Immunobiol.* No. 7, 112.

Thymic hormones and the immune response.

Trainin, N. (1974) *Physiol. Rev.* 54, 272.

Parke-Davis lecture: Cellular events following binding of antigen to lymphocytes.

Unanue, E.R. (1974) *Amer. J. Pathol.* 77, 1.

Histocompatibility, immunosuppression, and bone marrow transplantation.

Van Rood, J.J., guest ed. (1974) *Semin. Hematol.* 11, 229.

Nutrition and immunology. [Symposium]

Vitale, J.J. & Good, R.A., guest eds (1974) *Amer. J. Clin. Nutr.* 27, 623.

Activation, activities and pharmacologically active products of complement.

Vogt, W. (1974) *Pharmacol. Rev.* 26, 125.

Effector cells in cell-mediated immunity.

Wagner, H. & others (1973) *Transplant. Rev.* 17, 3.

Selective immunodepression. [Minireview]

Weksler, M.E. & Siskind, G.W. (1974) *Life Sci.* 15, 1875-1886.

Molecular immunology of Factor VIII.

Zimmerman, T.S. & Edgington, T.S. (1974) *Annu. Rev. Med.* 25, 303.

Immunologie in der Augenheilkunde. The place of immunology in ophthalmology. [In German: English abstract]

Zirm, M. & Schmut, O. (1974) *Wier. Klin. Wochenschr.* 86, 205.

INSECTS

Endocrine action during insect growth.

Gilbert, L.I. (1974) *Recent Progr. Horm. Res.* 30, 347.

Neurosecretory hormones in insects.

Goldsworthy, G.J. & Mordue, W. (1974) *J. Endocrinol.* 60, 529-558.

Advances in cytology and genetics of bees.

Kerr, W.E. (1974) *Annu. Rev. Entomol.* 19, 253.

Symposium on insecticide resistance in insects.

Plapp, jr, F.W. & others (1974) *J. Agric. Food Chem.* 22, 343.

Insect hormones and their bioanalogues as potential insecticides.

Sorm, F. (1974) *FEBS Lett.* 40, Suppl. S128-S132.

Isozymes in insects and their significance.

Wagner, R.P. & Selander, R.K. (1974) *Annu. Rev. Entomol.* 19, 117.

Morphogenetic action of insect hormones.

Willis, J.H. (1974) *Annu. Rev. Entomol.* 19, 97.

INSULIN

Proceedings of a symposium on insulin, Duarte, California, 1972.

Best, C.H. & others (1974) *Advan. Metab. Disord.* 7, 141.

Integration of the secretory control mechanisms for insulin, glucagon, and growth hormone.

Blackard, W.G. & Andrews, S.S. (1974) *Curr. Top. Exp. Endocrinol.* 2, 130.

Nerve growth factor and insulin: Evidence of similarities in structure, function, and mechanism of action.

Bradshaw, R.A., Hogue-Angeletti, R.A. & Frazier, W.A. (1974) *Recent Progr. Horm. Res.* 30, 575.

Metabolic effects of insulin in normal and diabetic man. (Short review)

Cahill, jr, G.F., Rossini, A.A. & Aoki, T.T. (1974) *Endocrinol. Exp.* 8, 89.

Insulin receptors and the mechanism of action of insulin. [In English and Spanish, followed by 6 reprinted articles]

Cuatrecasas, P. (1974) *PAABs Rev.* 3, 657-705.

Insulin receptors, cell membranes and hormone action. [Commentary]

Cuatrecasas, P. (1974) *Biochem. Pharmacol.* 23, 2353.

The spatial structure of insulin and its biological activity. [In English and Spanish, followed by 5 reprinted articles]

Dodson, G. (1974) *PAABS Rev.* 3, 105-165.

Insulin secretion and gastrointestinal hormones in chronic pancreatitis.

Grabner, W. (1974) *Acta Hepato-Gastroenterol.* 21, 388.

Insulin in body fluids other than blood.

Henderson, J.R. (1974) *Physiol.Rev.* 54, 1.

The Bakerian Lecture, 1972. Insulin, its chemistry and biochemistry.

Hodgkin, D.C. (1974) *Proc.Roy.Soc.London, Ser.B*, 186, 191-215.

Insulin, growth hormone, and glucagon in prediabetes mellitus - a review.

Johansen, K., Soeldner, J.S. & Gleason, R.E. (1974) *Metabolism*, 23, 1185.

Insulin: regulatory action.

Loten, E.G. & others (1974) *Advan.Enzyme Regul.* 12, 45-81.

The influence of intravenously administered cortisol - with and without the addition of insulin or pre-treatment with propranolol - on various parameters of fat and carbohydrate metabolism in blood plasma of human beings.

Mischke, W.J., Ebers, S., Boisch, K.H. & Tamm, J. (1974) *Acta Endocrinol., Suppl.* 186, 41pp.

Mechanism of action of insulin.

Pilkis, S.J. & Park, C.R. (1974) *Annu.Rev.Pharmacol.* 14, 365.

Gastrin and insulin hypoglycaemia. A review of studies on gastrin determination and hypoglycaemic release of gastrin in man.

Stadil, F. (1974) *Scand.J.Gastroenterol.* 9, Suppl. 23, 45pp.

Historical review of the analytical control of insulin.

Stewart, G.A. (1974) *Analyst*, 99, 913.

INTERFERONS

Interferon and Interferonstimulation.

Fanta, D. & Söltz-Szotz, J. (1974) *Hautarzt*, 25, 313.

IRON

Iron and the liver. [Progress report]

Barry, M. (1974) *Gut*, 15, 324.

Iron deficiency, growth, and stimulated erythropoiesis.

Isager, H. (1974) *Scand.J.Haematol., Suppl.* 21, 175pp.

Iron in biochemistry and medicine.

Jacobs, A. & Worwood, M., eds (1974) 796pp., Academic Press.

Microbial iron metabolism - A comprehensive treatise.

Neilands, J.B., ed. (1974) 597pp., Academic Press.

Iron absorption studies in iron deficiency.

Norrby, A. (1974) *Scand.J.Haematol., Suppl.* 20.

Adrenodoxin, ferredoxins and other iron-sulphur (non-heme-iron) proteins. Part II.

Wickramasinghe, R.H. (1974) *Enzyme*, 17, 227.

Adrenodoxin, ferredoxins and other iron-sulphur (non-heme-iron) proteins. Part I.

Wickramasinghe, R.H. & McIntosh, E.N. (1974) *Enzyme*, 17, 210.

ISOENZYMES

Isozymes: biochemical and genetic studies.

Frelinger, J.A. & Acton, R.T., eds (1973) 291pp., MSS Information Corporation.

Isoenzymes, multiple enzyme forms, and phylogeny.

Masters, C.J. & Holmes, R.S. (1974) *Advan.Comp. Physiol.Biochem.* 5, 110.

Multiple forms of alkaline phosphatase: some topics of current interest.

Moss, D.W. (1974) *Histochem.J.* 6, 353.

Methods in the study of isoenzymes.

Rosalki, S.B. (1974) *Histochem.J.* 6, 361.

Isozymes in development and differentiation.

Scandalios, J.G. (1974) *Annu.Rev.Plant Physiol.* 25, 225.

Isozymes and cancer.

Schapira, F. (1973) *Advan.Cancer Res.* 18, 77.

Isozymes in insects and their significance.

Wagner, R.P. & Selander, R.K. (1974) *Annu.Rev. Entomol.* 19, 117.

KIDNEYS

Symposium on hormones and the kidney.

Bradley, S.E. & others (1974) *Kidney Int.* 6, 261.

KININS

See: PEPTIDES AND POLYPEPTIDES

LEARNING

See: MEMORY

LICHENS

The lichens.

Ahmadjian, V. & Hale, M.E., eds (1973) 697pp., Academic Press.

LIPIDS

- Symposium: Effect of drugs on lipid metabolism.
Aftergood, L. & others (1974) *Lipids*, 9, 91-134.
- The dynamic role of lipids in the nervous system.
Bowen, D.M., Davidson, A.N. & Ramsey, R.B. (1974)
In: MTP International Review of Science, Biochemistry Series Vol.4, Biochemistry of lipids (Goodwin, T.W., ed.) p.141, Butterworths.
- Biosynthesis of glycolipids in virus-transformed cells.
Brady, R.O. & Fishman, P.H. (1974) *Biochim.Biophys. Acta*, 355, 121.
- Evolution of enzyme replacement therapy for lipid storage disease. [Minireview]
Brady, R.O., Gal, A.E. & Pentchev, P.G. (1974) *Life Sci.* 15, 1235-1248.
- Progress in sphingolipids and related topics. A collection of papers dedicated to David Shapiro.
Brady, R.O. & others (1974) *Chem.Phys.Lipids*, 13, 271.
- Biosynthesis of brain gangliosides.
Caputto, R., Maccioni, H.J. & Arce, A. (1974) *Mol. Cell.Biochem.* 4, 97.
- Role of phospholipids in transport and enzymic reactions.
Fourcans, B. & Jain, M.K. (1974) *Advan.Lipid Res.* 12, 148.
- Thermodynamics and experimental methods of equilibrium studies with lipid monolayers.
Gershfeld, N.L. (1974) *Methods Membrane Biol.* 1, 69.
- Recent research on lecithin:cholesterol acyltransferase.
Gjone, E. & Norum, K.R. (1974) *Scand.J.Clin.Lab. Invest.* 33, Suppl.137.
- Lung surfactant.
Goerke, J. (1974) *Biochim.Biophys.Acta*, 344, 241.
- Biochemistry of lipids: MTP international review of biochemistry, Series One - vol.4.
Goodwin, T.W., ed. (1974) 294pp., Butterworths & University Park Press.
- Untersuchungen zum Stoffwechsel menschlicher Chylomikronen. Metabolism of human chylomicrons. [Heinrich-Wieland-Preis-Vorlesungen]
Greten, H. (1974) *Klin.Wochenschr.* 52, 947.
- The halogenated sulphatides.
Haines, T.H. (1974) In: MTP International Review of Science, Biochemistry Series Vol.4, Biochemistry of lipids (Goodwin, T.W., ed.) pp.271-286, Butterworths.
- Glycolipids of tumor cell membrane.
Hakomori, S.-I. (1973) *Advan.Cancer Res.* 18, 265-315.
- Influence of the mesenchymal reaction of the content, synthesis and transport of lipids in the arterial wall.
Hauss, W.H. (1974) *Pathol.Biol.Semaine Hôp.* 22, 651.
- Lipids in glycan biosynthesis.
Hemming, F.W. (1974) In: MTP International Review of Science, Biochemistry Series Vol.4, Biochemistry of lipids (Goodwin, T.W., ed.) p.39, Butterworths.
- Disorders of lipid metabolism.
Holland, G.F. & Pereira, J.N. (1974) *Annu.Rev.Med. Chem.* 7, 172.
- Lipid metabolism in cultured cells.
Howard, B.V. & Howard, W.J. (1974) *Advan.Lipid Res.* 12, 52.
- Hypertension, Vol.XXII. Peptides, lipids, electrolytes, and hypertension.
Hunt, J.C., ed. (1974) *Circ.Res.* 34, No.5, Suppl.1.
- Glycolipids and glycoproteins in brain function.
Irwin, L.N. (1974) *Rev.Neurosci.* 1, 137.
- Phospholipids in biology and medicine.
Jackson, R.L. & Gotto, jr, A.M. (1974) *N.Engl.J.Med.* 290, 24-29; 87-93.
- Characteristics of the lipase from mold, *Geotrichum candidum*: a review.
Jensen, R.G. (1974) *Lipids*, 9, 149-157.
- Symposium: Microbial lipolytic enzymes.
Jensen, R.G. & others (1974) *Lipids*, 9, 149-172.
- Studies in cholestasis of pregnancy, with special reference to lipids and lipoproteins.
Johnson, P. (1973) *Acta Obstet.Gynecol.Scand.*, Suppl.27, 79pp.
- Cyclic adenosine monophosphate and clinical medicine. Part II: Carbohydrate and lipid metabolism. [Invited review]
Keirns, J.J., Freeman, J. & Bitensky, M.W. (1974) *Amer.J.Med.Sci.* 268, 62.
- Isolation and characterization of membrane glycosphingolipids.
Laine, R.A., Stellner, K. & Hakomori, S.-I. (1974) *Methods Membrane Biol.* 2, 205.
- The membrane structure of lipid-containing viruses.
Lenard, J. & Compans, R.W. (1974) *Biochim.Biophys. Acta*, 344, 51.
- The lipoprotein apoproteins. Their role in normal lipid transport and dyslipoproteinemia.
Levy, R.I. & Eisenberg, S. (1974) *Ann.Biol.Clin. Paris*, 32, 1.
- The composition and possible physiologic role of the thyroid lipids.
Lipshaw, L.A. & Foa, P.P. (1974) *Advan.Lipid Res.* 12, 227.
- The influence of intravenously administered cortisol - with and without the addition of insulin or pretreatment with propranolol - on various parameters of fat and carbohydrate metabolism in blood plasma of human beings.
Mischke, W.J., Ebers, S., Boisch, K.H. & Tamm, J. (1974) *Acta Endocrinol.*, Suppl.186, 41pp.
- Relationship between carbohydrate and lipid metabolism and the energy balance of heart muscle.
Neely, J.R. & Morgan, H.E. (1974) *Annu.Rev.Physiol.* 36, 413-459.
- The biochemical basis for mucopolysaccharidoses and mucopolididoses.
Neufeld, E.F. (1974) *Progr.Med.Genet.* 10, 81.
- Lipids and thrombosis. Proceedings from the III Tromso seminar in medicine, University of Tromso, Norway, June 1974.
Nordoy, A., Jorgensen, L. & Prydz, H., eds (1974) *Thromb.Res.* 4, Suppl.1.

Regulation of lipogenesis in animal tissues.

Numa, S. & Yamashita, S. (1974) *Curr.Top.Cell. Regul.* 8, 197.

Dietary fats and thrombosis. INSERM symposium, Lyon 1973.

Renaud, S. & Nordøy, A., eds (1973-1974) *Haemostasis*, 2, Nos. 1-4.

Glycosyl glycerides.

Sastry, P.S. (1974) *Advan.Lipid Res.* 12, 251.

Lecithinabbau und Cholesterinveresterung im Humanserum. Neuere Erkenntnisse über die Stellung der Lecithin-Cholesterin-Acyltransferase im Fettstoffwechsel unter normalen und pathologischen Bedingungen. Lecithin degradation and esterification of cholesterol in human serum. Further results on the role of lecithin-cholesterol-acyltransferase in lipid metabolism under normal and pathological conditions.

Scherer, R. (1974) *Klin.Wochenschr.* 52, 203.

Lipid composition as a guide to the classification of bacteria.

Shaw, N. (1974) *Advan.Appl.Microbiol.* 17, 63.

The relationship between plasma and tissue lipids in human atherosclerosis.

Smith, E.B. (1974) *Advan.Lipid Res.* 12, 1.

Role of lipids in activation of Na^+ , K^+ -dependent ATPase and K^+ -dependent phosphatase of the brain.

Tanaka, R. (1974) *Rev.Neurosci.* 1, 181.

Interfacial photochemistry of bilayer lipid membrane. Tien, H.T. & Chen, V.K. (1974) *Progr.Surf.Membrane Sci.* 8, 119.

Phosphoglyceride metabolism.

van den Bosch, H. (1974) *Annu.Rev.Biochem.* 43, 243-277.

Transfer of phospholipids between membranes.

Wirtz, K.W.A. (1974) *Biochim.Biophys.Acta*, 344, 95.

Protein-lipid interactions in membranes. A.3.

Zahler, P. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges, 1973.* pp.205-244, Pergamon.

LIPOPROTEINS

The pre-beta₁ lipoprotein phenomenon in relation to serum cholesterol and triglyceride levels, the Lp(a) lipoprotein and coronary heart disease.

Dahlen, G. (1974) *Acta Med.Scand., Suppl.570*, 44pp.

A review of methods and metabolic studies associated with the radio-iodination of lipoproteins.

Fidge, N.H. (1974) *Clin.Chim.Acta*, 52, 5.

Plasma lipoproteins and apolipoproteins.

Fredrickson, D.S. (1973) *Curr.Top.Biochem.* 219.

Studies in cholestasis of pregnancy, with special reference to lipids and lipoproteins.

Johnson, P. (1973) *Acta Obstet.Gynecol.Scand., Suppl.27*, 79pp.

The soluble acidic lipoproteins (SALPs) of storage granules. Matrix constituents which may bind stored molecules.

Koenig, H. (1974) *Advan.Cytopharmacol.* 2, 273.

The lipoprotein apoproteins. Their role in normal lipid transport and dyslipoproteinemia.

Levy, R.I. & Eisenberg, S. (1974) *Ann.Biol.Clin. Paris*, 32, 1.

The proteins of plasma lipoproteins: properties and significance.

Scanu, A.M. & Ritter, M.C. (1973) *Advan.Clin.Chem.* 16, 112.

Application of physical methods to the study of serum lipoproteins.

Scanu, A.M., Vitello, L.B. & Deganello, S. (Schumaker, V.N., referee) (1974) *CRC Crit.Rev.Biochem.* 2, 175-196.

LITHIUM

Lithium - its role in psychiatric research and treatment.

Gershon, S. & Shopsin, B., eds (1973) 358pp., Plenum Press.

Cerebral biochemical changes due to the administration of lithium salts.

Poitou, P. (1974) *Pathol.Biol.Semaine Hôp.* 22, 163.

Symposium on lithium prophylaxis: the influence of lithium salts on the course of unipolar and bipolar depressions.

Van Praag, H.M. & others (1973) *Psychiatr.Neurol. Neurochir.* 76, 475-535.

LIVER

The role of surface carbohydrates in the hepatic recognition of circulating glycoproteins.

Ashwell, G. & Morrell, A.G. (1974) *Advan.Enzymol.* 41, 99.

Iron and the liver. [Progress report]

Barry, M. (1974) *Gut*, 15, 324.

International symposium on hepatotoxicity, March 1973, Tel Aviv.

Eliakim, M., ed. (1974) *Isr.J.Med.Sci.* 10, 295.

The regulation of the pentose phosphate cycle in rat liver. [Special symposium lecture]

Krebs, H.A. & Eggleston, L.V. (1974) *Advan.Enzyme Regul.* 12, 421-434.

The resolution and reconstitution of the liver microsomal hydroxylation system.

Lu, A.Y.H. & Levin, W. (1974) *Biochim.Biophys.Acta*, 344, 205.

Oxaloacetate metabolic crossroads in liver. Enzyme compartmentation and regulation of gluconeogenesis.

Marco, R., Pestaña, A., Sebastian, J. & Sols, A. (1974) *Mol.Cell. Biochem.* 3, 53.

Das Reaktionsmuster der Leber-Peroxisomen (= Microbodies) im Verlaufe einer Zellschädigung. The reaction pattern of liver-peroxisomes (= microbodies) during cell injury.

Riede, U.N. & Rohr, H.P. (1974) *Beitr.Pathol.* 151, 111.

The liver and its diseases.

Schaffner, F., Sherlock, S. & Leevy, C.M., eds
(1974) 353pp., Intercontinental Medical Book Corporation.

Physiological and biochemical reviews of sex differences and carcinogenesis with particular reference to the liver.

Toh, Y.C. (1973) *Advan.Cancer Res.* 18, 156-209.

Daily rhythms in tyrosine transaminase and other hepatic enzymes that metabolize amino acids: mechanisms and possible consequences. [Minireview]

Wurtman, R.J. (1974) *Life Sci.* 15, 827-847.

Viral hepatitis, the B antigen and liver cancer.

Zuckerman, A.J. (1974) *Cell*, 1, 65.

LYMPHOCYTES

The possible biological significance of Fc receptors on mammalian lymphocytes and tumor cells.

Kerbel, R.S. & Davies, A.J.S. (1974) *Cell*, 3, 105.

Antilymphocytic serum. Historical review. (1895-1963).

Nava, C. & O'Kane, H. (1974) *Rev.Invest.Clin.* 26, 77.

Receptors for immune complexes on lymphocytes.

Nussenzweig, V. (1974) *Advan.Immunol.* 19, 217.

The lymphocyte in chronic lymphatic leukaemia.

[Occasional survey]

Perera, D.J.B. & Pegrum, G.D. (1974) *Lancet*, I, 1207-1209.

Activation of T lymphocytes against murine plasma cell tumors. A review of *in vitro* and *in vivo* studies.

Röllinghoff, M., Wagner, H., Warner, N.L. & Nossal, G.J.V. (1974) *Isr.J.Med.Sci.* 10, 1001.

Molecular biology of the lymphocyte of the chronic lymphocytic leukemia.

Seeber, S. & Schmidt, C.G. (1974) *Klin.Wochenschr.* 52, 1093.

T and B lymphocytes in humans.

Shevach, E.M. & others (1973) *Transplant.Rev.* 16, 3.

Number and distribution of lymphocytes in man. A critical analysis.

Trepel, F. (1974) *Klin.Wochenschr.* 52, 511.

LYSOSOMES

Lysosomotropic agents. [Commentary]

De Duve, C., de Barsy, T., Poole, B., Trouet, A., Tulkens, P. & Van Hoof, F. (1974) *Biochem.Pharmacol.* 23, 2495.

Regulation of lysosomal enzyme secretion: role of inflammation.

Ignarro, L.J. (1974) *Agent.Action.* 4, 241.

Krankheiten infolge genetischer Defekte im lysosomalen Mucopolysaccharid-Abbau. Diseases caused by genetic defect in lysosomal mucopolysaccharide breakdown.

Passarge, E., Wendel, U., Wöhler, W. & Rüdiger, H.W. (1974) *Dtsch.Med.Wochenschr.* 99, 144.

The lysosome as a mediator of hormone action.

Szego, C.M. (1974) *Recent Progr.Horm.Res.* 30, 171.

MACROMOLECULES

Image analysis of macromolecular structures.

[Invited review]

Amos, L.A. (1974) *J.Microsc.(Oxford)*, 100, 143.

Biopolymers: origin, chemistry, and biology.

Calvin, M. (1974) *Angew.Chem.Int.Ed.Engl.* 13, 121-131.

Transport of macromolecules in nerve cells.

Droz, B. & Di Giamberardino, L. (1974) *Advan.Cytopharmacol.* 2, 249.

Piezoelectric properties of biological macromolecules

Fukada, E. (1974) *Advan.Biophys.* 6, 121.

Chemistry of macromolecules.

Gutfreund, H., ed. (1974) 411pp., University Park Press/Butterworths.

Macromolecules regulating growth and development.

Hay, E.D., King, T.J. & Papaconstantinou, J., eds (1974) 244pp., Academic Press.

Spectroscopic rulers for biological macromolecules.

[In English and Spanish, followed by 4 reprinted articles]

Stryer, L. (1974) *PAABS Rev.* 3, 1-49.

MEMBRANES

See also: CELLS AND CELL WALLS

Interactions of membranes, microfilaments, and microtubules in endocytosis and exocytosis.

Allison, A.C. & Davies, P. (1974) *Advan.Cytopharmacol.* 2, 237.

Vascular basement membrane changes in diabetic retinopathy. Montgomery lecture, 1973.

Ashton, N. (1974) *Brit.J.Ophthalmol.* 58, 344-366.

The role of surface carbohydrates in the hepatic recognition of circulating glycoproteins.

Ashwell, G. & Morrell, A.G. (1974) *Advan.Enzymol.* 41, 99.

Preparation and use of liposomes as models of biological membranes.

Bangham, A.D., Hill, M.W. & Miller, N.G.A. (1974) *Methods Membrane Biol.* 1, 1.

Large-scale isolation of nuclear membranes from bovine liver.

Berezney, R. (1974) *Methods Cell.Biol.* 8, 205.

Interactions between membranes and cytolytic bacterial toxins.

Bernheimer, A.W. (1974) *Biochim.Biophys.Acta*, 344, 27.

Solubilization and characterization of membrane proteins. A.1.3. Platelet membranes.

Bernier, I. (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges, 1973.* pp.85-113, Pergamon.

The interrelationship between sodium and calcium fluxes across cell membranes.

Blaustein, M.P. (1974) *Rev.Physiol.Biochem.Pharmacol.* 70, 33-82.

Membrane lipids and proteins in ageing lens and cataract.

Broekhuysse, R.M. (1973) *The human lens - in relation to cataract: Ciba Foundn Symp.* pp.135-149.

A dynamic model of cell membranes.

Capaldi, R.A. (1974) *Sci.Amer.* 230, no.3, 26-33.

Symposium: Movement of ions across biological membranes.

Coster, H.G.L. & others (1974) *Proc.Aust.Physiol.* 5, 2.

Membrane receptors.

Cuatrecasas, P. (1974) *Annu.Rev.Biochem.* 43, 169-214.

Insulin receptors, cell membranes and hormone action. [Commentary]

Cuatrecasas, P. (1974) *Biochem.Pharmacol.* 23, 2353.

Solubilization and characterization of membrane proteins. A.1.4. Other membranes.

Dische, Z. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges, 1973.* pp.115-156, Pergamon.

Role of membranes in controlling ion and water movements in the lens.

Duncan, G. (1973) *The human lens - in relation to cataract: Ciba Foundn Symp.* pp.99-116.

Rotational and translational diffusion in membranes.

Edidin, M. (1974) *Annu.Rev.Biophys.Bioeng.* 3, 179.

Kinetic studies of transport across red blood cell membranes.

Ellam, Y. & Stein, W.D. (1974) *Methods Membrane Biol.* 2, 283.

Perspectives in membrane biology. 1st Mexican Society of Biochemistry symposium. Proceedings of an international symposium, Oaxaca, Mexico, January 1974.

Estrada-O., S. & Gitler, C., eds (1974) 659pp., Academic Press.

Biomembranes Part A. Methods in enzymology, vol.XXXI.

Fleischer, S. & Packer, L., eds (1974) 889pp., Academic Press.

Structure, biochemistry, and functions of nuclear envelope.

Franke, W.W. (1974) *Int.Rev.Cytol., Suppl.* 4, 71.

Regulation of membrane transport in eukaryotes.

Guidotti, G.G., Gazzola, G.C. & Franchi-Gazzola, R. (1974) *Advan.Cytopharmacol.* 2, 155.

Glycolipids of tumor cell membrane.

Hakomori, S.-I. (1973) *Advan.Cancer Res.* 18, 265-315.

Structure of mitochondrial cristae membranes.

Harmon, H.J., Hall, J.D. & Crane, F.L. (1974) *Biochim.Biophys.Acta*, 344, 119.

Transport of sugars in tumor cell membranes.

Hatanaka, M. (1974) *Biochim.Biophys.Acta*, 355, 77.

Conceptual developments in membrane transport, 1924 - 1974.

Higinbotham, N. (1974) *Plant Physiol.* 54, 454.

The role of the membrane in the utilization of nucleic acid precursors.

Hochstadt, J. (Magasanik, B., referee) (1974) *CRC Crit.Rev.Biochem.* 2, 259-310.

Immunogenetic ontogeny of cellular membrane function. A review.

Hubbert, W.T. & Miller, W.J. (1974) *J.Cell.Physiol.* 84, 429.

Transmitter release and recycling of synaptic vesicle membrane at the neuromuscular junction.

Hurlbut, W.P. & Ceccarelli, B. (1974) *Advan.Cytopharmacol.* 2, 141.

Gaseous transfer coefficients in membranes.

Hwang, S.T., Choi, C.K. & Kammermeyer, K. (1974) *Separ.Sci.* 9, 461.

The proteins of the erythrocyte membrane.

Juliano, R.L. (1973) *Biochim.Biophys.Acta*, 300, 341.

Transport studies in bacterial membrane vesicles.

Kaback, H.R. (1974) *Science*, 186, 882-892.

Dissociation and reassembly of the inner mitochondrial membrane.

Kagawa, Y. (1974) *Methods Membrane Biol.* 1, 201.

A summary and evaluation of spin labels used as probes for biological membrane structure.

Keith, A.D., Sharnoff, M. & Cohn, G.E. (1973) *Biochim.Biophys.Acta*, 300, 379.

Redundant cell-membrane regulation in the exocrine pancreas cells after pilocarpine stimulation of the secretion.

Kramer, M.F. & Geuze, J.J. (1974) *Advan.Cytopharmacol.* 2, 87.

Chemical composition and enzymatic properties of plasmatic membranes. (Survey) [In Ukrainian: English abstract]

Kursky, M.D. & Rybalchenko, V.K. (1974) *Ukr.Biochim.Zh.* 46, 661.

Immunological functions of membranes. A.5.

Ladoulis, C.T. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges, 1973.* pp.283-337, Pergamon.

Isolation and characterization of membrane glycosphingolipids.

Laine, R.A., Stellner, K. & Hakomori, S.-I. (1974) *Methods Membrane Biol.* 2, 205.

Nuclear magnetic relaxation and the biological membrane.

Lee, A.G., Birdsall, N.J.M. & Metcalfe, J.C. (1974) *Methods Membrane Biol.* 2, 2.

The membrane structure of lipid-containing viruses.

Lenard, J. & Compans, R.W. (1974) *Biochim.Biophys.Acta*, 344, 51.

Cell membranes of thyroid and its altered responsiveness to the hormone TSH.

Macchia, V. & Meldolesi, M. (1974) *Advan.Cytopharmacol.* 2, 33.

The role of membrane lipid fatty acids and cholesterol in the structure and function of mycoplasma membranes. [In English and Spanish, followed by 5 reprinted articles]

McElhaney, R.N. (1974) *PAABS Rev.* 3, 753-833.

- Solubilization and characterization of membrane proteins. A1. Erythrocyte membranes.
Maddy, A.H. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges, 1973.* pp.21-62, Pergamon.
- Biomembranes, vol.5.
Manson, L.A., ed. (1974) 284pp., Plenum Press.
- The electron microscopy and composition of biological membranes and envelopes. A discussion.
Markham, R., Horne, R.W. & Hicks, R.M., organizers (1974) *Phil.Trans.Roy.Soc.London B*, 268, No.891.
- Secretory mechanisms in pancreatic acinar cells. Role of the cytoplasmic membranes.
Meldolesi, J. (1974) *Advan.Cytopharmacol.* 2, 71.
- Membrane flow and differentiation: origin of Golgi apparatus membranes from endoplasmic reticulum.
Morre, D.J., Keenan, T.W. & Huang, C.M. (1974) *Advan.Cytopharmacol.* 2, 107.
- Chemicals as tools in the study of excitable membranes.
Narahashi, T. (1974) *Physiol.Rev.* 54, 813.
- Cytochrome *c* binding to enzymes and membranes.
Nicholls, P. (1974) *Biochim.Biophys.Acta*, 346, 261.
- The effect of some factors on the permeability of mucous membranes for the foreign substances. (Survey of literature) [In Russian: English abstract]
Osipov, V.I. & Vorobiev, A.A. (1974) *Zh.Mikrobiol. Epidemiol.Immunobiol.* No.10, 12.
- Membrane active complexones. Chemistry and biological function. Second FEBS-Ferdinand Springer Lecture.
Ovchinnikov, Yu.A. (1974) *FEBS Lett.* 44, 1-21.
- Biomembranes - architecture, biogenesis, bioenergetics and differentiation. Proceedings of the international symposium on biomembranes, Madurai University, India, December 1973.
Packer, L., ed. (1974) 423pp., Academic Press.
- Membrane fusion.
Poste, G. & Allison, A.C. (1973) *Biochim.Biophys. Acta*, 300, 421.
- Studies of the nicotinic receptor-response mechanism in *Torpedo* postsynaptic membranes.
Potter, L.T. (1974) *Advan.Cytopharmacol.* 2, 1.
- The mechanism of active transport in bacterial membrane vesicles. [In English and Spanish, followed by 5 reprinted articles]
Reeves, J.P. & Kaback, H.R. (1974) *PAABS Rev.* 3, 209-268.
- Virus-induced modification of cellular membranes related to viral structure.
Rifkin, D.B. & Quigley, J.P. (1974) *Annu.Rev.Microbiol.* 28, 325.
- Parois, membranes et division cellulaire. Colloque international, Marseille, mai 1974.
Rogers, J. & others (1974) *Ann.Microbiol. - Inst. Pasteur*, 125B, 133.
- Membrane associated enzymes in bacteria.
Salton, M.R.J. (1974) *Advan.Microbial Physiol.* 11, 213.
- Mode of action of antibiotics on microbial walls and membranes.
Salton, M.R.J. & Tomasz, A., eds (1974) *Ann.N.Y. Acad.Sci.* 235, 5.
- The synthesis and degradation of membrane proteins.
Schimke, R.T. (1974) *Advan.Cytopharmacol.* 2, 63.
- The inner mitochondrial membrane: composition and function.
Schneider, D.L. (1974) *Progr.Surf.Membrane Sci.* 8, 209.
- Membrane-bound enzymes and hormones. A.4.
Semenza, G. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges, 1973.* pp.245-282, Pergamon.
- Molecular biology of cellular membranes with applications to immunology.
Singer, S.J. (1974) *Advan.Immunol.* 19, 1.
- The molecular organization of membranes.
Singer, S.J. (1974) *Annu.Rev.Biochem.* 43, 805-833.
- The organization of proteins in the human red blood cell membrane. A review.
Steck, T.L. (1974) *J.Cell Biol.* 62, 1.
- Preparation of impermeable inside-out and right-side-out vesicles from erythrocyte membranes.
Steck, T.L. (1974) *Methods Membrane Biol.* 2, 245.
- Interfacial photochemistry of bilayer lipid membrane.
Tien, H.T. & Chen, V.K. (1974) *Progr.Surf.Membrane Sci.* 8, 119.
- Ionic channels through the axon membrane (A review).
Ubricht, W. (1974) *Biophys.Struct.Mech.* 1, 1.
- Circular dichroism and absorption studies on biomembranes.
Urry, D.W. & Long, M.M. (1974) *Methods Membrane Biol.* 1, 105.
- Transport pathways in biological membranes.
Ussing, H.H., Erlj, D. & Lassen, U. (1974) *Annu. Rev.Physiol.* 36, 17-49.
- Organisation of proteins in membranes with special reference to the cytochrome oxidase system.
Vanderkooi, G. (1974) *Biochim.Biophys.Acta*, 344, 307.
- Conformation and structure of membranes. A.2.
Vanderkooi, G. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges, 1973.* pp.157-203, Pergamon.
- Membranes of adrenal medulla: their role in exocytosis.
Winkler, H., Schneider, F.H., Rufener, C., Nakane, P.K. & Hortnagl, H. (1974) *Advan.Cytopharmacol.* 2, 127.
- Transfer of phospholipids between membranes.
Wirtz, K.W.A. (1974) *Biochim.Biophys.Acta*, 344, 95.
- Structure of photoreceptor membranes.
Worthington, C.R. (1974) *Annu.Rev.Biophys.Bioeng.* 3, 53.
- Protein-lipid interactions in membranes. A.3.
Zahler, P. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges, 1973.* pp.205-244, Pergamon.
- Solubilization and characterization of membrane proteins. A.1.2. Lymphocyte membranes.
Zola, H. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges, 1973.* pp.63-84, Pergamon.

MEMORY

The biochemical basis of learning and memory. [Minireview]

Matthies, H. (1974) *Life Sci.* 15, 2017-2032.

The role of the association in recognition memory. [Monograph]

Underwood, B.J. (1974) *J. Exp. Psychol.* 102, 917.

Molecular coding of memory. [Minireview]

Ungar, G. (1974) *Life Sci.* 14, 595-604.

Peptides and memory. [Commentary]

Ungar, G. (1974) *Biochem. Pharmacol.* 23, 1553-1558.

METABOLISM AND METABOLIC CONTROL

See also: GENETIC AND METABOLIC DISEASES

Analysis of genetic regulatory mechanisms.

Beckwith, J. & Rossow, P. (1974) *Annu. Rev. Genet.* 8, 1.

Conceptual developments in metabolic control, 1924-1974.

Beevers, H. (1974) *Plant Physiol.* 54, 437.

Metabolic flux through phosphofructokinase and fructose 1,6-diphosphatase. [Minireview]

Bloxham, D.P. (1974) *Int. J. Biochem.* 5, 429.

Regulations and integrations.

Brobeck, J.R. (1974) *Can. J. Physiol. Pharmacol.* 52, 771.

Symposium: Biochemical aspects of pulmonary function.

Clements, J.A., chairman (1974) *Fed. Proc.* 33, 2231.

Receptors and control of respiration in birds. Papers presented at a Workshop held at Department of Physiology, Max-Planck-Institut für experimentelle Medizin, Göttingen, May 1974.

Duncker, H.-R. & others (1974) *Resp. Physiol.* 22, Nos. 1-2.

Handling of bioactive materials by the lung.

Fishman, A.P. & Pietra, G.G. (1974) *N. Engl. J. Med.* 291, 884-890; 953-959.

Energy balance and obesity in man.

Garrow, J.S. (1974) 335pp., North-Holland.

A perspective on the role of chemically reactive metabolites of foreign compounds in toxicity - II. Alterations in the kinetics of covalent binding.

[Commentary]
Gillette, J.R. (1974) *Biochem. Pharmacol.* 23, 2927.

Untersuchungen zum Stoffwechsel menschlicher Chylomikronen. Metabolism of human chylomicrons. [Heinrich-Wieland-Preis-Vorlesungen]

Greten, H. (1974) *Klin. Wochenschr.* 52, 947.

The choice of animal species for studies on metabolic regulation.

Hanson, R.W. (1974) *Nutr. Rev.* 32, 148.

Metabolite exchange between chloroplasts and cytoplasm.

Heber, U. (1974) *Annu. Rev. Plant Physiol.* 25, 393.

Physiological adjustments responsible for metabolic cold adaptation and possible deleterious consequences.

Héroux, O. (1974) *Rev. Can. Biol.* 33, 209.

Metabolic regulation: new aspects.

Holzer, H. & others (1974) *Advan. Enzyme Regul.* 12, 1-41.

Role of physical and neuroendocrine factors in proximal electrolyte reabsorption.

Knox, F.G. & Davis, B.B. (1974) *Metabolism*, 23, 793.

Studies on metabolic events in localized compartments of the living cell by rapid microspectrofluorometry.

Kohen, E., Thorell, B., Kohen, C. & Salmon, J.M. (1974) *Advan. Biol. Med. Phys.* 15, 271.

The regulation of the pentose phosphate cycle in rat liver. [Special symposium lecture]

Krebs, H.A. & Eggleston, L.V. (1974) *Advan. Enzyme Regul.* 12, 421-434.

Acetyl coenzyme A carboxylase.

Lane, M.D., Moss, J. & Polakis, S.E. (1974) *Curr. Top. Cell. Regul.* 8, 139.

Metabolism in relation to function in ganglia and peripheral nerves in vertebrates. [Symposium]

Larrabee, M.G., chairman (1974) *Fed. Proc.* 33, 1039.

Biochemistry of hypoglycin.

Manchester, K.L. (1974) *FEBS Lett.* 40, Suppl. S133-S139.

Oxaloacetate metabolic crossroads in liver. Enzyme compartmentation and regulation of gluconeogenesis.

Marco, R., Pestaña, A., Sebastian, J. & Sols, A. (1974) *Mol. Cell. Biochem.* 3, 53.

The cytidine mechanism and methylation pathway in the formation of N-methylated ethanolamine phosphoglycerides in *Neurospora crassa*.

Matysiak, Z., Radomska-Pyrek, A. & Chojnacki, T. (1974) *Mol. Cell. Biochem.* 3, 143.

Hormones, metabolism and stress. Proceedings of a symposium held at Smolenice Castle, Czechoslovakia, Sept. 1972.

Németh, Š., ed. (1973) 322pp., Slovak Academy of Sciences.

Metabolic regulation of multifunctional glucose-6-phosphatase.

Nordlie, R.C. (1974) *Curr. Top. Cell. Regul.* 8, 33.

Regulation of lipogenesis in animal tissues.

Numa, S. & Yamashita, S. (1974) *Curr. Top. Cell. Regul.* 8, 197.

Circadian rhythms and metabolic patterns.

Queiroz, O. (1974) *Annu. Rev. Plant Physiol.* 25, 115.

Pasteur effect and phosphofructokinase.

Ramaiah, A. (1974) *Curr. Top. Cell. Regul.* 8, 298.

Mathematical analysis of metabolic networks.

Reich, J.G. & Sel'kov, E.E. (1974) *FEBS Lett.* 40, Suppl. S119-S127.

Recent advances in molecular pathology. Isotopic analysis of metabolic systems.

Reiner, J.M. (1974) *Exp. Mol. Pathol.* 20, 78.

Effect of diet on activity of enzymes involved in fatty acid and cholesterol synthesis.

Romsos, D.R. & Leveille, G.A. (1974) *Advan. Lipid Res.* 12, 97.

Metabolic aspects of desert adaptation (man).

Samueloff, S. (1974) *Advan. Metab. Disord.* 7, 95.

Lecithinabbau und Cholesterinveresterung im Human-serum. Neuere Erkenntnisse über die Stellung der Lecithin-Cholesterin-Acyltransferase im Fettstoffwechsel unter normalen und pathologischen Bedingungen. Lecithin degradation and esterification of cholesterol in human serum. Further results on the role of lecithin-cholesterol-acyltransferase in lipid metabolism under normal and pathological conditions.

Scherer, R. (1974) *Klin.Wochenschr.* 52, 203.

Metabolically oxygenated compounds: formation, conjugation, and possible biological implications.

Schreiber, E.C. (1974) *J.Pharm.Sci.* 63, 1177.

Cyclic AMP and regulation.

Smith, C.G. & others (1974) *Advan.Enzyme Regul.* 12, 187-216.

Controls of citrate synthase activity. [Minireview]

Srere, P.A. (1974) *Life Sci.* 15, 1695-1710.

Metabolic compartmentation: symbiotic, organellar, multienzymic, and microenvironmental.

Srere, P.A. & Mosbach, K. (1974) *Annu.Rev.Microbiol.* 28, 61.

The metabolism of aromatic compounds.

Stafford, H.A. (1974) *Annu.Rev.Plant Physiol.* 25, 459.

Metabolism of hexuronides and hexuronates in *Escherichia coli* K12: physiological and genetic aspects of its regulation.

Stoeber, F., Lagarde, A., Nemoz, G., Novel, M., Portalier, R., Pouyssegur, J. & Robert-Baudouy, J. (1974) *Biochimie*, 56, 199.

Lung metabolism and biochemistry.

Tierney, D.F. (1974) *Annu.Rev.Physiol.* 36, 209.

METALS

See: TRACE ELEMENTS

METHANOL

The biochemical toxicology of methanol.

Tephly, T.R., Watkins, W.D. & Goodman, J.I. (1974) *Essays Toxicol.* 5, 149.

MICRO-ORGANISMS

See also: ALGAE PROTOZOA
BACTERIA RICKETTSIAE
FUNGI

Formation of hydrocarbons by micro-organisms.

Bird, C.W. & Lynch, J.M. (1974) *Chem.Soc.Rev.* 3, 309.

Microbial transformation of pesticides.

Bollag, J. (1974) *Advan.Appl.Microbiol.* 18, 75.

Taxonomic criteria for mycobacteria and nocardiae.

Bradley, S.G. & Bond, J.S. (1974) *Advan.Appl.Microbiol.* 18, 132.

Physiological aspects of microbial inorganic nitrogen metabolism.

Brown, C.M., Macdonald-Brown, D.S. & Meers, J.L. (1974) *Advan.Microbial Physiol.* 11, 1.

Some biochemical properties of brucella and their significance for differentiation of individual species and taxonomy of brucella genus. (Survey) [In Russian: English abstract]

Dranovskaya, E.A. (1974) *Zh.Mikrobiol.Epidemiol. Immunobiol.* No.7, 17.

M proteins of group A streptococci.

Fox, E.N. (1974) *Bacteriol.Rev.* 38, 57-86.

Mechanisms of spore heat resistance.

Gould, G.W. & Dring, G.J. (1974) *Advan.Microbial Physiol.* 11, 137.

Progress in general microbiology. [In Russian: English abstract]

Imšenecki, A.A. (1974) *Mikrobiologiya*, 43, 185.

Partition of proteins and micro-organisms in aqueous biphasic systems.

Johansson, G. (1974) *Mol.Cell.Biochem.* 4, 169.

Mechanism of bacterial transformation and transfection.

Notani, N.K. & Setlow, J.K. (1974) *Progr.Nucleic Acid Res.* 14, 39.

Antimetabolites from microorganisms.

Preuss, D.L. & Scannell, J.P. (1974) *Advan.Appl. Microbiol.* 17, 19.

Continuous cultivation of microorganisms.

Ričica, J. (1974) *Folia Microbiol.Prague*, 19, 397.

Inclusion bodies of prokaryotes.

Shively, J.M. (1974) *Annu.Rev.Microbiol.* 28, 167.

Space microbiology.

Taylor, G.R. (1974) *Annu.Rev.Microbiol.* 28, 121.

Respiration and nitrogen fixation in *Azotobacter*.

Yates, M.G. & Jones, C.W. (1974) *Advan.Microbial Physiol.* 11, 97.

Microbiology and biochemistry of soy sauce fermentation.

Yong, F.M. & Wood, B.J.B. (1974) *Advan.Appl.Microbiol.* 17, 157.

MITOCHONDRIA

Active transport and binding in mitochondria.

Azzone, G.F. & Massari, S. (1973) *Biochim.Biophys. Acta*, 301, 195.

Studies on nuclear and mitochondrial DNA of *Saccharomyces cerevisiae*.

Cryer, D.R., Goldthwaite, C.D., Zinker, S., Lam, K.-B., Storm, E., Hirschberg, R., Blamire, J., Finkelstein, D.B. & Marmur, J. (1973) *Cold Spring Harb. Symp.Quant.Biol.* 38, 17.

Mitochondrial antibodies (AMA). [Progress report]

Doniach, D. & Walker, G.J. (1974) *Gut*, 15, 664.

Evidence for the symbiotic origin of mitochondria.

[Minireview]

Fridovich, I. (1974) *Life Sci.* 14, 819-826.

Genetic analysis of the chloroplast and mitochondrial genomes.

Gillham, N.W. (1974) *Annu.Rev.Genet.* 8, 347.

Oscillatory systems in mitochondria.

Gooch, V.D. & Packer, L. (1974) *Biochim.Biophys. Acta*, 346, 245.

Structure of mitochondrial cristae membranes.

Harmon, H.J., Hall, J.D. & Crane, L.F. (1974) *Biochim.Biophys. Acta*, 344, 119.

Dissociation and reassembly of the inner mitochondrial membrane.

Kagawa, Y. (1974) *Methods Membrane Biol.* 1, 201.

The replication and structure of mitochondrial DNA in animal cells.

Kasamatsu, H., Grossman, L.I., Robberson, D.L., Watson, R. & Vinograd, J. (1973) *Cold Spring Harb. Symp.Quant.Biol.* 38, 281.

The biogenesis of mitochondria, transcriptional, translational and genetic aspects.

Kroon, A.M. & Saccone, C., eds (1974) 551pp., Academic Press.

Organization and transcription of DNA in chromosomes and mitochondria of drosophila.

Laird, C.D., Chooi, W.Y., Cohen, E.H., Dickson, E., Hutchinson, N. & Turner, S.H. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 311.

The metabolic significance of anion transport in mitochondria.

Meijer, A.J. & van Dam, K. (1974) *Biochim.Biophys. Acta*, 346, 213.

The structure of mitochondria.

Munn, E.A. (1974) 465pp., Academic Press.

Detection of enzyme-substrate type of interaction during the operation of mitochondrial calcium pump.

Rossi, C.S., Alexandre, A. & Rossi, C.R. (1974) *Advan.Cytopharmacol.* 2, 171.

The biosynthesis of mitochondrial proteins.

Schatz, G. & Mason, T.L. (1974) *Annu.Rev.Biochem.* 43, 51-87.

The inner mitochondrial membrane: composition and function.

Schneider, D.L. (1974) *Progr.Surf.Membrane Sci.* 8, 209.

The structure of mitochondrial ATPase.

Senior, A.E. (1973) *Biochim.Biophys. Acta*, 301, 249.

Thermodynamic relationships in mitochondrial oxidative phosphorylation.

Wilson, D.F., Erecińska, M. & Dutton, P.L. (1974) *Annu.Rev.Biophys.Bioeng.* 3, 203.

Replication of mitochondrial DNA: replicative forms of molecules from rat tissues and evidence for discontinuous replication.

Wolstenholme, D.R., Koike, K. & Cochran-Fouts, P. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 267.

Inborn errors of morphogenesis. A review of localized hereditary malformations.

Holmes, L.B. (1974) *N.Engl.J.Med.* 291, 763-773.

Fine-structural aspects of morphogenesis in *Acetabularia*.

Werz, G. (1974) *Int.Rev.Cytol.* 38, 319.

MUCOPOLYSACCHARIDES

See: POLYSACCHARIDES

MUSCLE AND MUSCLE PROTEINS

Cyclic nucleotides and smooth muscle.

Bär, H.-P. (1974) *Advan.Cyclic Nucl.Res.* 4, 195.

A unified theory of the control of actin and myosin in nonmuscle movements.

Durham, A.C.H. (1974) *Cell*, 2, 123.

Electrical activity of gastrointestinal smooth muscle. [Progress report]

Duthie, H.L. (1974) *Gut*, 15, 669.

Regulatory mechanism of muscle contraction with special reference to the Ca-troponin-tropomyosin system.

Ebashi, S. (1974) *Essays Biochem.* 10, 1-36.

Effects of papaverine on smooth muscle and their mechanisms. [Invited review]

Ferrari, M. (1974) *Pharmacol.Res.Comm.* 6, 97.

Possibilities and limitations of ultrastructural investigations in muscle diseases.

Ketelsen, U.-P. (1974) *Beitr.Pathol.* 151, 1.

Selective innervation of muscle.

Mark, R.F. (1974) *Brit.Med.Bull.* 30, 122-126.

The cooperative action of muscle proteins.

Murray, J.M. & Weber, A. (1974) *Sci.Amer.* 230, no.2, 58-71.

The striated muscle cell of skeletal muscle. Present data.

Siebert, S., Favre, J. & Louis, J. (1974) *Pathol. Biol.Semaine Hôp.* 22, 337.

Symposium - Protein synthesis and muscle growth.

Thompson, W.C. & others (1974) *J.Anim.Sci.* 38, 1050.

The substructure of myosin and the reaction mechanism of its adenosine triphosphatase.

Tonomura, Y. & Inoue, A. (1974) *Mol.Cell.Biochem.* 5, 127.

MUTAGENS AND MUTAGENESIS

See also: DNA

Symposium: Mutagenesis.

Auerbach, C., chairman (1974) *Genetics*, 78, 77-134.

Section of environmental mutagenesis (Special issue).

Epstein, S.S. & others (1974) *Mutat.Res.* 26, 217-351.

Antimutagens. Data and problems.

Gebhart, E. (1974) *Humangenetik*, 24, 1.

MORPHOGENESIS

A molecular model for morphogenesis: the primary septum of yeast.

Cabib, E., Ulane, R. & Bowers, B. (1974) *Curr.Top. Cell.Regul.* 8, 2.

Activation and inactivation of chemical carcinogens and mutagens in the mammal.

Magee, P.N. (1974) *Essays Biochem.* 10, 105-136.

International conference on the dose and effect of mutagens, Bad Krozingen, W.Germany, October 1973.

Mohn, G. & others (1974) *Mutat.Res.* 25, 143-234.

Naturally occurring mutagens of biological origin – A review.

Tazima, Y. (1974) *Mutat.Res.* 26, 225-234.

MYCOPLASMAS

Mycoplasmas – of man, animals, plants and insects.

Proceedings of an INSERM international congress, Bordeaux, Sept. 1974.

Bové, J.M. & Duplan, J.F., eds (1974) 449pp., INSERM.

A comparative analysis of the ultrastructure, biology and pathogenicity of mycoplasmas.

Dvořák, R. (1974) *Pathol.Eur.* 9, 85.

A simplified method for the detection of mycoplasma.

Levine, E.M. (1974) *Methods Cell Biol.* 8, 229.

Mycoplasmas and rickettsiae in relation to plant diseases.

Maramorosch, K. (1974) *Annu.Rev.Microbiol.* 28, 301.

NEURONS

Trophic functions of the neuron.

Drachman, D.B., ed. (1974) *Ann.N.Y.Acad.Sci.* 228, 3.

NEUROTRANSMITTERS AND RECEPTORS

See also: CATECHOLAMINES

Neurotransmitters.

Axelrod, J. (1974) *Sci.Amer.* 230, no.6, 58-71.

Synaptic molecules: identification and metabolism.

Barondes, S.H. (1974) *Annu.Rev.Biochem.* 43, 147-168.

Neurochemical correlates of synaptically active amino acids. [Minireview]

Bennett, jr, J.P., Mulder, A.H. & Snyder, S.H. (1974) *Life Sci.* 15, 1045-1056.

Synaptic transmission and neuronal interaction.

Bennett, M.V.L., ed. (1974) 388pp., Raven Press.

Remarks on the organization of axon terminals in relation to secretory processes at synapses.

Couteaux, R. (1974) *Advan.Cytopharmacol.* 2, 369.

Amino acid transmitters in the mammalian central nervous system.

Curtis, D.R. & Johnston, G.A.R. (1974) *Ergeb. Physiol.Biol.Chem.Exp.Pharmacol.* 69, 97.

Central adrenoreceptors and the control of arterial blood pressure.

Day, M.D. & Roach, A.G. (1974) *Clin.Exp.Pharmacol. Physiol.* 1, 347.

Use of β -adrenoreceptor blocking drugs in hypertension.

Doyle, A.E. (1974) *Drugs*, 8, 422-431.

Properties of the receptor for cardiac glycosides.

Erdmann, E. & Schoner, W. (1974) *Klin.Wochenschr.* 52, 705.

The role of catecholamines and acetylcholine in the regulation of endocrine function. [Minireview]

Ganong, W.F. (1974) *Life Sci.* 15, 1401-1414.

Pharmacodynamic properties of β -adrenergic receptor blocking drugs in man.

Gibson, D.G. (1974) *Drugs*, 7, 8-38.

Symposium of nervous transmission.

Härkönen, M. & Rechart, L. (1974) *Med.Biol.* 52, 137.

Regulation of serotonin synthesis. [Minireview]

Hamon, M. & Glowinski, J. (1974) *Life Sci.* 15, 1533-1548.

Metabolism of brain acetylcholine and its modification by drugs.

Hrdina, P.D. (1974) *Drug.Metab.Rev.* 3, 89.

Neurotransmitter-sensitive adenylate cyclase systems in the brain.

von Hungen, K. & Roberts, S. (1974) *Rev.Neurosci.* 1, 231.

Transmitter release and recycling of synaptic vesicle membrane at the neuromuscular junction.

Hurlbut, W.P. & Ceccarelli, B. (1974) *Advan.Cytopharmacol.* 2, 141.

Uptake mechanisms for neurotransmitter amines.

[Commentary]

Iversen, L.L. (1974) *Biochem.Pharmacol.* 23, 1927-1935.

The acetylcholine receptor: progress report. [Minireview]

Karlin, A. (1974) *Life Sci.* 14, 1385-1415.

Efferent innervation of vestibular and auditory receptors.

Klinke, R. & Galley, N. (1974) *Physiol.Rev.* 54, 316.

Chemical nature of synaptic transmission in vertebrates.

Kmjevič, K. (1974) *Physiol.Rev.* 54, 418.

Synaptic actions on retinal photoreceptors. [Symposium]

Lasansky, A., chairman (1974) *Fed.Proc.* 33, 1069.

Molecular pharmacology of beta-adrenergic receptors – A status report. [Commentary]

Lefkowitz, R.J. (1974) *Biochem.Pharmacol.* 23, 2069.

Autonomic neuroreceptor mechanisms in brain vessels.

Owman, C., Edvinsson, L. & Nielsen, K.C. (1974) *Blood Vessels*, 11, 2.

Studies of the nicotine receptor-response mechanism in *Torpedo* postsynaptic membranes.

Potter, L.T. (1974) *Advan.Cytopharmacol.* 2, 1.

Acetylcholine receptors.

Rang, H.P. (1974) *Quart.Rev.Biophys.* 7, 283.

Adrenergic receptors: isolation and molecular properties.

Robertis, E.de, Fiszer de Plazas, S. & Ochoa, E. (1974) *Advan.Cytopharmacol.* 2, 5.

Neurochemistry of cholinergic receptors. Based on a symposium at the American Society for Neurochemistry, March 1973.

Robertis, E.de & Schacht, J., eds (1974) 146pp., Raven Press.

γ -aminobutyric acid and nervous system function — A perspective. [Commentary]

Roberts, E. (1974) *Biochem.Pharmacol.* 23, 2637.

Pharmacokinetic properties of β -adrenergic receptor blocking drugs.

Shand, D.G. (1974) *Drugs*, 7, 39-47.

β -adrenergic receptor blocking drugs in cardiac arrhythmias.

Singh, B.N. & Jewitt, D.E. (1974) *Drugs*, 7, 426-461.

On the turnover of acetylcholine in the brain. An experimental study using intravenously injected radioactive choline.

Sparf, B. (1973) *Acta Physiol.Scand.*, Suppl.397, 47pp.

Trophic influence of nerves on the development and maintenance of sensory receptors.

Werner, J.K. (1974) *Amer.J.Phys.Med.* 53, 127.

Use of β -adrenergic receptor blocking drugs in psychiatry.

Whitlock, F.A. & Price, J. (1974) *Drugs*, 8, 109-124.

Molecular organization of the cholinergic vesicle.

Whittaker, V.P. (1974) *Advan.Cytopharmacol.* 2, 311.

Effects of the diet on brain neurotransmitters.

Wurtman, R.J. & Fernstrom, J.D. (1974) *Nutr.Rev.* 32, 193.

NITROGEN

Physiological aspects of microbial inorganic nitrogen metabolism.

Brown, C.M., Macdonald-Brown, D.S. & Meers, J.L. (1974) *Advan.Microbial Physiol.* 11, 1.

Biological nitrogen fixation, 1924-1974.

Burris, R.H. (1974) *Plant Physiol.* 54, 443.

Use of amino acid precursors in nitrogen-accumulation diseases.

Close, J.H. (1974) *N.Engl.J.Med.* 290, 663-667.

Dinitrogen fixation.

Dilworth, M.J. (1974) *Annu.Rev.Plant Physiol.* 25, 81.

Nitrogen form and plant disease.

Huber, D.M. & Watson, R.D. (1974) *Annu.Rev.Phytopathol.* 12, 139.

New advances and future potential in biological nitrogen fixation.

Postgate, J.R. (1974) *J.Appl.Bacteriol.* 37, 185.

Nitrogen fixation.

Safrany, D. (1974) *Sci.Amer.* 231, no.4, 64-80.

Respiration and nitrogen fixation in *Azotobacter*.

Yates, M.G. & Jones, C.W. (1974) *Advan.Microbial Physiol.* 11, 97.

NITROSAMINES

See: AMINES

NUCLEIC ACIDS AND POLYNUCLEOTIDES

See also: DNA

RNA

Interactions of polynucleotides and other polyelectrolytes with enzymes and other proteins.

Elbein, A.D. (1974) *Advan.Enzymol.* 40, 29.

The role of the membrane in the utilization of nucleic acid precursors.

Hochstadt, J. (Magasanik, B., referee) (1974) *CRC Crit.Rev.Biochem.* 2, 259-310.

Photochemistry and photobiology of nucleic acids and nucleic acid components. [In German: English abstract]

Lober, G. & Kittler, L. (1973) *Stud.Biophys.* 41, 81.

Camptothecin.

Shamma, M. & St.Georgiev, V. (1974) *J.Pharm.Sci.* 63, 163.

Nucleic acids.

Walker, R.T. (1973) *Annu.Rep.Progr.Chem.Sect.B*, 70, 624.

NUCLEOSIDES

Bibliography of crystal structures of carbohydrates, nucleosides, and nucleotides, 1970-1972.

Jeffrey, G.A. & Sundaralingam, M. (1974) *Advan.Carbohydr.Chem.* 30, 445.

Transport of nucleosides, nucleic acid bases, choline and glucose by animal cells in culture.

Plagemann, P.G.W. & Richey, D.P. (1974) *Biochim.Biophys.Acta*, 344, 263.

NUCLEOTIDES

Cyclic nucleotides and drug discovery.

Amer, M.S. & McKinney, G.R. (1974) *Annu.Rep.Med.Chem.* 7, 203.

Cyclic nucleotides and smooth muscle.

Bär, H.-P. (1974) *Advan.Cyclic Nucl.Res.* 4, 195.

Do cyclic nucleotides promote the trans-synaptic induction of tyrosine hydroxylase? [Minireview]

Costa, E., Guidotti, A. & Hanbauer, I. (1974) *Life Sci.* 14, 1169-1188.

Purine ribonucleotide catabolism: Clinical and biochemical significance. Review.

Fox, I.H. (1974) *Nutr.Metab.* 16, 65.

Delayed increase of tyrosine hydroxylase activity induced by transsynaptic stimulation in chromaffin cells: role of cyclic nucleotides as second messengers.

Guidotti, A., Mao, C.C. & Costa, E. (1974) *Advan.Cytopharmacol.* 2, 39.

Methods in Enzymology, vol. XXXVIII: Hormone action, part C, cyclic nucleotides.

Hardman, J.G. & O'Malley, B.W., eds (1974) 454pp., Academic Press.

Bibliography of crystal structures of carbohydrates, nucleosides, and nucleotides, 1970-1972.

Jeffrey, G.A. & Sundaralingam, M. (1974) *Advan. Carbohydr. Chem.* 30, 445.

Cyclic nucleotides and modulation of effector systems of inflammation. [Commentary]

Kaliner, M. & Austen, K.F. (1974) *Biochem. Pharmacol.* 23, 763-771.

Cyclic nucleotides and their role in gastrointestinal secretion.

Kimberg, D.V. (1974) *Gastroenterology*, 67, 1023.

Cyclic nucleotides in higher plants?

Lin, P.P.-C. (1974) *Advan. Cyclic Nucl. Res.* 4, 439.

Deoxyribonucleotide synthesis and DNA in brain.

Millard, S.A. (1974) *Rev. Neurosci.* 1, 115.

Sequences containing methylated nucleotides at the 5' termini of messenger RNAs: possible implications for processing.

Rottman, F., Shatkin, A.J. & Perry, R.P. (1974) *Cell*, 3, 197.

Role of cyclic nucleotides in cancer.

Ryan, W.L. & Heidrick, M.L. (1974) *Advan. Cyclic Nucl. Res.* 4, 81.

Recent progress in cyclic nucleotide research.

Strada, S.J. & Robison, G.A. (1974) *Curr. Top. Exp. Endocrinol.* 2, 2.

Cyclic nucleotide metabolism in normal and proliferating epidermis.

Voorhees, J.J., Duell, E.A., Stawiski, M. & Harrell, E.R. (1974) *Advan. Cyclic Nucl. Res.* 4, 117.

NUTRITION

Diet and the geographical distribution of multiple sclerosis. [Occasional survey]

Agranoff, B.W. & Goldberg, D. (1974) *Lancet*, II, 1061-1066.

Chemically defined diets.

Bury, K.D., Stephens, R.V., Cha, C.-J. & Randall, H.T. (1974) *Can. J. Surg.* 17, 124.

Role of nutrition in the drug-metabolizing enzyme system.

Campbell, T.C. & Hayes, J.R. (1974) *Pharmacol. Rev.* 26, 171.

Chemical carcinogens in the environment and in the human diet: can a threshold be established?

Claus, G., Krisko, I. & Bolander, K. (1974) *Food Cosmet. Toxicol.* 12, 737.

Nutrition and the brain.

Fernstrom, J.D. & Wurtman, R.J. (1974) *Sci. Amer.* 230, no. 2, 84-91.

Gastrointestinal digestion and absorption: 38th annual poultry nutrition conference.

Fuller, H.L. & others (1974) *Fed. Proc.* 33, 87.

Review: The endocrine glands in infantile malnutrition.

Godard, C. (1974) *Helv. Paediatr. Acta*, 29, 5.

Some recent advances in human nutrition research. The W.O. Atwater Memorial symposium.

Gortner, jr, R.A., chairman (1974) *Fed. Proc.* 33, 2263.

Symposium über qualitative Bewertung der Ernährung junger Säuglinge. [In German: English abstract]

Heyns, K. & others (1974) *Monatsschr. Kinderheilk.* 122, Suppl. to No. 5, 223.

Organic acid preservation of high moisture corn and other grains and the nutritional value: A review.

Jones, G.M., Mowat, D.N., Elliot, J.I. & Moran, jr, E.T. (1974) *Can. J. Anim. Sci.* 54, 499.

Symposium on nonspecific nitrogen in the nutrition of human beings.

Kies, C. & others (1974) *J. Agric. Food Chem.* 22, 174.

Protein-calorie malnutrition in children and its relation to psychological development and behavior.

Latham, M.C. (1974) *Physiol. Rev.* 54, 541.

Parenteral nutrition in acute metabolic illness.

Lee, H.A., ed. (1974) 453pp., Academic Press.

Symposium on nutrition. [Special number]

McLaren, D.S. & others (1974) *Practitioner*, 212, 415. (No. 1270)

Feeding and digestion in the bivalvia.

Owen, G. (1974) *Advan. Comp. Physiol. Biochem.* 5, 1.

Effects of drugs on nutrition. [Minireview]

Roe, D.A. (1974) *Life Sci.* 15, 1219-1234.

Meeting on physiology and biochemistry of digestion, Marseille, 10-11 May 1973.

Rousseau, J.-P. & others (1973) *Ann. Biol. Anim. Biochim. Biophys.* 13, 707.

Sugars in nutrition. Based on papers presented at an International Conference held at Vanderbilt University School of Medicine, November 1972.

Sipple, H.L. & McNutt, K.W., eds (1974) 768pp., Academic Press.

Variations in the biological activity showing the quality of the milk depending on the condition of the animal and the seasonal type of feeding. [In Russian] Soumtsov, B.M. (1972) Ministry of Agriculture USSR, Moscow.

Early malnutrition, growth and mental development in man.

Tizard, J. (1974) *Brit. Med. Bull.* 30, 169-174.

Lysine supplementation of wheat proteins: a review.

Vaghefi, S.B., Makdani, D.D. & Mickelsen, O. (1974) *Amer. J. Clin. Nutr.* 27, 1231.

Tracer techniques in nutrition.

Veall, N., chairman (1974) *Proc. Nutr. Soc. Engl. Scot.* 33, 1-38.

Nutrition and immunology. [Symposium]

Vitale, J.J. & Good, R.A., guest eds (1974) *Amer. J. Clin. Nutr.* 27, 623.

Effects of the diet on brain neurotransmitters.

Wurtman, R.J. & Fernstrom, J.D. (1974) *Nutr. Rev.* 32, 193.

Laboratory animals in nutritional research.

Yang, M.G. & Mickelsen, O. (1974) *Methods Anim. Exp.* 5, 1.

OBESITY

The influence of obesity on health.

Mann, G.V. (1974) *N.Engl.J.Med.* 291, 178-185; 226-232.

OOGENESIS

See: GROWTH AND DEVELOPMENT

ORGANELLES

See also: LYSOSOMES PEROXISOMES
MITOCHONDRIA RIBOSOMES

The cell in medical science. Vol.I. The cell and its organelles.

Beck, F. & Lloyd, J.B., eds (1974) 366pp., Academic Press.

The cell nucleus, vol.1.

Busch, H., ed. (1974) 667pp., Academic Press Inc.

The cell nucleus, vol.2.

Busch, H., ed. (1974) 564pp., Academic Press Inc.

Acidic proteins of the nucleus. (Cell Biology, a series of monographs).

Cameron, I.L. & Jeter, jr, J.R., eds (1974) 343pp., Academic Press.

Structure, biochemistry, and function of nuclear envelope.

Franke, W.W. (1974) *Int.Rev.Cytol., Suppl.* 4, 71.

Microtubules and microfilaments.

Hepler, P.K. & Palevitz, B.A. (1974) *Annu.Rev.Plant Physiol.* 25, 309.

The nucleolus and the rolling circle.

Hourcade, D., Dressler, D. & Wolfson, J. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 537.

Molecular organization of the chromaffin vesicles of the adrenal medulla.

Kirshner, N. (1974) *Advan.Cytopharmacol.* 2, 265.

Studies on metabolic events in localized compartments of the living cell by rapid microspectrofluorometry.

Kohen, E., Thorell, B., Kohen, C. & Salmon, J.M. (1974) *Advan.Biol.Med.Phys.* 15, 271.

Golgi function and cell wall formation in the conjugates.

Lacalli, T. (1974) *Rev.Can.Biol.* 33, 125.

Cytochemical studies of secretory and other granules associated with the endoplasmic reticulum in rat thyroid epithelial cells.

Novikoff, A.B., Novikoff, P.M., Ma, M., Woo-Yung Shin & Quintana, N. (1974) *Advan.Cytopharmacol.* 2, 349.

Molecular organization of amine storage organelles of blood platelets and adrenal medulla.

Pietscher, A., Da Prada, M., Berneis, K.H., Steffen, H., Lütold, B. & Weder, H.G. (1974) *Advan.Cytopharmacol.* 2, 257.

Das Reaktionsmuster der Leber-Peroxisomen (= Microbodies) im Verlaufe einer Zellschädigung. The reaction pattern of liver-peroxysomes (= microbodies) during cell injury.

Riede, U.N. & Rohr, H.P. (1974) *Beitr.Pathol.* 151, 111.

How cilia move.

Satir, P. (1974) *Sci.Amer.* 231, no.4, 44-52.

Bacterial plasmids.

Sherratt, D.J. (1974) *Cell*, 3, 189.

Metabolic compartmentation: symbiotic, organellar, multienzymic, and microenvironmental.

Srere, P.A. & Mosbach, K. (1974) *Annu.Rev.Microbiol.* 28, 61.

The virulence plasmids of *Enterobacteriaceae*.

Tschäpe, H. & Rische, H. (1974) *Z.Allg.Mikrobiol.* 14, 337-350.

OXIDATIVE PHOSPHORYLATION

See: BIOENERGETICS

OXYGEN

Molecular mechanisms of oxygen activation.

Hayaishi, O., ed. (1974) 680pp., Academic Press.

Polarographic determination of free oxygen in tissues with obliterating affections of the limb vessels. (Review of the literature) [In Russian: English abstract]

Reut, A.A. & Vostrikov, Ya.A. (1974) *Sov.Med. No.1*, 55.

Some quantitative aspects of oxygen consumption and anaerobic metabolism of molluscan tissues - a review.

Zs.-Nagy, I. (1974) *Comp.Biochem.Physiol.* 49 (2A), 399.

PANCREAS

Molecular basis of enzyme secretion by the exocrine pancreas.

Christophe, J., Robberecht, P., Deschodt-Lanckman, M., Lambert, M., Van Leemput-Coutrez, M. & Camus, J. (1974) *Advan.Cytopharmacol.* 2, 47.

The molecular organization of the β granule of the islets of Langerhans.

Howell, S.L. (1974) *Advan.Cytopharmacol.* 2, 319.

Redundant cell-membrane regulation in the exocrine pancreas cells after pilocarpine stimulation of the secretion.

Kramer, M.F. & Geuze, J.J. (1974) *Advan.Cytopharmacol.* 2, 87.

Secretory mechanisms in pancreatic acinar cells.

Role of the cytoplasmic membranes.

Meldolesi, J. (1974) *Advan.Cytopharmacol.* 2, 71.

A portrait of the pancreatic β -cell. The Minkowski Award Lecture 1973.

Orci, L. (1974) *Diabetologia*, 10, 163.

Neural control of the endocrine pancreas.

Woods, S.C. & Porte, jr, D. (1974) *Physiol.Rev.* 54, 596.

PARASITES

Antiparasitic agents.

Campbell, W.C. & Mrozik, H. (1974) *Annu.Rep.Med.Chem.* 7, 115.

PEPTIDES AND POLYPEPTIDES

Biochemical properties of oncornavirus polypeptides.

Bolognesi, D.P., Huper, G., Green, R.W. & Graf, T. (1974) *Biochim.Biophys.Acta*, 355, 220.

Posterior pituitary peptides.

Chard, T. & Martin, M.J. (1974) *Brit.Med.Bull.* 30, 74-79.

Glutathione.

Flohé, L., Benöhr, H.Ch., Sies, H., Waller, H.D. & Wendel, A., eds (1974) 316pp., Academic Press.

Peptide synthesis.

Fridkin, M. & Patchornik, A. (1974) *Annu.Rev.Biochem.* 43, 419-443.

Sequential polypeptide synthesis.

Goren, H.J. (Jones, J.H., referee) (1974) *CRC Crit.Rev.Biochem.* 2, 197-225.

Hypothalamic control of anterior pituitary hormone secretion-characterized hypothalamic-hypophysiotropic peptides.

Grant, G.F. & Vale, W. (1974) *Curr.Top.Exp.Endocrinol.* 2, 38.

Hypertension, Vol.XXII. Peptides, lipids, electrolytes, and hypertension.

Hunt, J.C., ed. (1974) *Circ.Res.* 34, No.5, Suppl.1.

Isotope exchange and conformational fluctuation in polypeptides.

Ikegami, A., Kanehisa, M.I., Nakanishi, M. & Tsu-boi, M. (1974) *Advan.Biophys.* 6, 1.

Synthesis, structure, and biological properties of sequential polypeptides.

Johnson, B.J. (1974) *J.Pharm.Sci.* 63, 313.

Hydration of proteins and polypeptides.

Kuntz, jr, I.D. & Kauzmann, W. (1974) *Advan.Protein Chem.* 28, 239-345.

Biosynthesis of small peptides.

Kurahashi, K. (1974) *Annu.Rev.Biochem.* 43, 445-459.

Polypeptides of influenza viruses.

Laver, W.G. (1973) *Advan.Virus Res.* 18, 57-103.

The gamma-glutamyl cycle. [Basic review]

Meister, A. (1974) *Ann.Intern.Med.* 81, 247-253.

Glutathione: Metabolism and function via the γ -glutamyl cycle. [Minireview]

Meister, A. (1974) *Life Sci.* 15, 177-190.

Present trends of kinin research. [Minireview]

Rocha e Silva, M. (1974) *Life Sci.* 15, 7-22.

Peptide hormones.

Tager, H.S. & Steiner, D.F. (1974) *Annu.Rev.Biochem.* 43, 509-538.

The mechanism of peptide chain termination.

Tate, W.P. & Caskey, C.Th. (1974) *Mol.Cell.Biochem.* 5, 115.

Peptides and memory. [Commentary]

Ungar, G. (1974) *Biochem.Pharmacol.* 23, 1553-1558.

Symposium on toxic proteins, peptides, and related substances.

Wilson, B.J. & others (1974) *J.Agric.Food Chem.* 22, 1-53.

Heterogeneity of peptide hormones.

Yalow, R.S. (1974) *Recent Progr.Hormone Res.* 30, 597.

PEROXISOMES

Biogenesis and turnover of rat-liver peroxisomes.

de Duve, C., Lazarow, P.B. & Poole, B. (1974) *Advan.Cytopharmacol.* 2, 219.

Biochemistry of the peroxisomes in the liver cell.

Sies, H. (1974) *Angew.Chem.* 13, 706-718.

PHEROMONES

See: HORMONES AND REGULATORY SUBSTANCES

PHOSPHATES

The mechanism of interaction of red cell organic phosphates with hemoglobin.

Benesch, R.E. & Benesch, R. (1974) *Advan.Protein Chem.* 28, 211-237.

Calcium and phosphate metabolism.

Borle, A.B. (1974) *Annu.Rev.Physiol.* 36, 361-390.

PHOSPHOGLYCERIDES

See: LIPIDS

PHOTOSYNTHESIS

Excitation energy transfer in photosynthesis.

Borisov, A.Yu. & Godik, V.I. (1973) *Biochim.Biophys.Acta*, 301, 227.

Plant photobiology in the last half-century.

Galston, A.W. (1974) *Plant Physiol.* 54, 427.

The absorption of light in photosynthesis.

Govindjee, G. & Govindjee, R. (1974) *Sci.Amer.* 231, no.6, 68-82.

Conceptual developments in photosynthesis, 1924-1974

Myers, J. (1974) *Plant Physiol.* 54, 420.

Bacterial photosynthesis.

Parson, W.W. (1974) *Annu.Rev.Microbiol.* 28, 41.

Bibliography of reviews and methods of photosynthesis - 27.

Šesták, Z. & Čatský, J. (1974) *Photosynthetica*, 8, 57-65.

Bibliography of reviews and methods of photosynthesis - 28.

Šesták, Z. & Čatský, J. (1974) *Photosynthetica*, 8, 134-147.

Bibliography of reviews and methods of photosynthesis - 29.

Šesták, Z. & Čatský, J. (1974) *Photosynthetica*, 8, 304-318.

Bibliography of reviews and methods of photosynthesis - 30.

Šesták, Z. & Čatský, J. (1974) *Photosynthetica*, 8, 406.

Energy conservation in photosynthetic electron transfer of chloroplasts.

Trebst, A. (1974) *Annu.Rev.Plant Physiol.* 25, 423.

PIGMENTS

The Yale conference on pigment cell biology, 1973.

Carter, D.M. & others (1973) *Yale J.Biol.Med.* 46, 331.

Proceedings of the National Eye Institute Conference on Rhodopsin, its chemistry and function, Part II.

Futterman, S., Kinoshita, J.H. & Shichi, H., eds (1974) *Exp.Eye Res.* 18, No.1.

Human skin pigmentation, its genetics and variation.

Kalla, A.K. (1974) *Humangenetik*, 21, 289.

Photochemistry of pyrroles, bile pigments and porphyrins. [Yearly review]

Lightner, D.A. (1974) *Photochem.Photobiol.* 19, 457.

The challenge of the retinal pigment epithelium. Lang lecture.

Newell, F.W. (1974) *Proc.Roy.Soc.Med.* 67, 1233-1236.

 α -hydroxychalcones as intermediates in flavonoid biogenesis: the significance of recent chemical analogies.

Roux, D.G. & Ferreira, D. (1974) *Phytochemistry*, 13, 2039.

PLANTS AND PLANT PRODUCTS

Conceptual developments in metabolic control, 1924 - 1974.

Beevers, H. (1974) *Plant Physiol.* 54, 437.

Uronic gums and mucilages. [Phytochemistry review]

[In French: English abstract]

Bézanger-Beauquesne, L. & Pinkas, Miss (1974) *Ann. Pharm.Fr.* 32, 455.

Somatic cell genetics of higher plants.

Chaleff, R.S. & Carlson, P.S. (1974) *Annu.Rev.Genet.* 8, 267.

The yellowing virus diseases of beet.

Duffus, J.E. (1973) *Advan.Virus Res.* 18, 347-386.

Rapid responses to plant hormones.

Evans, M.L. (1974) *Annu.Rev.Plant Physiol.* 25, 195.

Controlling elements in maize.

Fincham, J.R.S. & Sastry, G.R.K. (1974) *Annu.Rev.Genet.* 8, 15.

Plant rhabdoviruses.

Francki, R.I.B. (1973) *Advan.Virus Res.* 18, 257-345.

Plant photobiology in the last half-century.

Galston, A.W. (1974) *Plant Physiol.* 54, 427.

Replication of plant viruses.

Hamilton, R.I. (1974) *Annu.Rev.Phytopathol.* 12, 223.

Prospects in genetic engineering of plants.

Heyn, R.F., Rorsch, A. & Schilperoort, R.A. (1974) *Quart.Rev.Biophys.* 7, 35.

Conceptual developments in membrane transport, 1924 - 1974.

Higinbotham, N. (1974) *Plant Physiol.* 54, 454.

Nitrogen form and plant disease.

Huber, D.M. & Watson, R.D. (1974) *Annu.Rev.Phytopathol.* 12, 139.

Protein turnover in plants and possible means of its regulation.

Huffaker, R.C. & Peterson, L.W. (1974) *Annu.Rev.Plant Physiol.* 25, 363.

Plant viruses with a multipartite genome.

Jaspars, E.M.J. (1974) *Advan.Virus Res.* 19, 37.

Cyclic nucleotides in higher plants?

Lin, P.P.-C. (1974) *Advan.Cyclic Nucl.Res.* 4, 439.

Biochemistry of hypoglycin.

Manchester, K.L. (1974) *FEBS Lett.* 40, Suppl. S133-S139.

Mycoplasmas and rickettsiae in relation to plant diseases.

Maramorosch, K. (1974) *Annu.Rev.Microbiol.* 28, 301.

Control of seed germination.

Mayer, A.M. & Shain, Y. (1974) *Annu.Rev.Plant Physiol.* 25, 167.

The chemistry and physiology of abscisic acid.

Milborrow, B.V. (1974) *Annu.Rev.Plant Physiol.* 25, 259.

Plant propagation through tissue cultures.

Murashige, T. (1974) *Annu.Rev.Plant Physiol.* 25, 135.

The biochemical basis for mucopolysaccharidoses and mucopolipidoses.

Neufeld, E.F. (1974) *Progr.Med.Genet.* 10, 81.

Uptake mechanisms: inorganic and organic.

Nissen, P. (1974) *Annu.Rev.Plant Physiol.* 25, 53.

Symposium: Phytosterols.

Patterson, G.W. & others (1974) *Lipids*, 9, 567-639.

 α -hydroxychalcones as intermediates in flavonoid biogenesis: the significance of recent chemical analogies.

Roux, D.G. & Ferreira, D. (1974) *Phytochemistry*, 13, 2039.

Metabolism of auxin in higher plants.

Schneider, E.A. & Wightman, F. (1974) *Annu.Rev.Plant Physiol.* 25, 487.

Basic mechanisms in plant morphogenesis: Report of Symposium held June 4-6, 1973.

Smith, H.H. & others (1973) *Brookhaven Symp.Biol.* no.25.

Phytotoxins produced by plant parasites.

Strobel, G.A. (1974) *Annu.Rev.Plant Physiol.* 25, 541.

Fifty years of plant hormone research.

Thimann, K.V. (1974) *Plant Physiol.* 54, 450.

POLLUTION

The susceptibility of the fetus and child to chemical pollutants. Proceedings of a conference at Browns Lake, Wisconsin.

Miller, R.W. & others (1974) *Pediatrics*, 53, No.5, Suppl. Part 2.

POLYAMINES

See: AMINES

POLYSACCHARIDES

Some aspects of the structure, biosynthesis, and genetic control of yeast mannans.

Ballou, C.E. (1974) *Advan.Enzymol.* 40, 239.

Chemically reactive derivatives of polysaccharides.

Kennedy, J.F. (1974) *Advan.Carbohydr.Chem.* 29, 306.

Unusual polysaccharides.

Kirkwood, S. (1974) *Annu.Rev.Biochem.* 43, 401-417.

Glycosaminoglycans. A biochemical and clinical review.

Lamberg, S.I. & Stoolmiller, A.C. (1974) *J.Invest. Dermatol.* 63, 433.

The structure and metabolism of starch.

Manners, D.J. (1974) *Essays Biochem.* 10, 37-71.

Application of enzymic methods to the structural analysis of polysaccharides: Part I.

Marshall, J.J. (1974) *Advan.Carbohydr.Chem.* 30, 257.

Krankheiten infolge genetischer Defekte im lysosomalen Mucopolysaccharid-Abbau. Diseases caused by genetic defect in lysosomal mucopolysaccharide breakdown.

Passarge, E., Wendel, U., Wöhler, W. & Rüdiger, H.W. (1974) *Dtsch.Med.Wochenschr.* 99, 144.

Glycogen storage and depletion in human skeletal muscle fibres.

Piehl, K. (1974) *Acta Physiol.Scand., Suppl.* 402, 32pp.

Dextrans.

Sidebotham, R.L. (1974) *Advan.Carbohydr.Chem.* 30, 371.

Recent advances in glycogen metabolism.

Soderling, T.R. & Park, C.R. (1974) *Advan.Cyclic Nucl.Res.* 4, 283.

Biochemische Diagnose der Mucopolysaccharid-Speicherkrankheiten in der Zellkultur. (Biochemical diagnosis of mucopolysaccharidoses in cell culture) [In German: English abstract]

Wendel, U., Rüdiger, H.W. & Passarge, E. (1974) *Monatsschr.Kinderheilk.* 122, 23.

PORPHYRINS

Regulation of porphyrin and heme biosynthesis. Part II. Proceedings of the international research conference on regulation of porphyrin and heme biosynthesis, Marburg a.d.Lahn, June 28-July 1, 1973.

Joubert, S.M., moderator (1974) *Enzyme*, 17, Nos.1-2.

Photochemistry of pyrroles, bile pigments and porphyrins. [Yearly review]

Lightner, D.A. (1974) *Photochem.Photobiol.* 19, 457.

Regulation of porphyrin and heme biosynthesis. Part I. Proceedings of the international research conference on regulation of porphyrin and heme biosynthesis, Marburg a.d.Lahn, June-July 1973.

Neuberger, A. & others (1973) *Enzyme*, 16, Nos.1-6.

Porphyria: theories of etiology and treatment.

Peters, H.A., Cripps, D.J. & Reese, H.H. (1974) *Int.Rev.Neurobiol.* 16, 302.

On porphyrin esterification and ester hydrolysis. Studies on esterification of natural animal porphyrins with various alcohols and the acid hydrolysis of their esters.

With, T.K. (1973) *Scand.J.Clin.Lab.Invest.* 32, Suppl.134.

POTASSIUM

Properties and functions of (Na⁺ + K⁺)-activated adenosinetriphosphatase.

Askari, A., ed. (1974) *Ann.N.Y.Acad.Sci.* 242, 6.

The sodium-potassium adenosine-triphosphatase.

Dahl, J.L. & Hokin, L.E. (1974) *Annu.Rev.Biochem.* 43, 327-356.

Cation transport in bacteria: K⁺, Na⁺, and H⁺.

Harold, F.M. & Altendorf, K. (1974) *Curr.Top.Membranes Transp.* 5, 1.

The (Na⁺ + K⁺)activated enzyme and its relationship to transport of sodium and potassium.

Skou, J.C. (1974) *Quart.Rev.Biophys.* 7, 401.

PROSTAGLANDINS

Biological roles of the prostaglandins.

Bedwani, J.R. (1974) *Pharm.J.* 212, 71-72, 75.

The role of prostaglandins and catecholamines in inflammation and in the mode of action of antiphlogistics.

Bekemeler, H., Giessler, A.J. & Hirschelmann, R. (1974) *Pharmazie*, 29, 671.

Drugs which inhibit prostaglandin biosynthesis.

Flower, R.J. (1974) *Pharmacol.Rev.* 26, 33.

The prostaglandins.

Horton, E.W. (1974) In: MTP International Review of Science, Biochemistry Series Vol.4, Biochemistry of lipids (Goodwin, T.W., ed.) p.237, Butterworths.

Prostaglandins: pharmacology and clinical applications.

Karim, S.M.M. & Hillier, K. (1974) *Drugs*, 8, 176-207.

- Prostaglandins — basic and clinical considerations.
Katz, R.L. & Katz, G.J. (1974) *Anesthesiology*, 40, 471.
- Prostaglandins and the renal antihypertensive and natriuretic endocrine function.
Lee, J.B. (1974) *Recent Progr.Horm.Res.* 30, 481.
- Prostaglandins (Literature survey). [In Russian: English abstract]
Mashkovsky, M.D. (1974) *Farmakol.Toksikol.* 37, 109.
- Prostaglandins and digestive organs. (Biochemistry, biological properties, clinical significance). (Survey) [In Russian: English abstract]
Menshikov, V.V., Orlov, V.A. & Belyakov, N.V. (1974) *Sov.Med. No.11*, 68.
- Prostaglandins and related compounds.
Mueller, R.A. & Flanders, L.E. (1974) *Annu.Rep.Med.Chem.* 7, 162.
- Prostaglandins in reproduction.
Pharriss, B.B. & Shaw, J.E. (1974) *Annu.Rev.Physiol.* 36, 391.
- Prostaglandin synthetase inhibitors. Their effects on physiological functions and pathological states.
Robinson, H.J. & Vane, J.R., eds (1974) 395pp., Raven Press.
- Prostaglandins in blood: measurement, sources, and effects.
Silver, M.J., Smith, J.B., Ingeman, C.C. & Kocsis, J.J. (1973) *Progr.Hematol.* 8, 235-257.
- Symposium on prostaglandins, Lodz, Poland, August 1973.
Vane, J.R. & others (1974) *Pol.J.Pharmacol.Pharm.* 26, Nos.1-2.
- Prostaglandin bibliography.
Weeks, J.R. (1974) *Prostaglandins*, 6, 171.
- Prostaglandin bibliography.
Weeks, J.R. (1974) *Prostaglandins*, 6, 355.
- Prostaglandin bibliography.
Weeks, J.R. (1974) *Prostaglandins*, 7, 355.
- Prostaglandins. [Symposium]
Weeks, J.R. & others (1974) *Fed.Proc.* 33, 37.
- Symposium on prostaglandins.
Wilson, D.E., ed. (1974) *Arch.Intern.Med.* 133, 29.
- PROTEINS**
- See also: ANTIBODIES
ANTIGENS
BLOOD AND
BLOOD PROTEINS
COLLAGEN
GLYCOPROTEINS
- HAEMOGLOBIN
IMMUNOGLOBULINS
LIPOPROTEINS
MUSCLE AND
MUSCLE PROTEINS
- α -fetoprotein as a marker of embryo-specific differentiations in normal and tumor tissues.
Abelev, G.I. (1974) *Transplant.Rev.* 20, 3.
- Molecular evolution at the protein level.
Acher, R. (1974) *Biochimie*, 56, 1.
- Recent discoveries in the evolution of proteins.
Acher, R. (1974) *Angew.Chem.Int.Ed.Engl.* 13, 186.
- Phosphorylation of DNA-binding nuclear acidic proteins and gene activation in the HeLa cell cycle.
Alfrey, V.G., Inoue, A., Kam, J., Johnson, E.M. & Vidali, G. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 785.
- Cryoglobulinemia. [In French: English abstract]
Andrejak, M., Fournier, A., Dubreuil, A. & Quichaud, J. (1974) *Sem.Hép.Paris*, 50, 2811-2817.
- Minireview: Circular dichroism and protein structure.
Bannister, W.H. & Bannister, J.V. (1974) *Int.J.Biochem.* 5, 673.
- Non-histone chromosomal proteins in normal and abnormal growth. [Minireview]
Baserga, R. (1974) *Life Sci.* 15, 1057-1072.
- Growing insight into the structure of β -crystallin. A review.
Bloemendal, H. & Herbrink, P. (1974) *Ophthalmic Res.* 6, 81.
- Dynein and the biochemistry of ciliary motility. [In English and Spanish, followed by 4 reprinted articles]
Blum, J.J. (1974) *PAABS Rev.* 3, 477-532.
- Protein binding of rifampicin: a review.
Boman, G. (1973) *Scand.J.Resp.Dis., Suppl.* 84, 40.
- Pro and contra carrier proteins; sugar transport via the periplasmic galactose-binding protein.
Boos, W. (1974) *Curr.Top.Membranes Transp.* 5, 51.
- The neurophysins.
Breslow, E. (1974) *Advan.Enzymol.* 40, 271.
- Acidic proteins of the nucleus. (Cell Biology, a series of monographs)
Cameron, I.L. & Jeter, jr, J.R., eds (1974) 343pp., Academic Press.
- Low molecular weight proteins of the lens.
Croft, L.R. (1973) *The human lens — in relation to cataract: Ciba Foundn Symp.* pp.207-226.
- Taste receptor proteins. [Minireview]
Dastoli, F.R. (1974) *Life Sci.* 14, 1417-1426.
- Regulation of cell proliferation and regeneration in mammalian liver by corticosteroids and α -fetoglobulin.
Desser-Wiest, L. (1974) *Wien.Klin.Wochenschr.* 86, 390.
- A prologue to the study of the non-histone chromosomal proteins.
Elgin, S.C.R., Boyd, J.B., Hood, L.E., Wray, W. & Wu, F.C. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 821.
- M proteins of group A streptococci.
Fox, E.N. (1974) *Bacteriol.Rev.* 38, 57-86.
- Effects of metal binding on protein structure.
Friedberg, F. (1974) *Quart.Rev.Biophys.* 7, 1.
- Protein-metal interactions. Proceedings of the American Chemical Society Symposium, Chicago, August 1973.
Friedman, M., ed. (1974) 692pp., Plenum Press.
- α_1 -Fetoprotein — diagnostische Bedeutung. (α_1 -fetoprotein — diagnostic significance).
Gassner, M. & Grub, P.J. (1974) *Schweiz.Med.Wochenschr.* 104, 557.
- Retinol-binding proteins.
Glover, J. (1973) *Vitam.Horm.* 31, 1-42.

- Intracellular protein degradation in mammalian and bacterial cells.
Goldberg, A.L. & Dice, J.F. (1974) *Annu.Rev.Biochem.* 43, 835-869.
- Proteinuria. B.1.
Hardwicke, J. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges, 1973.* pp.341-565, Pergamon.
- Problems in the X-ray analysis of proteins. Nobel guest lecture. II.
Hodgkin, D.C. (1974) *Chem.Scr.* 6, 145.
- Protein turnover in plants and possible means of its regulation.
Huffaker, R.C. & Peterson, L.W. (1974) *Annu.Rev. Plant Physiol.* 25, 363.
- Role of surface alterations in cell transformation: the importance of proteases and surface proteins.
Hynes, R.O. (1974) *Cell*, 1, 147.
- On the heterogeneity of serum albumin. A critical review.
Janatová, J. (1974) *J.Med.* 5, 149-216.
- Plasma protein variations in inflammation.
Jayle, M.-F. & Engler, R. (1974) *Pathol.Biol. Semaine Hôp.* 22, 645.
- Partition of proteins and micro-organisms in aqueous biphasic systems.
Johansson, G. (1974) *Mol.Cell.Biochem.* 4, 169.
- Chromosomal proteins.
Johnson, J.D., Douvas, A.S. & Bonner, J. (1974) *Int.Rev.Cytol., Suppl.* 4, 273.
- The proteins of the erythrocyte membrane.
Juliano, R.L. (1973) *Biochim.Biophys.Acta*, 300, 341.
- The Meldola medal lecture: Chemical aspects of glycoproteins, proteoglycans, and carbohydrate-protein complexes of human tissues.
Kennedy, J.F. (1973) *Chem.Soc.Rev.* 2, 355.
- Hydration of proteins and polypeptides.
Kuntz, jr, I.D. & Kauzmann, W. (1974) *Advan.Protein Chem.* 28, 239-345.
- Salt-dependent properties of proteins from extremely halophilic bacteria.
Lanyi, J.K. (1974) *Bacteriol.Rev.* 38, 272-290.
- Protein-calorie malnutrition in children and its relation to psychological development and behavior.
Latham, M.C. (1974) *Physiol.Rev.* 54, 541.
- Microtubule proteins in the nerve growth factor mediated response.
Levi-Montalcini, R., Revoltella, R. & Calissano, P. (1974) *Recent Progr.Horm.Res.* 30, 635.
- Interaction of regulator proteins with recognition sequences of DNA.
Lewin, B. (1974) *Cell*, 2, 1.
- X-ray studies of protein interactions.
Liljas, A. & Rossmann, M.G. (1974) *Annu.Rev.Biochem.* 43, 475-507.
- Enzymatic modifications and their possible roles in regulating the binding of basic proteins to DNA and in controlling chromosomal structure.
Louie, A.J., Candido, E.P.M. & Dixon, G.H. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 803.
- Solubilization and characterization of membrane proteins. A.1. Erythrocyte membranes.
Maddy, A.H. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges, 1973.* pp.21-62, Pergamon.
- Alpha-feto-protein. Proceedings of the INSERM symposium, Nice, France, March 1974.
Masseyeff, R., ed. (1974) 607pp., INSERM.
- Regulation of protein turnover. [Symposium]
Morgan, H.E., chairman (1974) *Fed.Proc.* 33, 1091.
- Report of a conference on protein and amino acid needs for growth and development.
Munro, H.N. (1974) *Amer.J.Clin.Nutr.* 27, 55.
- Conformational energy calculations and the folding of proteins. [In English and Spanish, followed by 5 reprinted articles]
Némethy, G. (1974) *PAAAS Rev.* 3, 51-104.
- Mutational pressure as the main cause of molecular evolution and polymorphism.
Ohta, T. (1974) *Nature*, 252, 351-354.
- The sixth Sir Hans Krebs Lecture: The biochemical requirements for bacterial division. In pursuit of protein X.
Pardee, A.B. (1974) *Eur.J.Biochem.* 43, 209.
- Gladiin: the protein mixture toxic to coeliac patients. [Occasional survey]
Patey, A.L. (1974) *Lancet*, I, 722-723.
- Symposium on proteinuria.
Pollak, V.E., ed. (1974) *Nephron*, 13, 7.
- Actin and myosin and cell movement.
Pollard, T.D. & Weiling, R.R. (Adelman, M.R., referee) (1974) *CRC Crit.Rev.Biochem.* 2, 1-65.
- Molecular orbital calculations on the conformation of amino acid residues of proteins.
Pullman, B. & Pullman, A. (1974) *Advan.Protein Chem.* 28, 347-526.
- Specific brain proteins: a biochemical and immunological review.
Rauch, H.C. & Einstein, E.R. (1974) *Rev.Neurosci.* 1, 283.
- Wirkungsänderungen von Arzneimitteln durch gegenseitige Störung ihrer Eiweissbindung und ihres Abbaus. Changing effects of drugs by reciprocal disturbances of their protein binding and their breakdown. [In German: English abstract]
Remmer, H. (1974) *Dtsch.Med.Wochenschr.* 99, 413.
- Alpha-fetoprotein: Immunochemical purification and chemical properties. Expression in normal state and in malignant and non-malignant liver disease.
Ruoslahti, E., Pihko, H. & Seppälä, M. (1974) *Transplant.Rev.* 20, 38.
- Spectroscopic studies on two-iron ferredoxins.
Sands, R.H. & Dunham, W.R. (1974) *Quart.Rev.Biochem.* 7, 443.
- Alpha fetoprotein: detection, isolation, and characterization.
Sarcione, E.J. (1973) *Methods Cancer Res.* 10, 85.
- Prediction of protein conformation.
Scheraga, H.A. (1973) *Curr.Top.Biochem.* 1.

Half-site reactivity.

Seydoux, F.J., Malhotra, O.P. & Bernhard, S.A.
(Stark, G.R., referee) (1974) *CRC Crit.Rev.Biochem.*
2, 227-257.

Biochemical polymorphisms in animals as models for man.

Siciliano, M.J., Wright, D.A. & Shaw, C.R. (1974)
Progr.Med.Genet. 10, 17.

Preliminary observations upon the proteins of the human lens.

Spector, A., Stauffer, J. & Sigelman, J. (1973) *The human lens - in relation to cataract: Ciba Foundn Symp.* pp.185-206.

The organization of proteins in the human red blood cell membrane. A review.

Steck, T.L. (1974) *J.Cell Biol.* 62, 1.

Aromatic contributions to circular dichroism spectra of proteins.

Strickland, E.H. (Beychok, S., referee) (1974) *CRC Crit.Rev.Biochem.* 2, 113-175.

A family of protein-cutting proteins.

Stroud, R.M. (1974) *Sci.Amer.* 231, no.1, 74-88.

Phosphoproteins.

Taborsky, G. (1974) *Advan.Protein Chem.* 28, 1-210.

Parallelism in the processing of pancreatic proteins.

Tartakoff, A.M., Greene, L.J., Jamieson, J.D. & Palade, G.E. (1974) *Advan.Cytopharmacol.* 2, 177.

Naturally occurring protein-proteinase inhibitors from animal and vegetable organisms.

Uhlig, H. & Kleine, R. (1974) *Pharmazie*, 29, 81.

Organisation of proteins in membranes with special reference to the cytochrome oxidase system.

Vanderkooi, G. (1974) *Biochim.Biophys.Acta*, 344, 307.

Structural aspects and biochemical function of erythrocyte.

Weser, U. (1973) *Struct.Bonding*, 17, 1-65.

Influenza viral proteins: identification and synthesis.

White, D.O. (1974) *Curr.Top.Microbiol.Immunol.* No.63, 1-48.

Adrenodoxin, ferredoxins and other iron-sulphur (non-heme-iron) proteins. Part II.

Wickramasinghe, R.H. (1974) *Enzyme*, 17, 227.

Adrenodoxin, ferredoxins and other iron-sulphur (non-heme-iron) proteins. Part I.

Wickramasinghe, R.H. & McIntosh, E.N. (1974) *Enzyme*, 17, 210.

Symposium on toxic proteins, peptides, and related substances.

Wilson, B.J. & others (1974) *J.Agric.Food Chem.* 22, 1-53.

Pharmacological and biochemical properties of microtubule proteins: Conference.

Wilson, L. & others (1974) *Fed.Proc.* 33, 151.

The information content of protein amino acid sequences.

Wu, T.T., Fitch, W.M. & Margoliash, E. (1974) *Annu. Rev.Biochem.* 43, 539-566.

Protein-lipid interactions in membranes. A.3.

Zahler, P. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges, 1973.* pp.205-244, Pergamon.

Solubilization and characterization of membrane proteins. A.1.2. Lymphocyte membranes.

Zola, H. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges, 1973.* pp.63-84, Pergamon.

PROTEINS, SYNTHESIS

The biosynthesis of collagen.

Bornstein, P. (1974) *Annu.Rev.Biochem.* 43, 567-603.

Functional units in protein biosynthesis. Seventh FEBS meeting, Varna (Bulgaria), September 1971.

Cox, R.A. & Hadjiolov, A.A., eds (1972) *FEBS Symp.* 23, 429pp.

Anomalies de structure des immunoglobulines: leurs apports dans l'étude du contrôle génétique de la synthèse de ces protéines.

Dantant, M., Rivat, C. & Ropartz, C. (1974) *Ann. Genet.Paris*, 17, 145-155.

Protein synthesis in reproductive tissue. Transactions of the 6th Karolinska symposium on research methods in reproductive endocrinology, Geneva, May 1973.

Diczfalusy, E., ed. (1973) 464pp., Karolinska Institutet, Stockholm.

Glutamine synthetase as a regulator of enzyme synthesis.

Magasanik, B., Prival, M.J., Brenchley, J.E., Tyler, B.M., DeLeo, A.B., Streicher, S.L., Bender, R.A. & Paris, C.G. (1974) *Curr.Top.Cell.Regul.* 8, 119.

GUG and UUG are initiation codons in vivo.

Miller, J.H. (1974) *Cell*, 1, 73.

The globin gene: structure and expression.

Paul, J., Gilmour, R.S., Affara, N., Birnie, G., Harrison, P., Hell, A., Humphries, S., Windass, J. & Young, B. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 885.

Regulation and gene expression in heterokaryons.

Ringertz, N.R. (1974) In: *Somatic cell hybridization* (Davidson, R.L. & de la Cruz, F.F., eds) p.239, Raven Press.

Normal and pathological protein synthesis in higher organisms. An international symposium held in Paris, May 1973.

Schapira, G., Dreyfus, J.-C., Kruh, J. & Labie, D., organisers (1973) 507pp., INSERM.

The biosynthesis of mitochondrial proteins.

Schatz, G. & Mason, T.L. (1974) *Annu.Rev.Biochem.* 43, 51-87.

The synthesis and degradation of membrane proteins.

Schimke, R.T. (1974) *Advan.Cytopharmacol.* 2, 63.

Genetic and antibiotic modification of protein synthesis.

Schlessinger, D. (1974) *Annu.Rev.Genet.* 8, 135.

Biosynthesis and metabolism of collagen and its role in tissue repair processes.

Shoshan, S. & Gross, J. (1974) *Isr.J.Med.Sci.* 10, 537.

The tRNA-mRNA complex of protein biosynthesis.

Thomas, B.R. (1974) *Biochimie*, 55, 1325.

Inhibitors of protein synthesis.

Vazquez, D. (1974) *FEBS Lett.* 40, Suppl. S63-S84.

Vitamin D, calcium and protein synthesis.

Wasserman, R.H. & Corradino, R.A. (1973) *Vitam.Horm.* 31, 43-103.

The role of protein factors in the biosynthesis of proteins.

Weissbach, H. & Brot, N. (1974) *Cell*, 2, 137.

Regulation of protein synthesis by cyclic AMP.

Wicks, W.D. (1974) *Advan.Cyclic Nucl.Res.* 4, 335.

PROTOZOA

Leishmania.

Bray, R.S. (1974) *Annu.Rev.Microbiol.* 28, 189.

Recent advances in cytochemistry and ultrastructure of cytoplasmic inclusions in Ciliophora (protozoa).

Dutta, G.P. (1974) *Int.Rev.Cytol.* 39, 285.

Symposium: Recent advances in biochemistry of the kinetoplastida.

Hill, G.C. & others (1974) *J.Protozool.* 21, 621.

Aging and long-term temporal regulation in ciliated protozoa. A critical review.

Nanney, D.L. (1974) *Mech.Ageing Dev.* 3, 81.

PURINES

Purine ribonucleotide catabolism: clinical and biochemical significance. Review.

Fox, I.H. (1974) *Nutr.Metab.* 16, 65.

Control of purine and pyrimidine synthesis.

Hitchings, G.H. & others (1974) *Advan.Enzyme Regul.* 12, 121-153.

PYRIMIDINES

Control of purine and pyrimidine synthesis.

Hitchings, G.H. & others (1974) *Advan.Enzyme Regul.* 12, 121-153.

A review: Biologic and clinical aspects of pyrimidine metabolism.

Levine, R.L., Hoodgenraad, N.J. & Kretchmer, N. (1974) *Pediatr.Res.* 8, 724.

Regulation of pyrimidine metabolism in mammalian and unicellular organisms.

Sweeney, M.J. & others (1974) *Advan.Enzyme Regul.* 12, 385-418.

RADIATION

Spontaneous and radiation induced tumors in animals.

Maisin, J.R. (1974) *Biomedicine*, 20, 102.

The neutron - Isaiah 40:21. The thirteenth Douglas Lea Memorial Lecture.

Martin, J.H. (1974) *Phys.Med.Biol.* 19, 1.

Symposium: Radiation genetics.

Russell, W.L., chairman (1974) *Genetics*, 78, 135-186.

REPRODUCTION

Biochemistry of mammalian fertilization.

McRorie, R.A. & Williams, W.L. (1974) *Annu.Rev.Biochem.* 43, 777-803.

RIBOSOMES

Resistance to antibiotics and alterations in the bacterial ribosome.

Brakier-Gingras, L. (1974) *Biomedicine*, 20, 267.

Ribosomes and cancer.

Delaunay, J. & Shapira, G. (1974) *Biomedicine*, 20, 328.

Ribosomes: Cold Spring Harbor Monograph Series.

Nomura, M., Tissières, A. & Lengyel, P., eds (1974) 930pp., Cold Spring Harbor Laboratory.

Active sites in *Escherichia coli* ribosomes.

Pongs, O., Nierhaus, K.H., Erdmann, V.A. & Wittmann, H.G. (1974) *FEBS Lett.* 40, Suppl. S28-S37.

Structural transformations of ribosomes (dissociation, unfolding and disassembly).

Spirin, A.S. (1974) *FEBS Lett.* 40, Suppl. S38-S47.

Ribosomes and RNA metabolism. Proceedings of 1st international symposium on ribosomes and RNA metabolism, Smolenice Castle, Czechoslovakia, June 1973.

Zelinka, J. & Balan, J., eds (1973) 625pp., Slovak Academy of Sciences.

RICKETTSIAE

Mycoplasmas and rickettsiae in relation to plant diseases.

Maramorosch, K. (1974) *Annu.Rev.Microbiol.* 28, 301.

RIFAMYCINS

The mode of action of rifamycins and related compounds on poxvirus.

Follett, E.A.C. & Pennington, T.H. (1973) *Advan.Virus Res.* 18, 105-142.

RNA

Virion and tumor cell antigens of C-type RNA tumor viruses.

Bauer, H. (1974) *Advan.Cancer Res.* 20, 275.

Immunoglobulin genes: a test of somatic vs. germ line hypothesis by RNA/DNA hybridization.

Delovitch, T. & Baglioni, C. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 739.

RNA-directed DNA polymerase - properties and functions in oncogenic RNA viruses and cells.

Green, M. & Gerard, G.F. (1974) *Progr.Nucleic Acid Res.* 14, 188.

RNA and DNA forms of the genetic material of C-type viruses and the integrated state of the DNA form in the cellular chromosome.

Hill, M. & Hillova, J. (1974) *Biochim.Biophys.Acta*, 355, 7.

RNA fractionation on hydroxyapatite columns.

Kothari, R.M. & Shankar, V. (1974) *J.Chromatogr.* 98, 449.

Some properties of RNA:protein complexes from the nucleus of eukaryotic cells.

Martin, T., Billings, P., Levey, A., Ozarslan, S., Quinlan, T., Swift, H. & Urbas, L. (1973) *cold Spring Harb.Symp.Quant.Biol.* 38, 921.

Relationships among RNA-directed DNA polymerase activities of avian viruses and chicken cells.

Mizutani, S., Kang, C.-Y. & Temin, H.M. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 289.

The biological effect of polyamines on heart RNA and histone metabolism.

Moruzzi, G., Caldarera, C.M. & Casti, A. (1974) *Mol.Cell.Biochem.* 3, 153.

RNA molecules bound to the folded bacterial genome stabilize DNA folds and segregate domains of super-coiling.

Pettijohn, D.E. & Hecht, R. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 31.

RNA metabolism in the brain.

Shashoua, V.E. (1974) *Int.Rev.Neurobiol.* 16, 183.

Animal RNA viruses: genome structure and function.

Shatkin, A.J. (1974) *Annu.Rev.Biochem.* 43, 643-665.

The cellular and molecular biology of RNA tumor viruses, especially avian leukosis-sarcoma viruses, and their relatives.

Temin, H.M. (1974) *Advan.Cancer Res.* 19, 48.

RNA-dependent DNA polymerases in animal cells: a question. [In English and Spanish, followed by 6 reprinted articles]

Weissbach, A. (1974) *PAABS Rev.* 3, 167-208.

Ribosomes and RNA metabolism. Proceedings of 1st international symposium on ribosomes and RNA metabolism, Smolenice Castle, Czechoslovakia, June 1973.

Zelinka, J. & Balan, J., eds (1973) 625pp., Slovak Academy of Sciences.

RNA, MESSENGER

Eukaryotic messenger RNA.

Brawerman, G. (1974) *Annu.Rev.Biochem.* 43, 621-642.

Sequence arrangement in mRNA: presence of poly(A) and identification of a repetitive fragment at the 5' end.

Crippa, M., Meza, I. & Dina, D. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 933.

Messenger RNAs for individual histone proteins: fingerprint analysis and In Vitro translation.

Grunstein, M., Levy, S., Schedl, P. & Keddes, L. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 717.

Origin of mRNA in HeLa cells and the implications for chromosome structure.

Jelinek, W., Molloy, G., Salditt, M., Wall, R., Sheiness, D. & Darnell, jr, J.E. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 891.

Sequences containing methylated nucleotides at the 5' termini of messenger RNAs: possible implications for processing.

Rottman, F., Shatkin, A.J. & Perry, R.P. (1974) *Cell*, 3, 197.

The tRNA-mRNA complex of protein biosynthesis.

Thomas, B.R. (1973) *Biochimie*, 55, 1325.

RNA, RIBOSOMAL

Secondary structure maps of ribosomal RNA and its precursors as determined by electron microscopy.

Wellauer, P.K. & Dawid, I.B. (1973) *cold Spring Harb.Symp.Quant.Biol.* 38, 525.

RNA, SYNTHESIS

Chromatin template activity and chromatin structure.

Axel, R., Cedar, H. & Felsenfeld, G. (1973) *cold Spring Harb.Symp.Quant.Biol.* 38, 773.

Nucleocapsids of large RNA viruses as functionally active units in transcription.

Bukrinskaya, A.G. (1973) *Advan.Virus Res.* 18, 195-255.

The selectivity of transcription.

Chamberlin, M.J. (1974) *Annu.Rev.Biochem.* 43, 721-775.

Control at the transcriptional level.

Coffey, D.S. & others (1974) *Advan.Enzyme Regul.* 12, 219-285.

Organization, transcription and regulation in the animal genome.

Davidson, E.H. & Britten, R.J. (1973) *Quart.Rev. Biol.* 48, 565-613.

Control of gene expression in prokaryotic systems.

Gros, F. (1974) *FEBS Lett.* 40, Suppl. S19-S27.

Chromatin and gene regulation in eukaryotic cells at the transcriptional level.

Hall, R.H. & Monahan, J.J. (Wang, T.Y., referee) (1974) *CRC Crit.Rev.Biochem.* 2, 67-112.

Organization and transcription of DNA in chromosomes and mitochondria of drosophila.

Laird, C.D., Chooi, W.Y., Cohen, E.H., Dickson, E., Hutchinson, N. & Turner, S.H. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 311.

Transcription and structure of the genome of the cellular slime mold *Dictyostelium discoideum*.

Lodish, H.F., Firtel, R.A. & Jacobson, A. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 899.

Transcription and chromatin structure.

McCarthy, B.J., Nishiura, J.T., Doenecke, D., Nasser, D.S. & Johnson, C.B. (1973) *Cold Spring Harb.Symp.Quant.Biol.* 38, 763.

New aspects in tRNA biosynthesis.

Schafer, K.P. & Söll, D. (1974) *Biochimie*, 56, 795.

Inhibitors of RNA and DNA biosynthesis. [Minireview]

Sung, S.-C. (1974) *Life Sci.* 15, 359-369.

RNA polymerase--promoter interactions: some general principles.

Travers, A. (1974) *Cell*, 3, 97.

RNA, TRANSFER

Clustered arrangement of tRNA genes of *Xenopus laevis*.
Clarkson, S.G. & Birnstiel, M.L. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 451.

Studies on the transfer RNA genes of drosophila.
Grigliatti, T.A., White, B.N., Tener, G.M., Kaufman, T.C., Holden, J.J. & Suzuki, D.T. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 461.

Synthesis of ribooligonucleotides having sequences of transfer ribonucleic acids.

Ikehara, M. (1974) *Acc. Chem. Res.* 7, 92.

Aminoacyl-tRNA synthetases: some recent results and achievements.

Kisselev, L.L. & Favorova, O.O. (1974) *Advan. Enzymol.* 40, 141.

New aspects in tRNA biosynthesis.

Schafer, K.P. & Söll, D. (1974) *Biochimie*, 56, 795.

Regulation of tRNA metabolism.

Sharma, O.K. & others (1974) *Advan. Enzyme Regul.* 12, 85-117.

Aminoacyl-tRNA transferases.

Soffer, R.L. (1974) *Advan. Enzymol.* 40, 91.

The tRNA-mRNA complex of protein biosynthesis.

Thomas, B.R. (1973) *Biochimie*, 55, 1325.

Tertiary structure of transfer ribonucleic acid. [In English and Spanish, followed by 5 reprinted articles]
Willick, G. (1974) *PAABS Rev.* 3, 897-946.

RNA, VIRAL

An electron microscope study of sindbis virus RNA.
Hsu, M-T., Kung, H-J. & Davidson, N. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 943.

Agents which inhibit reverse transcriptases. [Mini-review]

Smith, R.G. & Gallo, R.C. (1974) *Life Sci.* 15, 1711-1730.

SCHIZOPHRENIA

Symposium on catecholamines and their enzymes in the neuropathology of schizophrenia, May 1973.

Randrup, A. & others (1974) *J. Psychiatr. Res.* 11, 1.

Schizophrenia and the limbic system. [Occasional survey]

Torrey, E.F. & Peterson, M.R. (1974) *Lancet*, II, 942-946.

SKIN

Multiple tumors of the skin: clinical, histopathological, and genetic features.

Berendes, U. (1974) *Humangenetik*, 22, 181.

Progress in cytochemical differentiation of cellular infiltrates of the skin. [In German]

Burg, G. & Braun-Falco, O. (1974) *Hautarzt*, 25, 1.

Diabetes and skin - a review.

Haroon, T.S. (1974) *Scot. Med. J.* 19, 257.

Drug reactions: Cutaneous reactions to cytostatic agents.

Levantine, A. & Almeyda, J. (1974) *Brit. J. Dermatol.* 90, 239.

Structure-property relationships of skin - A polymer composite (144 references).

Wilkes, G.L., Wildnauer, R.H. & Brown, I.A. (Armeniadis, C.D., referee) (1973) *CRC Crit. Rev. Bioeng.* 1, 453.

SLEEP

Prolonged exposure to intermittent noise: audiometric, biochemical, motor, psychological and sleep effects.

Cantrell, R.W. (1974) *Laryngoscope*, 84, Suppl. 1.

Daily rhythms of steroid and associated pituitary hormones in man and their relationship to sleep.

Daly, J.R. & Evans, J.I. (1974) *Advan. Steroid Biochem. Pharmacol.* 4, 61.

The neuroendocrinology of human sleep. [Minireview]

Rubin, R.T., Poland, R.E., Rubin, L.E. & Gouin, P.R. (1974) *Life Sci.* 14, 1041-1052.

SODIUM

Properties and functions of (Na⁺+K⁺)-activated adenosinetriphosphatase.

Askari, A., ed. (1974) *Ann. N.Y. Acad. Sci.* 242, 6.

The interrelationship between sodium and calcium fluxes across cell membranes.

Blaustein, M.P. (1974) *Rev. Physiol. Biochem. Pharmacol.* 70, 33-82.

Renal handling of sodium. [Symposium]

Brenner, B.M. & others (1974) *Fed. Proc.* 33, 13.

Renin und Natrium in der Blutdruckregulation. [Renin and sodium in the regulation of blood pressure]

Brunner, H.R. & Gavras, H. (1974) *Schweiz. Med. Wochenschr.* 104, 1401.

Cellular mechanism of sodium transport: Symposium held in Berlin, September 1973.

Cuthbert, A.W. & others (1974) *Naunyn-Schmied. Arch. Pharmacol.* 281, 261.

The sodium-potassium adenosine-triphosphatase.

Dahl, J.L. & Hokin, L.E. (1974) *Annu. Rev. Biochem.* 43, 327-356.

Thyroid thermogenesis and active sodium transport.

Edelman, I.S. & Ismail-Beigi, F. (1974) *Recent Progr. Horm. Res.* 30, 235.

Cation transport in bacteria: K^+ , Na^+ , and H^+ .

Harold, F.M. & Altendorf, K. (1974) *Curr.Top.Membranes Transp.* 5, 1.

Sodium and chloride transport across isolated rabbit ileum.

Schultz, S.G. & Curran, P.F. (1974) *Curr.Top.Membranes Transp.* 5, 225.

The $(Na^+ + K^+)$ activated enzyme and its relationship to transport of sodium and potassium.

Skou, J.C. (1974) *Quart.Rev.Biophys.* 7, 401.

Regulation of the excretion of sodium and other electrolytes by the collecting duct. [Editorial review]

Stein, J.H. & Reineck, H.J. (1974) *Kidney Int.* 6, 1.

SPECTROSCOPY

Spectroscopy in biology and chemistry – neutron, X-ray, laser.

Chen, Sow-Hsin & Yip, S., eds (1974) 410pp., Academic Press.

Luminescence spectroscopy.

Cundall, R.B. & Palmer, T.F. (1973) *Annu.Rep.Progr.Chem.Sect.A*, 70, 31.

Electron spin resonance spectroscopy and free radical reactions.

Dixon, W.T. (1973) *Annu.Rep.Progr.Chem.Sect.B*, 70, 151.

Solutions to the hidden-resonance problem in proton nuclear magnetic resonance spectroscopy.

Hall, L.D. (1974) *Advan.Carbohydr.Chem.* 29, 11.

Organic mass spectrometry.

Johnstone, R.A.W. & Mellon, F.A. (1973) *Annu.Rep.Progr.Chem.Sect.B*, 70, 7.

Spectroscopic studies on two-iron ferredoxins.

Sands, R.H. & Dunham, W.R. (1974) *Quart.Rev.Biophys.* 7, 443.

X-ray absorption spectroscopy on free molecules.

Schwarz, W.H.E. (1974) *Angew.Chem.Int.Ed.Engl.* 13, 454-465.

Electron scattering spectroscopy.

Walker, I.C. (1974) *Chem.Soc.Rev.* 3, 467.

SPHINGOLIPIDS

See: LIPIDS

STEROIDS

See also: HORMONES AND REGULATORY SUBSTANCES

Radioimmunoassay of steroids in biological materials.

Abraham, G.E. (1974) *Acta Endocrinol.* 75, Suppl.183.

Cellular biochemical assessment of steroid activity.

Chayen, J., Bitensky, L., Butcher, R.G. & Altman, F.P. (1974) *Advan.Steroid Biochem.Pharmacol.* 4, 1.

Daily rhythms of steroid and associated pituitary hormones in man and their relationship to sleep.

Daly, J.R. & Evans, J.I. (1974) *Advan.Steroid Biochem.Pharmacol.* 4, 61.

Regulation of steroid biosynthesis.

Dempsey, M.E. (1974) *Annu.Rev.Biochem.* 43, 967-990.

Regulation of cell proliferation and regeneration in mammalian liver by corticosteroids and α -feto-globulin.

Desser-Wiest, L. (1974) *Wien.Klin.Wochenschr.* 86, 390.

Enzymes of sterol biosynthesis.

Gaylor, J.L. (1974) In: MTP International Review of Science, Biochemistry Series Vol.4, Biochemistry of lipids (Goodwin, T.W., ed.) p.1, Butterworths.

Fungal sterols and the mode of action of the polyene antibiotics.

Hamilton-Miller, J.M.T. (1974) *Advan.Appl.Microbiol.* 17, 109.

Radioimmunoassay and saturation analysis: steroids.

James, V.H.T. & Jeffcoate, S.L. (1974) *Brit.Med.Bull.* 30, 50-54.

Zur Therapie der Glomerulonephritis mit Corticosteroiden und Immunsuppressiva. Treatment of glomerulonephritis with corticosteroids and immunosuppressive drugs. [In German: English abstract]

Kampf, D. & Baethke, R. (1974) *Dtsch.Med.Wochenschr.* 99, 1151.

Steroid-cell interactions.

King, R.J.B. & Mainwaring, W.I.P. (1974) 458pp., Butterworth.

Terpenoids and steroids.

Marples, B.A. (1973) *Annu.Rep.Progr.Chem.Sect.B*, 70, 549.

The influence of intravenously administered cortisol – with and without the addition of insulin or pre-treatment with propranolol – on various parameters of fat and carbohydrate metabolism in blood plasma of human beings.

Mischke, W.J., Ebers, S., Boisch, K.H. & Tamm, J. (1974) *Acta Endocrinol., Suppl.* 186, 41pp.

Symposium: Phytosterols.

Patterson, G.W. & others (1974) *Lipids*, 9, 567-639.

The steroidal glycoalkaloid α -tomatine.

Roddick, J.G. (1974) *Phytochemistry*, 13, 9.

The role of cyclic AMP in the regulation of steroid biosynthesis in testis tissue.

Rommerts, F.F.G., Cooke, B.A. & van der Molen, H.J. (1974) *J.Steroid Biochem.* 5, 279.

Adrenocorticotrophic hormone and the control of adrenal corticosteroidogenesis.

Schulster, D. (1974) *Advan.Steroid Biochem.Pharmacol.* 4, 233.

STEROLS

See: STEROIDS

TECHNIQUES

See also: CHROMATOGRAPHY
SPECTROSCOPY

- Radioimmunoassay of steroids in biological materials.
Abraham, G.E. (1974) *Acta Endocrinol.* 75, Suppl.183.
- Electrophoresis and isoelectric focusing in polyacrylamide gel. Proceedings of the first Small Conference of the Blue Fingers, Tübingen, Germany, October 1972.
Allen, R.C. & Maurer, H.R., eds (1974) 316pp., Walter de Gruyter.
- Radioimmunoassay and saturation analysis: standardization and standards.
Bangham, D.R. & Cotes, P.M. (1974) *Brit.Med.Bull.* 30, 12-17.
- Microscopes, microscopy, and microbiology.
Barer, R. (1974) *Annu.Rev.Microbiol.* 28, 371.
- Image formation in optical and electron transmission microscopy.
Barnett, M.E. (1974) *J.Microsc. - Oxford*, 102, 1.
- Methods for selecting and studying temperature-sensitive mutants of BHK-21 cells.
Basilico, C. & Meiss, H.K. (1974) *Methods Cell Biol.* 8, 1.
- Freeze-etching: techniques and applications.
Benedetti, E.L. & Favard, P., eds (1973) 274pp., Société française de Microscopie Électronique (Paris).
- Methods of cell transformation by tumor viruses.
Benjamin, T.L. (1974) *Methods Cell Biol.* 8, 368.
- Large-scale isolation of nuclear membranes from bovine liver.
Berezney, R. (1974) *Methods Cell Biol.* 8, 205.
- Recent progress with laser microbeams.
Berns, M.W. (1974) *Int.Rev.Cytol.* 39, 383.
- Determination of the minimum gelling concentration as a measure of sickling tendency.
Bookchin, R. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 107.
- Quantitative light microscopic autoradiography.
Boren, H.G., Wright, E.C. & Harris, C.C. (1974) *Methods Cell Biol.* 8, 277.
- Atomic-fluorescence spectrometry as an analytical technique: a critical review.
Browner, R.F. (1974) *Analyst*, 99, 617.
- Haemoglobin stability tests.
Carrell, R.W. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 62.
- Immunoassay in the diagnostic laboratory.
Challand, G., Goldie, D. & Landon, J. (1974) *Brit. Med.Bull.* 30, 38-43.
- Methods for measurement of oxygen affinity.
Charache, S. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 105.
- Cytochemical bioassay of hormones. [Minireview]
Chayen, J., Bitensky, L. & Daly, J.R. (1974) *Life Sci.* 15, 191-201.
- Cytochemical techniques in hormone assay: Proceedings of a symposium held at the Kennedy Institute of Rheumatology, London, December 1973.
Chayen, J. & others (1974) *Clin.Endocrinol.* 3, 303.
- Separation of the peptide chains of human hemoglobins.
Clegg, J.B. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 77.
- Current developments in high voltage electron microscopy. [Special invited review]
Cosslett, V.E. (1974) *J.Microsc. - Oxford*, 100, 233.
- Photochemical probes for biological interactions. [Yearly review]
Creed, D. (1974) *Photochem.Photobiol.* 19, 459.
- Scanning transmission electron microscopy. [Special invited review]
Crewe, A.V. (1974) *J.Microsc. - Oxford*, 100, 247.
- Enucleation of somatic cells with cytochalasin B.
Croce, C.M., Tomassini, N. & Koprowski, H. (1974) *Methods Cell Biol.* 8, 145.
- Measurements of mammalian cellular DNA and its localization in chromosomes.
Deaven, L.L. & Petersen, D.F. (1974) *Methods Cell Biol.* 8, 179.
- Electron microscopic studies on the folded chromosome of *Escherichia coli*.
Deliuss, H. & Worcel, A. (1973) *Cold Spring Harb. Symp.Quant.Biol.* 38, 53.
- Starch gel electrophoresis.
Efremov, G.D. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 37.
- Radioimmunoassay and saturation analysis: basic principles and theory.
Ekins, R.P. (1974) *Brit.Med.Bull.* 30, 3-11.
- A review of methods and metabolic studies associated with the radio-iodination of lipoproteins.
Fidge, N.H. (1974) *Clin.Chim.Acta*, 52, 5.
- Ultrastructure research in biology before the introduction of the electron microscope. [Special invited review]
Frey-Wyssling, A. (1974) *J.Microsc. - Oxford*, 100, 21.
- Mass spectrometry in biochemistry and medicine. A monograph of the Mario Negri Institute for Pharmacological Research, Milan.
Frigerio, A. & Castagnoli, N., eds (1974) 389pp., Raven Press.
- The high voltage electron microscope in biology.
Glauert, A.M. (1974) *J.Cell Biol.* 63, 717.
- Uses of enucleated cells.
Goldman, R.D. & Pollack, R. (1974) *Methods Cell Biol.* 8, 123.
- Radio-immunoassay of human plasma parathormone. [Progress report]
Gueris, J. (1974) *Nouv.Presse Méd.* 3, 1612.
- Methods in the cellular and molecular biology of paramecium.
Hanson, E.D. (1974) *Methods Cell Biol.* 8, 320.
- Cell separation by gradient centrifugation.
Harwood, R. (1974) *Int.Rev.Cytol.* 38, 369.
- Trends and prospects in scanning electron microscopy. [Invited review]
Hayes, T.L. (1974) *J.Microsc. - Oxford*, 100, 133.
- Radioimmunoassay. C.2.
Hendrick, J.C. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges*, 1973, pp.619-641, Pergamon.

The application and value of immunofluorescence procedures in dermatology.

Holubar, K. (1974) *Wien.Klin.Wochenschr.* 86, 325.

Gas-phase and analytical methods, mass spectrometry and GC-MS-COM analytical systems.

Horning, E.C., Horning, M.G. & Stillwell, R.N. (1974) *Advan.Biomed.Eng.* 4, 1.

The ultra-low temperature autoradiography of water and its solutes.

Horowitz, S.B. (1974) *Methods Cell Biol.* 8, 249.

Ionic coupling between nonexcitable cells in culture.

Hulser, D.F. (1974) *Methods Cell Biol.* 8, 289.

Radioimmunoassay and saturation analysis: preparation and assessment of radioactive tracers.

Hunter, W.M. (1974) *Brit.Med.Bull.* 30, 18-23.

Red blood cell hemolysate preparation.

Huntsman, R.G. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 34.

Sickling tests - microscopic and nonmicroscopic.

Huntsman, R.G. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 45.

X-ray crystallography.

Hursthouse, M.B. & Neidle, S. (1973) *Annu.Rep.Progr.Chem.Sect.B*, 70, 46.

Methods of Hormone Radioimmunoassay.

Jaffe, B.M. & Behrman, H.R., eds (1974) 520pp., Academic Press.

Methods in Enzymology, vol.XXXIV. Affinity techniques -enzyme purification: part B.

Jakoby, W.B. & Wilchek, M., eds (1974) 810pp., Academic Press.

Radioimmunoassay and saturation analysis: steroids.

James, V.H.T. & Jeffcoate, S.L. (1974) *Brit.Med.Bull.* 30, 50-54.

Induction and isolation of auxotrophic mutants in mammalian cells.

Kao, F. & Puck, T.T. (1974) *Methods Cell Biol.* 8, 23.

A summary and evaluation of spin labels used as probes for biological membrane structure.

Keith, A.D., Sharnoff, M. & Cohn, G.E. (1973) *Biochim.Biophys.Acta*, 300, 379.

Determination of fetal hemoglobin - elution technique.

Kleihauer, E. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 50.

Studies on metabolic events in localized compartments of the living cell by rapid micro-spectrofluorometry.

Kohen, E., Thorell, B., Kohen, C. & Salmon, J.M. (1974) *Advan.Biol.Med.Phys.* 15, 271.

Localization of intracellular antigens by immunoelectron microscopy.

Kraehenbuhl, J.P. & Jamieson, J.D. (1974) *Int.Rev.Exp.Pathol.* 13, 2.

Electron spin resonance and nuclear magnetic resonance in biology and medicine and magnetic resonance in biological systems.

Lasker, S.E. & Milvy, P., eds (1973) *Ann.N.Y.Acad.Sci.* 222, 7.

Nuclear magnetic relaxation and the biological membrane.

Lee, A.G., Birdsall, N.J.M. & Metcalfe, J.C. (1974) *Methods Membrane Biol.* 2, 2.

A simplified method for the detection of mycoplasma.

Levine, E.M. (1974) *Methods Cell Biol.* 8, 229.

New techniques. C.3.

Little, A.J. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges*, 1973. pp.643-671, Pergamon.

Mass spectrometry in structural analysis of natural carbohydrates.

Lonngrén, J. & Svensson, S. (1974) *Advan.Carbohydr.Chem.* 29, 42.

The electron microscopy and composition of biological membranes and envelopes. A discussion.

Markham, R., Horne, R.W. & Hicks, R.M., organizers (1974) *Phil.Trans.Roy.Soc.London*, B, 268, No.891.

Monolayer mass culture on disposable plastic spirals.

Maroudas, N.G. (1974) *Methods Cell Biol.* 8, 93.

Nonspecific positive FTA-tests. [In German]

Meyer-Rohn, J. (1974) *Hautarzt*, 25, 528.

Chemical and biochemical applications of lasers. Vol.1.

Moore, C.B., ed. (1974) 398pp., Academic Press.

Advances in atom-probe field ion microscopy. [Invited review]

Müller, E.W. (1974) *J.Microsc. - Oxford*, 100, 121.

Isolation of temperature-sensitive mutants of mammalian cells.

Naha, P.M. (1974) *Methods Cell Biol.* 8, 41.

Stains for inclusion bodies.

Papayannopoulou, T. & Stamatiyannopoulos, G. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 66.

Modern technique in reflectance measurements.

[Special invited review]

Piller, H. (1974) *J.Microsc. - Oxford*, 100, 35.

Radioimmunoassay and saturation analysis: production of antibodies and binding reagents.

Playfair, J.H.L., Hum, B.A.L. & Schulster, D. (1974) *Brit.Med.Bull.* 30, 24-31.

Thermal investigations of biopolymer solutions and scanning microcalorimetry.

Privalov, P.L. (1974) *FEBS Lett.* 40, Suppl. S140-S153.

Separation techniques in saturation analysis.

Ratcliffe, J.G. (1974) *Brit.Med.Bull.* 30, 32-37.

Automated assay of drugs in body fluids.

Rhodes, C.T. & Hone, R.E. (1973) *Drug Metab.Rev.* 2, 221.

Automated nephelometric analysis. C.1.

Ritchie, R.F. & others (1974) *Protides of the biological fluids. Proc.21st Colloq.Bruges*, 1973. pp.569-617, Pergamon.

Statistical quality control and routine data processing for radioimmunoassays and immunoradiometric assays.

Rodbard, D. (1974) *Clin.Chem.* 20, 1255.

Microspectrofluorometry.

Rost, F.W.D. (1974) *Med.Biol.* 52, 73.

Nuclear magnetic resonance.

Sadler, I.H. (1973) *Annu.Rep.Progr.Chem.Sect.B*, 70, 22.

DNA sequencing techniques.

Salser, W.A. (1974) *Annu.Rev.Biochem.* 43, 923-965

Application of physical methods to the study of serum lipoproteins.

Scanu, A.M., Vitello, L.B. & Deganello, S. (Schumaker, V.N., referee) (1974) *CRC Crit.Rev.Biochem.* 2, 175-196.

A method for cloning anchorage-dependent cells in agarose.

Schmitt, C.M. & Maroudas, N.G. (1974) *Methods Cell Biol.* 8, 101.

Identification of hemoglobins by electrophoresis.

Schneider, R.G. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 41.

The use of autoradiographic techniques for the identification of mapping of transmitter-specific neurones in the brain. [Minireview]

Schon, F. & Iversen, L.L. (1974) *Life Sci.* 15, 157-175.

Interferences in diagnostic biochemical procedures.

Schwartz, M.K. (1973) *Advan.Clin.Chem.* 16, 1.

Scanning electron microscopy in the ultrastructural analysis of the mammalian cerebral ventricular system.

Scott, D.E., Kozlowski, G.P. & Sheridan, M.N. (1974) *Int.Rev.Cytol.* 37, 349.

Advances in microbial engineering, Part 2. Proceedings of the 1st international symposium on "Advances in microbial engineering", Mariánské Lázně, Czechoslovakia, Aug.28-Sept.1, 1972. [English abstracts]

Sikyta, B., Prokop, A. & Novák, M., eds (1973) *Bio-technol.Bioeng., Symp.No.4, Part 2.*

Some applications of calorimetry in biochemistry and biology.

Sturtevant, J.M. (1974) *Annu.Rev.Biophys.Bioeng.* 3, 35.

The properties of adrenal zona glomerulosa cells after purification by gravitational sedimentation.

Tait, J.F., Tait, S.A.S., Gould, R.P. & Mee, M.S.R. (1974) *Proc.Roy.Soc.London Ser.B*, 185, 375-407.

Preparation and use of replicate mammalian cell cultures.

Taylor, W.G. & Evans, V.J. (1974) *Methods Cell Biol.* 8, 47.

Methods of separation of deoxyribonucleic acids.

Toutain, D., Guérineau, M. & Paoletti, J. (1974) *Pathol.Biol.Semaine Hôp.* 22, 155.

Microscopical communication. [Special invited review]

Turner, G.L.E. (1974) *J.Microsc. - Oxford*, 100, 3.

Tracer techniques in nutrition.

Veall, N., chairman (1974) *Proc.Nutr.Soc.Engl.Scot.* 33, 1-38.

Methods for obtaining revertants of transformed cells.

Vogel, A. & Pollack, R. (1974) *Methods Cell Biol.* 8, 75.

Selection of the best method in stereology. [Special invited review]

Weibel, E.R. (1974) *J.Microsc. - Oxford*, 100, 261.

Fetal hemoglobin: whole blood quantitation and intracellular distribution.

White, J.M. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 53.

Peptide mapping of hemoglobin.

Winter, W.P. & Rucknagel, D.L. (1974) *CRC Crit.Rev.Clin.Lab.Sci.* 5, 79.

Immunoradiometric assay and related techniques.

Woodhead, J.S., Addison, G.M. & Hales, C.N. (1974) *Brit.Med.Bull.* 30, 44-49.

Isolation of mammalian heterochromatin and euchromatin.

Yasmin, W.G. & Yunis, J.J. (1974) *Methods Cell Biol.* 8, 151.

Electron microscope studies on spermiogenesis in various animal species.

Yasuzumi, G. (1974) *Int.Rev.Cytol.* 37, 53.

The electron microscopy of DNA.

Younghusband, H.B. & Inman, R.B. (1974) *Annu.Rev.Biochem.* 43, 605-619.

The use of protoplasts and separated cells in plant virus research.

Zaitlin, M. & Beachy, R.N. (1974) *Advan.Virus Res.* 19, 1.

Principles of competitive binding assays (saturation analyses). II. Sequential saturation.

Zettner, A. & Duly, P.E. (1974) *Clin.Chem.* 20, 83.

Repetitive synchronization of human lymphoblast cultures with excess thymidine.

Zielke, H.R. & Littlefield, J.W. (1974) *Methods Cell Biol.* 8, 107.

TERPENES

Triterpenoid saponins and their genins.

Agarwal, S.K. & Rastogi, R.P. (1974) *Phytochemistry*, 13, 2623.

The occurrence, structure elucidation and biosynthesis of the sesterterpenes.

Cordell, G.A. (1974) *Phytochemistry*, 13, 2343.

Terpenoids and steroids.

Maxples, B.A. (1973) *Annu.Rep.Progr.Chem.Sect.B*, 70, 549.

THYROID HORMONE

See: HORMONES AND REGULATORY SUBSTANCES

TISSUE CULTURE

Cell culture contaminants. [In Russian: English abstract]

Demidova, S.A. & Ritova, N.M. (1974) *vopr.Virusol.* No.5, 521.

TOXINS AND TOXIC SUBSTANCES

Interactions between membranes and cytolytic bacterial toxins.

Bernheimer, A.W. (1974) *Biochim.Biophys.Acta*, 344, 27.

Heavy metal toxicities.

Bremner, I. (1974) *Quart.Rev.Biophys.* 7, 75.

Recent studies on ochratoxins (149 references).

Chu, F.S. (Wilson, B.J., referee) (1974) *CRC Crit. Rev. Toxicol.* 2, 499.

Arsine poisoning.

Fowler, B.A. & Weissberg, J.B. (1974) *N.Engl.J.Med.* 291, 1171-1174.

Symposium on "Problems of threshold values of chronic toxic effects". Spring meeting of German Pharmacological Society, Mainz, March 1973.

Frohberg, H. & others (1974) *Arch.Toxicol.* 32, No.1.

Toxicological properties of surfactants.

Glohuber, Ch. (1974) *Arch.Toxicol. - Arch.Toxikol.* 32, 245.

Recent developments in the analysis of toxic elements.

Lisk, D.J. (1974) *Science*, 184, 1137-1141.

The metabolism of DDT in man.

Morgan, D.P. & Roan, C.C. (1974) *Essays Toxicol.* 5, 39.

Pharmacological models in contraceptive development animal toxicity and side-effects in man. Proceedings of a meeting organized by WHO in Geneva, September 1973.

Noel, P.R.B. & others (1974) *Acta Endocrinol.* 75, Suppl.185.

Symposium on toxins, Hachioji, Tokyo, July 1973. [In English]

Nozaki, M. & others (1974) *Jap.J.Med.Sci.Biol.* 27, 83.

Current perspectives on aerosol toxicity.

O'Connor Ward, C. (1974) *J.Soc.Cosmet.Chem.* 25, 271.

Toxins produced by phytopathogenic bacteria.

Patil, S.S. (1974) *Annu.Rev.Phytopathol.* 12, 259.

The toxins of *Clostridium botulinum*.

Schantz, E.J. & Sugiyama, H. (1974) *Essays Toxicol.* 5, 99.

Review of the literature.

Schlosser, L. (1974) *Arch.Toxicol. - Arch.Toxikol.* 31, 279-349.

The use of neuropoisons in the study of cholinergic transmission.

Simpson, L.L. (1974) *Annu.Rev.Pharmacol.* 14, 305.

Phytotoxins produced by plant parasites.

Strobel, G.A. (1974) *Annu.Rev.Plant Physiol.* 25, 541.

Toxicants occurring naturally in foods.

Strong, F.M. (1974) *Nutr.Rev.* 32, 225.

1972 Yant Memorial Lecture: New advances in the toxicology of carbon disulfide.

Teisinger, J. (1974) *Amer.Ind.Hyg.Assoc.J.* 35, 55.

Staphylococcus enterotoxins and methods of their detection. (Literature survey) [In Russian: English abstract]

Volovich, N.I. & Ladany, M.M. (1974) *Zh.Mikrobiol. Epidemiol.Immunobiol.* No.2, 28.

Chemistry and evolution of toxins in snake venom.

Yang, C.C. (1974) *Toxicon*, 12, 1.

TRACE ELEMENTS

Plutonium: biomedical research.

Blair, W.J. & Thompson, R.C. (1974) *Science*, 183, 715-722.

Monograph: A conspectus of research on zinc requirements of man.

Halsted, J.A., Smith, jr, J.C. & Irwin, M.I. (1974) *J.Nutr.* 104, 345.

The effects of some trace metals on marine phytoplankton (177 references).

McLeod, G.C., Rice, H.V. & Leighty, D.A. (Yentsch, C.S., referee) (1973) *CRC Crit.Rev.Microbiol.* 3, 27.

Newer candidates for essential trace elements.

Miller, W.J., chairman (1974) *Fed.Proc.* 33, 1747.

Interactions of histidine and other imidazole derivatives with transition metal ions in chemical and biological systems.

Sundberg, R.J. & Martin, R.B. (1974) *Chem.Rev.* 74, 471.

TRANSPORT

Active transport and binding in mitochondria.

Azzone, G.F. & Massari, S. (1973) *Biochim.Biophys. Acta*, 301, 195.

Bacterial transport.

Boos, W. (1974) *Annu.Rev.Biochem.* 43, 123-146.

Pro and contra carrier proteins; sugar transport via the periplasmic galactose-binding protein.

Boos, W. (1974) *Curr.Top.Membranes Transp.* 5, 51.

The means of distinguishing between hydrogen secretion and bicarbonate reabsorption: theory and applications to the reptilian bladder and mammalian kidney.

Brodsky, W.A. & Schilb, T.P. (1974) *Curr.Top.Membranes Transp.* 5, 161.

Energization of amino acid transport, studied for the Ehrlich ascites tumor cell.

Christensen, H.N., de Cespedes, C., Handlogten, M.E. & Ronquist, R. (1973) *Biochim.Biophys.Acta*, 300, 487.

Symposium: Movement of ions across biological membranes.

Coster, H.G.L. & others (1974) *Proc.Aust.Physiol.* 5, 2.

Cellular mechanism of sodium transport: Symposium held in Berlin, September 1973.

Cuthbert, A.W. & others (1974) *Naunyn-Schmied.Arch. Pharmacol.* 281, 261.

Kinetic studies of transport across red blood cell membranes.

Ellam, Y. & Stein, W.D. (1974) *Methods Membrane Biol.* 2, 283.

Uric acid in nonhuman primates with special reference to its renal transport.

Fanelli, jr, G.M. & Beyer, jr, K.H. (1974) *Annu.Rev. Pharmacol.* 14, 355.

Mass transport phenomena and models: theoretical concepts.

Flynn, G.L., Yalkowsky, S.H. & Roseman, T.J. (1974) *J.Pharm.Sci.* 63, 479.

- Regulation of membrane transport in eukaryotes.
Guidotti, G.G., Gazzola, G.C. & Franchi-Gazzola, R. (1974) *Advan.Cytopharmacol.* 2, 155.
- Genetics of amino acid transport in bacteria.
Halpern, Y.S. (1974) *Annu.Rev.Genet.* 8, 103.
- Cation transport in bacteria: K^+ , Na^+ , and H^+ .
Harold, F.M. & Altendorf, K. (1974) *Curr.Top.Membranes Transp.* 5, 1.
- Transport of sugars in tumor cell membranes.
Hatanaka, M. (1974) *Biochim.Biophys.Acta*, 355, 77.
- Coupling and energy transfer in active amino acid transport.
Heinz, E. (1974) *Curr.Top.Membranes Transp.* 5, 137.
- Transport studies in bacterial membrane vesicles.
Kaback, H.R. (1974) *Science*, 186, 882-892.
- The metabolic significance of anion transport in mitochondria.
Meijer, A.J. & van Dam, K. (1974) *Biochim.Biophys.Acta*, 346, 213.
- Transport of nucleosides, nucleic acid bases, choline and glucose by animal cells in culture.
Plagemann, P.G.W. & Richey, D.P. (1974) *Biochim.Biophys.Acta*, 344, 263.
- The mechanism of active transport in bacterial membrane vesicles. [In English and Spanish, followed by 5 reprinted articles]
Reeves, J.P. & Kaback, H.R. (1974) *PAABS Rev.* 3, 209-268.
- Sodium and chloride transport across isolated rabbit ileum.
Schultz, S.G. & Curran, P.F. (1974) *Curr.Top.Membranes Transp.* 5, 225.
- The $(Na^+ + K^+)$ activated enzyme and its relationship to transport of sodium and potassium.
Skou, J.C. (1974) *Quart.Rev.Biophys.* 7, 401.
- Molecular events taking place during intracellular transport of exportable proteins. The conversion of peptide hormone precursors.
Steiner, D.F., Kemmler, W., Tager, H.S. & Rubenstein, A.H. (1974) *Advan.Cytopharmacol.* 2, 195.
- Current concepts of lymphatic transport. [Collective review]
Sterns, E.E. (1974) *Surg.Gynecol.Obstet.* 138, 773.
- Transport pathways in biological membranes.
Ussing, H.H., Erlj, D. & Lassen, U. (1974) *Annu.Rev.Physiol.* 36, 17-49.
- Phloem transport: physical chemical or impossible.
Wardlaw, I.F. (1974) *Annu.Rev.Plant Physiol.* 25, 515.
- VIRUSES**
See also: BACTERIOPHAGES
- Virion and tumor cell antigens of C-type RNA tumor viruses.
Bauer, H. (1974) *Advan.Cancer Res.* 20, 275.
- Methods of cell transformation by tumor viruses.
Benjamin, T.L. (1974) *Methods Cell Biol.* 8, 368.
- Host-virus interactions in murine mammary carcinogenesis.
Bentvelzen, F. (1974) *Biochim.Biophys.Acta*, 355, 236.
- T cell responses to viral and bacterial infection.
Blanden, R.V. (1974) *Transplant.Rev.* 19, 56.
- Structural components of RNA tumor viruses.
Bolognesi, D.P. (1974) *Advan.Virus Res.* 19, 315.
- Biochemical properties of oncornavirus polypeptides.
Bolognesi, D.P., Huper, G., Green, R.W. & Graf, T. (1974) *Biochim.Biophys.Acta*, 355, 220.
- Biosynthesis of glycolipids in virus-transformed cells.
Brady, R.O. & Fishman, P.H. (1974) *Biochim.Biophys.Acta*, 355, 121.
- Nucleocapsids of large RNA viruses as functionally active units in transcription.
Bukrinskaya, A.G. (1973) *Advan.Virus Res.* 18, 195-255.
- Viruses.
Cameron, C.H. & Dane, D.S. (1974) *Brit.Med.Bull.* 30, 90-92.
- Simian herpesviruses and neoplasia.
Deinhardt, F.W., Falk, L.A. & Wolfe, L.G. (1974) *Advan.Cancer Res.* 19, 167.
- Viroids: the smallest known agents of infectious disease.
Diener, T.O. (1974) *Annu.Rev.Microbiol.* 28, 23.
- The latent herpes simplex virus.
Docherty, J.J. & Chopan, M. (1974) *Bacteriol.Rev.* 38, 337-355.
- T-cell mediated immunopathology in viral infections.
Doherty, P.C. & Zinkernagel, R.M. (1974) *Transplant.Rev.* 19, 89.
- Adenoassociated viruses. [In Russian: English abstract]
Dreizin, R.S. (1974) *Vopr.Virusol.* No.3, 260.
- The yellowing virus diseases of beet.
Duffus, J.E. (1973) *Advan.Virus Res.* 18, 347-386.
- Genetics of DNA tumor viruses.
Eckhart, W. (1974) *Annu.Rev.Genet.* 8, 301.
- The mode of action of rifamycins and related compounds on poxvirus.
Follett, E.A.C. & Pennington, T.H. (1973) *Advan.Virus Res.* 18, 105-142.
- Plant rhabdoviruses.
Francki, R.I.B. (1973) *Advan.Virus Res.* 18, 257-345.
- Slow virus diseases.
Fuccillo, D.A., Kurent, J.E. & Sever, J.L. (1974) *Annu.Rev.Microbiol.* 28, 231.
- Viruses and invertebrates.
Gibbs, A.J., ed. (1973) 669pp., American Elsevier Publ.Co.
- The genetic control of leukemogenesis. I. Genetic systems involved at the level of virus-cell interaction.
Gisselbrecht, S. & Levy, J.P. (1974) *Biomedicine*, 20, 95.
- Group antigens and antigenic determinants of reverse transcriptase of type C oncornavirus.
Gomard, E. & Levy, J.-P. (1974) *Pathol.Biol.Semaine Hôp.* 22, 621.
- RNA-directed DNA polymerase - properties and functions in oncogenic RNA viruses and cells.
Green, M. & Gerard, G.F. (1974) *Progr.Nucleic Acid Res.* 14, 188.

- Capsid structure of isometric viruses. [In Russian: English abstract]
Grigoriev, V.B. & Klimenko, S.M. (1974) *Vopr.Virusol. No.4*, 387.
- Replication of plant viruses.
Hamilton, R.I. (1974) *Annu.Rev.Phytopathol.* 12, 223.
- Remarks on the ultrastructure of type A, B, and C virus particles.
de Harven, E. (1974) *Advan.Virus Res.* 19, 221.
- RNA and DNA forms of the genetic material of C-type viruses and the integrated state of the DNA form in the cellular chromosome.
Hill, M. & Hillova, J. (1974) *Biochim.Biophys.Acta*, 355, 7.
- Activation of mammalian leukemia viruses.
Hirsch, M.S. & Black, P.H. (1974) *Advan.Virus Res.* 19, 265.
- Slow, inapparent and recurrent viruses.
Holland, J.J. (1974) *Sci.Amer.* 230, no.2, 32-40.
- Neuraminidase of orthomyxoviruses. [In Russian: English abstract]
Isaeva, E.S. & Sokolov, M.I. (1974) *Vopr.Virusol. No.5*, 515.
- Plant viruses with a multipartite genome.
Jaspars, E.M.J. (1974) *Advan.Virus Res.* 19, 37.
- The effect of hydrocortisone and bromodeoxyuridine (BUDR) on the Epstein-Barr herpes virus in human lymphoblastoid cell lines.
Joncas, J.H. & Leyritz, M. (1974) *Rev.Can.Biol.* 33, 135.
- Viral transformation and endogenous viruses. Proceedings of the 1974 Abraham Flexner Symposium, Nashville, Tennessee, April 1974.
Kaplan, A.S., ed. (1974) 171pp., Academic Press.
- Workshop on molecular and pathogenic aspects of measles virus, Belfast, Northern Ireland, April 1974.
Kingsbury, D.W. & others (1974) *Med.Microbiol. Immunol.* 160, 75.
- Initial effects of viral infection in bacterial and animal host cells.
Kohn, A. & Fuchs, P. (1973) *Advan.Virus Res.* 18, 159-194.
- Viruses, immune functions, and antigenic determinants in heterokaryons and hybrids.
Koprowski, H. & Knowles, B. (1974) In: Somatic cell hybridization (Davidson, R.L. & de la Cruz, F.F., eds) Raven Press, p.71.
- Viruses, evolution and cancer: Basic considerations. Proceedings of the 2nd international conference of comparative virology, Mont Gabriel, Canada, August 1973.
Kurstak, E. & Maramorosch, K., eds (1974) 813pp., Academic Press.
- The immune response to virally determined tumor associated antigens.
Lamon, E.W. (1974) *Biochim.Biophys.Acta*, 355, 149.
- The bromoviruses.
Lane, L.C. (1974) *Advan.Virus Res.* 19, 152.
- Polypeptides of influenza viruses.
Laver, W.G. (1973) *Advan.Virus Res.* 18, 57-103.
- Fungal viruses.
Lenke, P.A. & Nash, C.H. (1974) *Bacteriol.Rev.* 38, 29-56.
- The membrane structure of lipid-containing viruses.
Lenard, J. & Compans, R.W. (1974) *Biochim.Biophys. Acta*, 344, 51.
- The replication of papovavirus DNA.
Levine, A.J. (1974) *Progr.Med.Virol.* 17, 1.
- Antigens of murine leukemia viruses.
Lilly, F. & Steeves, R. (1974) *Biochim.Biophys.Acta*, 355, 105.
- Viruses as immunological adjuvants in cancer.
Lindenmann, J. (1974) *Biochim.Biophys.Acta*, 355, 49.
- Proteolytic enzymes in virologic investigations. [In Russian: English abstract] [Survey]
Lozitsky, V.P. & Degtyarenko, V.I. (1974) *Vopr. Virusol. No.2*, 131.
- Virus-associated enzymes. [Minireview]
McAuslan, B.R. (1974) *Life Sci.* 14, 2085-2097.
- Histocompatibility-linked genetic control of specific immune responses to viral infection.
McDevitt, H.O., Oldstone, M.B.A. & Pincus, T. (1974) *Transplant.Rev.* 19, 209.
- Slow-virus diseases of the central nervous system.
Marsh, R.F. (1974) *Advan.Vet.Sci.Comp.Med.* 18, 155.
- Classification and nomenclature of viruses 1974.
Melnick, J.L. (1974) *Progr.Med.Virol.* 17, 290.
- Factors in the mechanism of persistence of viral infections.
Mims, C.A. (1974) *Progr.Med.Virol.* 18, 1.
- Relationships among RNA-directed DNA polymerase activities of avian viruses and chicken cells.
Mizutani, S., Kang, C.-Y. & Temin, H.M. (1973) *Cold Spring.Harb.Symp.Quant.Biol.* 38, 289.
- Medical reviews. Coronaviruses.
Monto, A.S. (1974) *Yale J.Biol.Med.* 47, 234.
- Biochemical and biophysical properties of the arena-viruses.
Pfau, C.J. (1974) *Progr.Med.Virol.* 18, 64.
- Relationship of sigma virus to vesicular stomatitis virus.
Printz, P. (1973) *Advan.Virus Res.* 18, 143-157.
- Herpesviruses and cancer.
Rapp, F. (1974) *Advan.Cancer Res.* 19, 265.
- Viruses and evolution.
Reamney, D.C. (1974) *Int.Rev.Cytol.* 37, 21.
- Virus-induced modification of cellular membranes related to viral structure.
Rifkin, D.B. & Quigley, J.P. (1974) *Annu.Rev.Microbiol.* 28, 325.
- Structure of the influenza virion.
Schulze, I.T. (1973) *Advan.Virus Res.* 18, 1-55.
- Antiviral agents.
Schwartz, A.R. (1974) *Annu.Rep.Med.Chem.* 7, 128.
- The structure and assembly of small mammalian RNA viruses. [In English and Spanish, followed by 5 reprinted articles]
Scraba, D.G. & Colter, J.S. (1974) *PAABS Rev.* 3, 401-474.

Immunopathology in virus infections. [In Russian: English abstract]
Semenov, B.F. & Gavrillov, V.I. (1974) *Vopr. Virusol.* No. 1, 3.

Animal RNA viruses: genome structure and function.
Shatkin, A.J. (1974) *Annu. Rev. Biochem.* 43, 643-665.

Progress with antiviral agents.
Shugar, D. (1974) *FEBS Lett.* 40, Suppl. S48-S62.

Virus-cell interactions and viral antimetabolites.
Seventh FEBS meeting, Varna (Bulgaria), September 1971.
Shugar, D., ed. (1972) *FEBS Symp.* 22, 231pp.

Whither virology? Trends and prospects in medical research.
Stuart-Harris, C. (1974) *Postgrad. Med. J.* 50, 1.

The cellular and molecular biology of RNA tumor viruses, especially avian leukosis-sarcoma viruses, and their relatives.
Temin, H.M. (1974) *Advan. Cancer Res.* 19, 48.

On the origin of RNA tumor viruses.
Temin, H.M. (1974) *Annu. Rev. Genet.* 8, 155.

Antiviral agents.
Tilles, J.G. (1974) *Annu. Rev. Pharmacol.* 14, 469.

Influenza viral proteins: identification and synthesis.
White, D.O. (1974) *Curr. Top. Microbiol. Immunol.* No. 63, 1-48.

The genetics of C-type RNA tumor viruses.
Wyke, J.A. (1974) *Int. Rev. Cytol.* 38, 68.

The use of protoplasts and separated cells in plant virus research.
Zaitlin, M. & Beachy, R.N. (1974) *Advan. Virus Res.* 19, 1.

Viruses as a factor of evolution: exchange of genetic information in the biosphere.
Zhdanov, V.M. & Tikchonenko, T.I. (1974) *Advan. Virus Res.* 19, 361.

Viral hepatitis, the B antigen and liver cancer.
Zuckerman, A.J. (1974) *Cell*, 1, 65.

The antigenic complexity of hepatitis B virus.
Zuckerman, A.J. (1974) *Cell*, 1, 157.

VISION

Vascular basement membrane changes in diabetic retinopathy. Montgomery lecture, 1973.
Ashton, N. (1974) *Brit. J. Ophthalmol.* 58, 344-366.

Ocular myopathy. A case history with electron microscopy, biochemistry and review of literature.
Bastiaansen, L.A.K., Hommes, O.R. & Stadhouders, A.M. (1974) *Ophthalmologia*, 168, 325.

Development of functional connexions in the mammalian visual system.
Blakemore, C. (1974) *Brit. Med. Bull.* 30, 152-157.

Growing insight into the structure of β -crystallin. A review.
Bloemendal, H. & Herbrink, P. (1974) *Ophthalmic Res.* 6, 81.

Der Metabolismus der gesunden und kranken Hornhaut (Metabolism of normal and diseased cornea). [In German: English abstract]
Böke, W. & Thiel, H.-J. (1973) *Klin. Monatsbl. Augenheilk.* 163, 647.

Membrane lipids and proteins in ageing lens and cataract.
Broekhuysse, R.M. (1973) *The human lens - in relation to cataract: Ciba Foundn Symp.* pp.135-149.

Low molecular weight proteins of the lens.
Croft, L.R. (1973) *The human lens - in relation to cataract: Ciba Foundn Symp.* pp.207-226.

Role of membranes in controlling ion and water movements in the lens.
Duncan, G. (1973) *The human lens - in relation to cataract: Ciba Foundn Symp.* pp.99-116.

Proceedings of the National Eye Institute Conference on Rhodopsin, its chemistry and function, Part II.
Futterman, S., Kinoshita, J.H. & Shichi, H., eds (1974) *Exp. Eye Res.* 18, No. 1.

The structure and spectra of the chromophore of the visual pigments.
Honig, B. & Ebrey, T.G. (1974) *Annu. Rev. Biophys. Bioeng.* 3, 151.

Recent advances in ophthalmic genetics: Genetic counselling.
Jay, B. (1974) *Brit. J. Ophthalmol.* 58, 427-437.

Mechanisms initiating cataract formation. Proctor lecture, 1974.
Kinoshita, J.H. (1974) *Invest. Ophthalmol.* 13, 713.

Annual review: Cornea and sclera.
Lemp, M.A. (1974) *Arch. Ophthalmol.* 92, 158.

The challenge of the retinal pigment epithelium. Lang lecture.
Newell, F.W. (1974) *Proc. Roy. Soc. Med.* 67, 1233-1236.

Vitamin A deficiency, xerophthalmia and blindness.
Oomen, H.A.P.C. (1974) *Nutr. Rev.* 32, 161.

The chemical basis of human colour vision. [Invited lecture]
Rushton, W.A.H. (1974) *Proc. Aust. Physiol. Pharmacol.* 5, 153.

Preliminary observations upon the proteins of the human lens.
Spector, A., Stauffer, J. & Sigelman, J. (1973) *The human lens - in relation to cataract: Ciba Foundn Symp.* pp.185-206.

The glucoside of 3-hydroxykynurenine and other fluor-escence compounds in the human lens.
Van Heyningen, R. (1973) *The human lens - in relation to cataract: Ciba Foundn Symp.* pp.151-171.

Genetics and physiology of colour vision II.
Waalder, G.H.M. (1974) *Acta Ophthalmol.* 5, Suppl. 124, 41pp.

Visual pigments and photoreceptors - review and outlook.
Wald, G. (1974) *Exp. Eye Res.* 18, 333.

Rhodopsin, its chemistry and function.
Worthington, C.R. & others (1973) *Exp. Eye Res.* 17, No. 6.

Immunologie in der Augenheilkunde. The place of immunology in ophthalmology. [In German: English abstract]
Zirm, M. & Schmut, O. (1974) *Wien. Klin. Wochenschr.* 86, 205.

VITAMINS AND COENZYMES

Recent research on Vitamin B₁₂. Reports from a Dumex Symposium at Elingaard, Fredrikstad, Norway, January 1974.

Gjone, E., ed. (1974) *Scand. J. Gastroenterol.* 9, No. S-29.

Vitamin D: mode of action and biomedical applications.
Haussler, M.R. (1974) *Nutr. Rev.* 32, 257.

Chemistry and biological activity of vitamin D, its metabolites and analogs.

Holick, M.F. & Deluca, H.F. (1974) *Advan. Steroid Biochem. Pharmacol.* 4, 112.

Vitamin D metabolism.

Holick, M.F. & Deluca, H.F. (1974) *Annu. Rev. Med.* 25, 349.

Vitamin E: biochemistry, nutritional requirements and clinical studies. [Symposium]

Horwitt, M.K., guest ed. (1974) *Amer. J. Clin. Nutr.* 27, 939; 1105.

Pharmacological properties and clinical applications of different Vitamin K preparations. [In Russian: English abstract]

Lakin, K.M., Krylov, Yu.F., Enikeeva, D.A. & Bogdanov, N.G. (1974) *Farmakol. Toksikol.* 37, 620.

Factors influencing the metabolic availability of ascorbic acid. I. The effect of sex.

Loh, H.S., Odumosu, A. & Wilson, C.W.M. (1974) *Clin. Pharmacol. Ther.* 16, 390.

Parathyroid hormone, calcitonin, and vitamin D.

MacIntyre, I. (1974) *Curr. Top. Exp. Endocrinol.* 2, 179.

Symposium on vitamin K.

Mann, K.G. & others (1974) *Mayo Clin. Proc.* 49, 911.

1,25-Dihydroxycholecalciferol - a hormonally active form of Vitamin D₃.

Norman, A.W. & Henry, H. (1974) *Recent Progr. Horm. Res.* 30, 431.

Folic acid deficiency and epilepsy.

Norris, J.W. & Pratt, R.F. (1974) *Drugs*, 8, 366-385.

Vitamin A deficiency, xerophthalmia and blindness.

Oomen, H.A.P.C. (1974) *Nutr. Rev.* 32, 161.

Biosynthesis of water-soluble vitamins.

Plaut, G.W.E., Smith, C.M. & Alworth, W.L. (1974) *Annu. Rev. Biochem.* 43, 899-922.

Vitamin Q. [Minireview]

Quick, A.J. (1974) *Life Sci.* 15, 1-6.

Vitamin-responsive inborn errors of metabolism (the hereditary vitamin dependencies). The first Milner lecture.

Scriver, C.R. (1973) *Society for the Study of Inborn Errors of Metabolism, Symp. No. 10*, pp. 127-148.

8 α -substituted flavins of biological importance.

[Review letter]

Singer, T.P. & Edmondson, D.A. (1974) *FEBS Lett.* 42, 1-14.

Vitamin D, calcium and protein synthesis.

Wasserman, R.H. & Corradino, R.A. (1973) *Vitam. Horm.* 31, 43-103.

Studies on tryptophan metabolism in man. The effects of hormones and vitamin B₆ on urinary excretion of metabolites of the kynurenine pathway.

Wolf, H. (1974) *Scand. J. Clin. Lab. Invest.* 33, Suppl. 136.

YEASTS

Some aspects of the structure, biosynthesis, and genetic control of yeast mannans.

Ballou, C.E. (1974) *Advan. Enzymol.* 40, 239.

The lysis of the cell wall of yeasts.

Blechsmidt, D. & Tröger, R. (1974) *Z. Allg. Mikrobiol.* 14, 245-257.

Duplication of spindle plaques and integration of the yeast cell cycle.

Byers, B. & Goetsch, L. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 123.

A molecular model for morphogenesis: the primary septum of yeast.

Cabib, E., Ulane, R. & Bowers, B. (1974) *Curr. Top. Cell. Regul.* 8, 2.

Saccharomyces cerevisiae cell cycle.

Hartwell, L.H. (1974) *Bacteriol. Rev.* 38, 164-198.

Yeast chromosomal DNA: size, structure, and replication.

Peters, T.D., Newlon, C.S., Byers, B. & Fangman, W.L. (1973) *Cold Spring Harb. Symp. Quant. Biol.* 38, 9.