

SUBJECT INDEX

- Acetate
On the mechanism of ——— enhancement of renal p-aminohippurate transport (Kin, Hook) (290) 368
- Adenylate cyclase
Role of phosphatidylserine in the hormonal control of ——— of rat liver plasma membranes (Rethy et al) (290) 58
- Alanine oligopeptides
Hydrolysis of ——— by an enzyme located in the membrane of *Mycoplasma laidlawii* (Pecht et al) (290) 267
- Alkaline phosphatase
Effect of Ca^{2+} on the ATPase activity of pig kidney ——— (Wass, Butterworth) (290) 321
- p-Aminohippurate transport
On the mechanism of acetate enhancement of renal ——— (Kim, Hook) (290) 368
- Anaesthetics
NMR evidence for the hydrophobic interaction of local ——— Possible relation to their potency (Cerbón) (290) 51
- Anion
———diffusion across artificial lipid membranes. The effects of lysozyme on anion diffusion from phospholipid liposomes (Kaplan) (290) 339
- Antigen
Biochemical characterization of a lipid-dependent membrane protein ——— in HK sheep red cells (Schrager et al) (290) 186
- Aromatic compounds
Evidence for specific transport mechanisms for ——— in bacterium N.C.I.B. 8250 (Cook, Fewson) (290) 384
- L-Aspartate transport
Kinetics of ——— in *Neurospora crassa* conidia (Wolfenbarger, DeBusk) (290) 355
- ATPase
Effect of Ca^{2+} on the ——— activity of pig kidney alkaline phosphatase (Wass, Butterworth) (290) 321
- ATPase
Internal localization of *Micrococcus lysodeikticus* membrane ——— by iodination with ^{125}I (Salton et al) (290) 408
- Bladder
Mechanism of acidification of the mucosal fluid by the toad urinary — (Frazier, Vanatta) (290) 168
- Brush border membrane
N-Ethylmaleimide labeling of a phlorizin-sensitive D-glucose binding site of ——— from the rat kidney (Thomas et al) (290) 125
- Brush border membranes
Inhibition of $[\text{^3H}]$ phlorizin binding to isolated kidney ——— by phlorizin-like compounds (Bode et al) (290) 134
- Bursicon
———: Its effect on tyrosine permeation into insect haemocytes (Post) (290) 424
- Calcium
——— binding to the rat liver plasma membrane (Shlatz, Marinetti) (290) 70
- Calcium ions
Effect of ——— on the ATPase activity of pig kidney alkaline phosphatase (Wass, Butterworth) (290) 321
- Calcium ions
Effects of inclusion of ———, Mg^{2+} , EDTA or EGTA during the preparation of erythrocyte ghosts by hypotonic haemolysis (Bramley, Coleman) (290) 219
- Cells
High-voltage electron microscopy of wet whole cancer and normal ——— Visualization of cytoplasmic structures and surface projections (Parsons et al) (290) 110
- Cells
Interactions of potassium, sodium and strophanthidin during active transport of Na^+ in frog muscle ——— (Wu, Sjodin) (290) 327
- Cell envelope
Isolation and characterization of *Escherichia coli* mutant with alteration in the outer membrane proteins of the ——— (Wu) (290) 274
- Cholesterol
Effect of ——— and water on the rigidity and order of phosphatidylcholine bilayers (Boggs, Hsia) (290) 32
- Cholesterol-lecithin mixtures
Laser-Raman spectroscopic study of egg lecithin and egg ——— (Mendelsohn) (290) 15
- Cortisol
Membrane changes in HeLa cells with ——— (Tu et al) (290) 92
- Electroplax membranes
 $[\text{^3H}]$ Ouabain binding to a hydrophobic protein from ——— (Rivas et al) (290) 419
- Epithelial basement membranes
———. The isolation and identification of a soluble component (Johnson, Starcher) (290) 158
- Erythrocytes
Biochemical characterization of a lipid-dependent membrane protein antigen in HK sheep ——— (Schrager et al) (290) 186
- Erythrocyte

- Perturbation of ——— volume: Determination of membrane transport parameters for rapid penetrants (Farmer, Macey) (290) 290
- Erythrocyte ghosts
Effects of inclusion of Ca^{2+} , Mg^{2+} , EDTA or EGTA during the preparation of ——— by hypotonic haemolysis (Bramley, Coleman) (290) 219
- Erythrocyte haemolysis
——— catalyzed by a factor from rabbit red cells I Some general properties of the haemolytic system (Miller) (290) 229
- Erythrocyte membranes
Kinetics of (Na^+ , K^+)-ATPase of human ——— II Inhibition by ouabain (Wolf, Peter) (290) 310
- Erythrocyte membranes
Kinetics of (Na^+ , K^+)-ATPase of human ——— I Activation by Na^+ and K^+ (Peter, Wolf) (290) 300
- Fatty acids
Mechanism of inhibition of anaerobic phosphate uptake by ——— in yeast (Borst-Pauwels, Dobbelman) (290) 348
- Filipin
Studies on the biological properties of polyene antibiotics Comparison of other polyenes with filipin in their ability to interact specifically with sterol (Norman et al) (290) 1
- Glomerular basement membrane
Separation of ——— substances by sodium dodecylsulfate disc gel electrophoresis and gel filtration (Myers, Bartlett) (290) 150
- D-Glucose
N-Ethylmaleimide labeling of a phlorizin-sensitive ——— binding site of brush border membrane from the rat kidney (Thomas et al) (290) 125
- Glucose leakage
Specific interaction of central nervous system myelin basic protein with lipids Effects of basic protein on ——— from liposomes (Gould, London) (290) 200
- Glycerol
Selected lipid monolayers on aqueous- ——— and aqueous-urea substrates (Cadenhead, Bean) (290) 43
- Haemocytes
Bursicon Its effect on tyrosine permeation into insect ——— (Post) (290) 424
- HeLa cells
Membrane changes in ——— with cortisol (Tu et al.) (290) 92
- Insulin
——— binding to plasma membranes (Robinson, Jr, et al) (290) 84
- Iodination
Internal localization of *Micrococcus lysodeikticus* membrane ATPase by ——— with ^{125}I (Salton et al) (290) 408
- Lecithin
Differences between conformations of ——— and phosphatidylethanolamine polar groups and their effects on interactions of phospholipid bilayer membranes (Phillips et al) (290) 402
- Lecithin-cholesterol mixtures
Laser-Raman spectroscopic study of egg lecithin and egg ——— (Mendelsohn) (290) 15
- Lipid
Phase changes in the ——— moieties of sarcoplasmic reticulum membranes induced by temperature and protein conformational changes (Electr, Inesi) (290) 178
- Lipids
Specific interaction of central nervous system myelin basic protein with ——— Effects of basic protein on glucose leakage from liposomes (Gould, London) (290) 200
- Lipid membranes
Anion diffusion across artificial ——— The effects of lysozyme on anion diffusion from phospholipid liposomes (Kaplan) (290) 339
- Lipid monolayers
Selected ——— on aqueous-glycerol and aqueous-urea substrates (Cadenhead, Bean) (290) 43
- Liposomes
Anion diffusion across artificial lipid membranes The effects of lysozyme on anion diffusion from phospholipid ——— (Kaplan) (290) 339
- Liposomes
Simple method of determining relative permeabilities of ——— to non-electrolytes (Hill, Cohen) (290) 403
- Lysozyme
Anion diffusion across artificial lipid membranes. The effects of ——— on anion diffusion from phospholipid liposomes (Kaplan) (290) 339
- Magnesium ions
Effects of inclusion of Ca^{2+} , ———, EDTA or EGTA during the preparation of erythrocyte ghosts by hypotonic haemolysis (Bramley et al) (290) 219
- Membrane
Calcium binding to the rat liver plasma ——— (Shlatz, Marinetti) (290) 70
- Membrane
——— changes in HeLa cells with cortisol (Tu et al) (290) 92
- Membranes
Cooperative character of phenylalanine binding by a protein fraction isolated from baker's yeast (Voříšek) (290) 256
- Membranes
Differences between conformations of lecithin and phosphatidylethanolamine polar groups and their effects on interactions of phospholipid bilayer ——— (Phillips et al) (290) 402
- Membranes
Epithelial basement ———: The isolation and identification of a soluble component (Johnson, Starcher) (290) 158

- Membrane
N-Ethylmaleimide labeling of a phlorizin-sensitive D-glucose binding site of brush border ——— from the rat kidney (Thomas et al) (290) 125
- Membranes
Hydrolysis of alanine oligopeptides by an enzyme located in the ——— of Mycoplasma laidlawii (Pecht et al) (290) 267
- Membranes
Inhibition of [^3H]phlorizin binding to isolated kidney brush border ——— by phlorizin-like compounds (Bode et al) (290) 134
- Membrane
Insulin binding to plasma ——— (Robinson, Jr, et al) (290) 84
- Membranes
Kinetics of (Na^+ , K^+)-ATPase of human erythrocyte ——— I Activation by Na^+ and K^+ (Peter, Wolf) (290) 300
- Membranes
Kinetics of (Na^+ , K^+)-ATPase of human erythrocyte ——— II. Inhibition by ouabain (Wolf, Peter) (290) 310
- Membrane
Perturbation of erythrocyte volume: Determination of ——— transport parameters for rapid penetrants (Farmer, Macey) (290) 290
- Membranes
Phase changes in the lipid moieties of sarcoplasmic reticulum ——— induced by temperature and protein conformational changes (Eletr, Inesi) (290) 178
- Membranes
Role of phosphatidylserine in the hormonal control of adenylate cyclase of rat liver plasma ——— (Rethy et al) (290) 58
- Membrane
Separation of glomerular basement ——— substances by sodium dodecylsulfate disc gel electrophoresis and gel filtration (Myers, Bartlett) (290) 150
- Membrane
Tetraethylammonium ion inhibition of potassium conductance of the nodal ——— (Mozhayeva, Naumov) (290) 248
- Membrane proteins
Isolation and characterization of an Escherichia coli mutant with alteration in the outer ——— of the cell envelope (Wu) (290) 274
- Membrane protein antigen
Biochemical characterization of a lipid-dependent ——— in HK sheep red cells (Shrager et al) (290) 186
- Micelle
Two-step interfacial barrier mechanism for the transport of ——— solubilized solute across an oil-water interface (Surpuria, Higuchi) (290) 375
- Micrococcus lysodeikticus
Internal localization of ——— membrane ATPase by iodination with ^{125}I (Salton et al) (290) 408
- Multibilayers
Steroid-phosphatidylcholine interactions in oriented ——— — A spin label study (Hsia et al) (290) 22
- Mycoplasma laidlawii
Hydrolysis of alanine oligopeptides by an enzyme located in the membrane of ——— (Pecht et al) (290) 267
- Myelin basic protein
Specific interaction of central nervous system ——— with lipids: Effects of basic protein on glucose leakage from liposomes (Gould, London) (290) 200
- Nonelectrolyte permeability
Control of ——— in red cells (Owen, Solomon) (290) 414
- Oil-water interface
Two-step interfacial barrier mechanism for the transport of micelle-solubilized solute across an ——— (Surpuria, Higuchi) (290) 375
- [^3H]Ouabain
—— binding to a hydrophobic protein from electroplax membranes (Rivas et al.) (290) 419
- Ouabain
Kinetics of (Na^+ , K^+)-ATPase of human erythrocyte membranes II Inhibition by ——— (Wolf, Peter) (290) 310
- Phenylalanine binding
Cooperative character of ——— by a protein fraction isolated from baker's yeast membranes (Vofšek) (290) 256
- Phlorizin
N-Ethylmaleimide labeling of a ——— -sensitive D-glucose binding site of brush border membrane from the rat kidney (Thomas et al) (290) 125
- Phlorizin
Inhibition of [^3H] ——— binding to isolated kidney brush border membranes by phlorizin-like compounds (Bode et al) (290) 134
- Phosphate uptake
Mechanism of inhibition of anaerobic ——— by fatty acids in yeast (Borst-Pauwels, Dobbelman) (290) 348
- Phosphatidylcholine bilayers
Effect of cholesterol and water on the rigidity and order of ——— (Boggs, Hsia) (290) 32
- Phosphatidylcholine-steroid interactions
—— in oriented multibilayers — A spin label study (Hsia et al) (290) 22
- Phosphatidylethanolamine
Differences between conformations of lecithin and ——— polar groups and their effects on interactions of phospholipid bilayer membranes (Phillips et al) (290) 402
- Phosphatidylserine
Role of ——— in the hormonal control of adenylate cyclase of rat liver plasma membranes (Rethy et al) (290) 58

Phospholipid liposomes

Anion diffusion across artificial lipid membranes The effects of lysozyme on anion diffusion from ——— (Kaplan) (290) 339

Plasma membrane

Calcium binding to the rat liver ——— (Shlatz, Marinetti) (290) 70

Plasma membrane

Insulin binding to ——— (Robinson, Jr, al) (290) 84

Plasma membranes

Role of phosphatidylserine in the hormonal control of adenylate cyclase of rat liver ——— (Rethy et al) (290) 58

Polyene antibiotics

Studies on the biological properties of ——— Comparison of other polyenes with filipin in their ability to interact specifically with sterol (Norman et al) (290) 1

Potassium

Interactions of ———, sodium and strophanthidin during active transport of Na^+ in frog muscle cells (Wu, Sjodin) (290) 327

Potassium

Tetraethylammonium ion inhibition ——— conductance of the nodal membrane (Mozhayeva, Naumov) (290) 248

Potassium ions

Kinetics of (Na^+ , K^+)-ATPase of human erythrocyte membranes I Activation by Na^+ and ——— (Peter, Wolf) (290) 300

Protein

Cooperative character of phenylalanine binding by a ——— fraction isolated from baker's yeast membrane (Voříšek) (260) 256

Proteins

Isolation and characterization of an *Escherichia coli* mutant with alteration in the outer membrane ——— of the cell envelope (Wu) (290) 274

Protein

Phase changes in the lipid moieties of sarcoplasmic reticulum membranes induced by temperature and ——— conformational changes (Eletr, Inesi) (290) 178

Red cells

Control of nonelectrolyte permeability in ——— (Owen, Solomon) (290) 414

Sarcoplasmic reticulum membranes

Phase changes in the lipid moieties of ——— induced by temperature and protein conformational changes (Eletr, Inesi) (290) 178

Sodium

Interactions of potassium, ——— and strophanthidin during active transport of Na^+ in frog muscle cells (Wu, Sjodin) (290) 327

Sodium ions

Kinetics of (Na^+ , K^+)-ATPase of human erythrocyte membranes I Activation by ——— and K^+ (Peter, Wolf) (290) 300

Sodium-potassium-stimulated ATPase

Kinetics of ——— of human erythrocyte

membranes I Activation by Na^+ and K^+ (Peter, Wolf) (290) 300

Sodium-potassium-stimulated ATPase

Kinetics of ——— of human erythrocyte membranes II Inhibition by ouabain (Wolf, Peter) (290) 310

Specific interaction of central nervous system myelin basic protein with lipids Effects of basic protein on glucose leakage from ——— (Gould, London) (290) 200

Spin label

Steroid-phosphatidylcholine interactions in oriented multibilayers — A ——— study (Hsia et al) (290) 22

Steroid-phosphatidylcholine interactions

—— in oriented multibilayers — A spin label study (Hsia et al) (290) 22

Sterol

Studies on the biological properties of polyene antibiotics Comparison of other polyenes with filipin in their ability to interact specifically with ——— (Norman et al) (290) 1

Strophanthidin

Interactions of potassium, sodium and ——— during active transport of Na^+ in frog muscle cells (Wu, Sjodin) (290) 327

Tetraethylammonium ion

—— inhibition of potassium conductance of the nodal membrane (Mozhayeva, Naumov) (290) 248

Transport

Evidence for specific ——— mechanisms for aromatic compounds in bacterium N C I B 8250 (Cook, Fewson) (290) 384

Transport

Interactions of potassium, sodium and strophanthidin during active ——— of Na^+ in frog muscle cells (Wu, Sjodin) (290) 327

Transport

Perturbation of erythrocyte volume Determination of membrane ——— parameters for rapid penetrants (Farmer, Macey) (290) 290

Transport

Two-step interfacial barrier mechanism for the ——— of micelle-solubilized solute across an oil-water interface (Surpuriya, Higuchi) (290) 375

Tyrosine

Bursicon Its effect on ——— permeation into insect haemocytes (Post) (290) 424

Urea

Selected lipid monolayers on aqueous-glycerol and aqueous- ——— substrates (Cadenhead, Bean) (290) 43

Yeast

Cooperative character of phenylalanine binding by a protein fraction isolated from baker's ——— membranes (Voříšek) (290) 256

Yeast

Mechanism of inhibition of anaerobic phosphate uptake by fatty acids in ——— (Borst-Pauwels, Dobbelman) (290) 348