

AUTHOR INDEX

- Ahkong, Q.F., see Smith, C.L. (692) 109
- Akamatsu, Y., see Nakano, A. (692) 177
- Akhrem, A.A., Andrianov, V.T., Bokut, S.B., Luka, Z.A., Kisel, M.A., Skornyakova, T.G. and Kisselev, P.A.
Thermotropic behaviour of phospholipid vesicles reconstituted with rat liver microsomal cytochrome *P*-450 (692) 287
- Andrianov, V.T., see Akhrem, A.A. (692) 287
- Arthus, M.F., Bergeron, M. and Scriver, C.R.
Topology of membrane exposure in the renal cortex slice. Studies of glutathione and maltose cleavage (692) 371
- Badger, C.R. and Helmkamp, G.M., Jr.
Modulation of phospholipid transfer protein activity. Inhibition by local anesthetics (692) 33
- Barisas, B.G., see Boullier, J.A. (692) 278
- Bayer, M.H.
Phospholipase A activity in commercial nucleases. Implications for membrane vesicle isolation (692) 498
- Benoliel, A.-M., see Gerson, D.F. (692) 147
- Bensen, J., see Yeagle, P.L. (692) 139
- Benz, R., see Schmidt, K. (692) 52
- Bereza, U.L., Brewer, G.J. and Mizukami, I.
Association of calmodulin inhibition, erythrocyte membrane stabilization and pharmacological effects of drugs (692) 305
- Bergeron, M., see Arthus, M.F. (692) 371
- Bierman, A., see Boonstra, J. (692) 321
- Bildstein, C.L., see Mamelok, R.D. (692) 115
- Blakeman, D.P., see Im, W.B. (692) 355
- Bokut, S.B., see Akhrem, A.A. (692) 287
- Bongrand, P., see Gerson, D.F. (692) 147
- Boni, L., see Yeagle, P.L. (692) 139
- Boni, L.T., see Epand, R.M. (692) 330
- Boonstra, J., Nelemans, S.A., Feijen, A., Bierman, A., Van Zoelen, E.J.J., Van der Saag, P.T. and De Laat, S.W.
Effect of fatty acids on plasma membrane lipid dynamics and cation permeability in neuroblastoma cells (692) 321
- Boullier, J.A., Melnykovich, G. and Barisas, B.G.
A photobleaching recovery study of glucocorticoid effects on lateral mobilities of a lipid analog in S3G HeLa cell membranes (692) 278
- Brewer, G.J., see Bereza, U.L. (692) 305
- Brown, D., see Sips, H.J. (692) 447
- Capo, C., see Gerson, D.F. (692) 147
- Charlemagne, D., see Geny, B. (692) 345
- Cheng, S.-Y., see Lai, C.-S. (692) 27
- Christianse, K., see Van den Broek, P.J.A. (692) 231
- Cooper, B.A. and Peyman, J.
Folic acid and its pentaglutamate leak from human erythrocyte ghosts but not from liposomes (692) 161
- Corcoran, S.M., see Hsu, B.Y.-L. (692) 41
- Cordes, K.A., see Rauenbuehler, P.B. (692) 361
- D'Agnolo, G., see Tomasi, M. (692) 339
- De Gier, J., see Van Echteld, C.J.A. (692) 126
- De Kruijff, B., see Van Echteld, C.J.A. (692) 126
- De Laat, S.W., see Boonstra, J. (692) 321
- De Lacey, E.H.B. and Wolfe, J.
Elastic response of bilayers with intrinsic proteins (692) 425
- Del Castillo, J.R., Marin, R., Proverbio, T. and Proverbio, F.
Partial characterization of the ouabain-insensitive, Na^+ -stimulated ATPase activity of kidney basal-lateral plasma membranes (692) 61
- Detrich, H.W., III, see Haschemeyer, A.E.V. (692) 489
- Dousset, J.-C., see Dousset, N. (692) 223
- Dousset, N., Lapchine, L., Dousset, J.-C. and Douste-Blazy, L.
Influence of dicarboxylic phosphatidylcholines on phosphatidylcholine liposomes as revealed by gel chromatography and electron microscopy (692) 223
- Doust-Blazy, L., see Dousset, N. (692) 223
- Dzandu, J.K., see Johnson, R.M. (692) 218
- Eckert, K. and Grosse, R.
Incorporation of Na^+ - Ca^{2+} antiporter and of $(\text{Na}^+ + \text{K}^+)\text{-ATPase}$ into liposomes and demonstration of their non-identity (692) 69
- Egan, W. and Leive, L.
 ^1H - ^{31}P nuclear magnetic double resonance study of *Escherichia coli* lipopolysaccharide mobility (692) 165
- Eilam, Y. and Grossowicz, N.
Nystatin effects on cellular calcium in *Saccharomyces cerevisiae* (692) 238
- Epand, R.M., Boni, L.T. and Hui, S.W.
Interaction of glucagon with sphingomyelins (692) 330
- Ermias, A., see Foussard-Guilbert, F. (692) 296
- Fajsz, C., see Maderspach, K. (692) 469
- Fedon, Y., see Geny, B. (692) 345
- Feijen, A., see Boonstra, J. (692) 321
- Fiorilli, A., see Venerando, B. (692) 18
- Fisher, D., see Smith, C.L. (692) 109
- Fonck, K., Scherphof, G.L. and Konings, A.W.T.
Control of fatty acid incorporation in membrane phospholipids. X-ray-induced changes in fatty acid uptake by tumor cells (692) 406

- Foussard-Guilbert, F., Ermias, A., Laget, P., Tanguy, G., Girault, M. and Jallet, P.
Detergent effects on kinetic properties of $(\text{Na}^+ + \text{K}^+)$ -ATPase from kidney membranes (692) 296
- Galla, H.J., see Ruppel, D. (692) 1
- Geny, B., Paraf, A., Fedon, Y. and Charlemagne, D.
Characterization of a β -actinin-like protein in purified non-muscle cell membranes. Its activity on $(\text{Na}^+ + \text{K}^+)$ -ATPase (692) 345
- Gerson, D.F., Capo, C., Benoliel, A.-M. and Bongrand, P.
Adhesion, phagocytosis and cell surface energy. The binding of fixed human erythrocytes to rat macrophages and polymethylpentene (692) 147
- Gibrat, R. and Grignon, C.
Effect of pH on the surface charge density of plant membranes. Comparison of microsomes and liposomes (692) 462
- Giordana, B., Sacchi, F.V. and Hanozet, G.M.
Intestinal amino acid absorption in lepidopteran larvae (692) 81
- Girault, M., see Foussard-Guilbert, F. (692) 296
- Gispen, W.H., see Hershkowitz, M. (692) 495
- Gomme, J., see Simonson, L.O. (692) 431
- Gonzalez-Mendez, R., Minton, K.W. and Hahn, G.M.
Lack of correlation between membrane lipid composition and thermotolerance in Chinese hamster ovary cells (692) 168
- Grignon, C., see Gibrat, R. (692) 462
- Grosse, R., see Eckert, K. (692) 69
- Grossowicz, N., see Eilam, Y. (692) 238
- Hahn, G.M., see Gonzalez-Mendez, R. (692) 168
- Hanozet, G.M., see Giordana, B. (692) 81
- Hansen, O.
Studies on ouabain-complexed $(\text{Na}^+ + \text{K}^+)$ -ATPase carried out with vanadate (692) 187
- Haschemeyer, A.E.V. and Detrich, H.W., III
Characteristics of leucine transport by isolated hepatocytes of Antarctic fish at low temperatures (692) 489
- Helmkamp, G.M., Jr., see Badger, C.R. (692) 33
- Hershkowitz, M., Zwiers, H. and Gispen, W.H.
The effect of ACTH on rat brain synaptic plasma membrane lipid fluidity (692) 495
- Hillyard, S.D., Zeiske, W. and Van Driessche, W.
A fluctuation analysis study of the development of amiloride-sensitive Na^+ transport in the skin of larval bullfrogs (*Rana catesbeiana*) (692) 455
- Hoekstra, D.
Kinetics of intermixing of lipids and mixing of aqueous contents during vesicle fusion (692) 171
- Hori, R., Takano, M., Okano, T., Kitazawa, S. and Inui, K.-I.
Mechanisms of *p*-aminohippurate transport by brush border and basolateral membrane vesicles isolated from rat kidney cortex (692) 97
- Hsu, B.Y.-L., Marshall, C.M., Corcoran, S.M. and Segal, S.
The effect of azaserine upon the proline and methyl α -D-glucoside transport systems of rat renal brush-border membranes (692) 41
- Hui, S.W., see Epand, R.M. (692) 330
- Hui, S.W., see Yeagle, P.L. (692) 139
- Im, W.B. and Blakeman, D.P.
Inhibition of gastric $(\text{H}^+ + \text{K}^+)$ -ATPase by unsaturated long-chain fatty acids (692) 355
- Inui, K.-I., see Hori, R. (692) 97
- Jallet, P., see Foussard-Guilbert, F. (692) 296
- Johnson, R.M. and Dzandu, J.K.
Calcium and ionophore A23187 induce the sickle cell membrane phosphorylation pattern in normal erythrocytes (692) 218
- Kapitza, H.-G., see Ruppel, D. (692) 1
- Kasai, M., see Yamamoto, N. (692) 89
- Khare, S., see Trivedi, A. (692) 202
- Kinne, R., see Lin, J.T. (692) 210
- Kinsel, J.F., Melnik, E.I., Sternson, L.A., Lindenbaum, S. and Ovchinnikov, Yu.A.
The effect of amine structure on complexation with lasalocid in model membrane systems. II. Ionophore selectivity for amines in lipid bilayers and at oil/water interfaces (692) 377
- Kissel, M.A., see Akhrem, A.A. (692) 287
- Kisselev, P.A., see Akhrem, A.A. (692) 287
- Kitazawa, S., see Hori, R. (692) 97
- Konings, A.W.T., see Fonck, K. (692) 406
- Kreutz, W., see Welte, W. (692) 479
- Kumari, S.N., Ranadive, G.N. and Lala, A.K.
Growth of a yeast mutant on ring A modified cholesterol derivatives (692) 441
- Laget, P., see Foussard-Guilbert, F. (692) 296
- Lai, C.-S. and Cheng, S.-Y.
Rotational and lateral diffusions of L-thyroxine in phospholipid bilayers (692) 27
- Lala, A.K., see Kumari, S.N. (692) 441
- Lapchine, L., see Dousset, N. (692) 223
- Lasić, D.D.
A molecular model for vesicle formation (692) 501
- Leive, L., see Egan, W. (692) 165
- Leunissen-Bijvelt, J., see Van Echteld, C.J.A. (692) 126
- Lew, V.L., see Simonson, L.O. (692) 431
- Lin, J.T., Stroh, A. and Kinne, R.
Renal sodium-D-glucose cotransport system. Involvement of tyrosine residues in sodium-transporter interaction (692) 210
- Lindenbaum, S., see Kinsel, J.F. (692) 377
- Liu, D., see Mamelok, R.D. (692) 115
- Lucy, J.A., see Smith, C.L. (692) 109
- Luka, Z.A., see Akhrem, A.A. (692) 287
- Luthra, M.G.
Trifluoperazine inhibition of calmodulin-sensitive Ca^{2+} -ATPase and calmodulin-insensitive $(\text{Na}^+ + \text{K}^+)$ - and Mg^{2+} -ATPase activities of human and rat red blood cells (692) 271
- MacDonald, R.C., see Oku, N. (692) 384

- Maderspach, K. and Fajsi, C.
 β -Adrenergic receptors of brain cells. Membrane integrity implies apparent positive cooperativity and higher affinity (692) 469
- Maeda, M., see Nakano, A. (692) 177
- Mamelok, R.D., Tse, S.S., Newcomb, K., Bildstein, C.L. and Liu, D.
 Basal-lateral membranes from rabbit renal cortex prepared on a large scale in a zonal rotor (692) 115
- Mann, G.E., Tradatti, C.E. and Yudilevich, D.L.
 Unidirectional uptake of L-alanine and L-serine by system ASC in the basolateral membrane of salivary epithelium. Selective inhibition of rapid alanine metabolism by aminooxyacetate (692) 157
- Marin, R., see Del Castillo, J.R. (692) 61
- Marshall, C.M., see Hsu, B.Y.-L. (692) 41
- Melnik, E.I., see Kinsel, J.F. (692) 377
- Melnykovich, G., see Boullier, J.A. (692) 278
- Minton, K.W., see Gonzalez-Mendez, R. (692) 168
- Mizukami, I., see Bereza, U.L. (692) 305
- Montecucco, C., see Tomasi, M. (692) 339
- Moras, T.S., see Morgan, C.G. (692) 196
- Morgan, C.G., Thomas, E.W., Moras, T.S. and Yianni, Y.P.
 The use of a phospholipid analogue of diphenyl-1,3,5-hexatriene to study melittin-induced fusion of small unilamellar phospholipid vesicles (692) 196
- Munn, M.W. and Parce, J.W.
 Antibody-dependent phagocytosis of haptenated liposomes by human neutrophils is dependent on the physical state of the liposomal membrane (692) 101
- Nakajima, M., see Suzuki, S. (692) 263
- Nakamura, T., Tokuda, H. and Unemoto, T.
 Effects of pH and monovalent cations on the potassium ion exit from the marine bacterium, *Vibrio alginolyticus*, and the manipulation of cellular cation contents (692) 389
- Nakano, A., Maeda, M., Nishijima, M. and Akamatsu, Y.
 Phospholipid modification retards intracellular transport and secretion of immunoglobulin G1 by mouse MOPC-31C plasmacytoma cells (692) 177
- Nelemans, S.A., see Boonstra, J. (692) 321
- Newcomb, K., see Mamelok, R.D. (692) 115
- Nishijima, M., see Nakano, A. (692) 177
- Okano, T., see Hori, R. (692) 97
- Oku, N., Scheerer, J.F. and MacDonald, R.C.
 Preparation of giant liposomes (692) 384
- Ong, R.L. and Prestegard, J.H.
 High-resolution ^{13}C nuclear magnetic resonance studies of small unilamellar vesicles containing glycophorin A (692) 252
- Oonk, R., see Sips, H.J. (692) 447
- Orci, L., see Sips, H.J. (692) 447
- Osawa, T., see Suzuki, S. (692) 263
- Ovchinnikov, Yu.A., see Kinsel, J.F. (692) 377
- Paraf, A., see Geny, B. (692) 345
- Parce, J.W., see Munn, M.W. (692) 101
- Peyman, J., see Cooper, B.A. (692) 161
- Prasad, R., see Trivedi, A. (692) 202
- Prestegard, J.H., see Ong, R.L. (692) 252
- Proverbio, F., see Del Castillo, J.R. (692) 61
- Proverbio, T., see Del Castillo, J.R. (692) 61
- Ranadive, G.N., see Kumari, S.N. (692) 441
- Rauenbuehler, P.B., Cordes, K.A. and Salhany, J.M.
 Identification of the hemoglobin binding sites on the inner surface of the erythrocyte membrane (692) 361
- Roberti, S., see Venerando, B. (692) 18
- Rüppel, D., Kapitza, H.-G., Galla, H.J., Sixl, F. and Sackmann, E.
 On the microstructure and phase diagram of dimyristoylphosphatidylcholine-glycophorin bilayers. The role of defects and the hydrophilic lipid-protein interaction (692) 1
- Sacchi, F.V., see Giordana, B. (692) 81
- Sackmann, E., see Rüppel, D. (692) 1
- Salhany, J.M., see Rauenbuehler, P.B. (692) 361
- Scheerer, J.F., see Oku, N. (692) 384
- Scherphof, G.L., see Fonck, K. (692) 406
- Schmidt, K. and Benz, R.
 Changes of membrane conductance and permeability by constituents of normal and burned skin (692) 52
- Scriver, C.R., see Arthus, M.F. (692) 371
- Segal, S., see Hsu, B.Y.-L. (692) 41
- Simonson, L.O., Gomme, J. and Lew, V.L.
 Uniform ionophore A23187 distribution and cytoplasmic calcium buffering in intact human red cells (692) 431
- Singhal, G.S., see Trivedi, A. (692) 202
- Sips, H.J., Brown, D., Oonk, R. and Orci, L.
 Orientation of rat-liver plasma membrane vesicles. A biochemical and ultrastructural study (692) 447
- Sixl, F., see Rüppel, D. (692) 1
- Skornyakova, T.G., see Akhrem, A.A. (692) 287
- Slee, A.M. and Tanzer, J.M.
 Sucrose transport by *Streptococcus mutans*. Evidence for multiple transport systems (692) 415
- Smith, C.L., Ahkong, Q.F., Fisher, D. and Lucy, J.A.
 Is purified poly(ethylene glycol) able to induce cell fusion? (692) 109
- Sonnino, S., see Venerando, B. (692) 18
- Sternson, L.A., see Kinsel, J.F. (692) 377
- Stroh, A., see Lin, J.T. (692) 210
- Surewicz, W.K.
 Quinidine is a strong perturber of acidic phospholipid bilayer order and fluidity (692) 315
- Suzuki, K., see Suzuki, S. (692) 263
- Suzuki, S., Suzuki, K., Nakajima, M., Terao, T. and Osawa, T.
 Studies on endogenous phosphorylation of chicken erythrocyte membranes. Calcium-dependent phosphorylation of specific proteins (692) 263
- Takano, M., see Hori, R. (692) 97
- Tanguy, G., see Foussard-Guilbert, F. (692) 296
- Tanzer, J.M., see Slee, A.M. (692) 415

- Terao, T., see Suzuki, S. (692) 263
- Tettamanti, G., see Venerando, B. (692) 18
- Thomas, E.W., see Morgan, C.G. (692) 196
- Tokuda, H., see Nakamura, T. (692) 389
- Tomasi, M., D'Agnolo, G. and Montecucco, C.
Micellar gangliosides mediate the lipid insertion of cholera toxin protomer A (692) 339
- Tradatti, C.E., see Mann, G.E. (692) 157
- Trivedi, A., Khare, S., Singhal, G.S. and Prasad, R.
Effect of phosphatidylcholine and phosphatidylethanolamine enrichment on the structure and function of yeast membrane (692) 202
- Tse, S.S., see Mamelok, R.D. (692) 115
- Unemoto, T., see Nakamura, T. (692) 389
- Van den Broek, P.J.A., Christianse, K. and Van Steveninck, J.
The energetics of D-fucose transport in *Saccharomyces fragilis*. The influence of the protonmotive force on sugar accumulation (692) 231
- Van der Saag, P.T., see Boonstra, J. (692) 321
- Van Driessche, W., see Hillyard, S.D. (692) 455
- Van Echteld, C.J.A., De Kruijff, B., Verkleij, A.J., Leunissen-Bijvelt, J. and De Gier, J.
Gramicidin induces the formation of non-bilayer structures in phosphatidylcholine dispersions in a fatty acid chain length dependent way (692) 126
- Van Steveninck, J., see Van den Broek, P.J.A. (692) 231
- Van Venetië, R. and Verkleij, A.J.
Possible role of non-bilayer lipids in the structure of mitochondria. A freeze-fracture electron microscopy study (692) 397
- Van Zoelen, E.J.J., see Boonstra, J. (692) 321
- Venerando, B., Roberti, S., Sonnino, S., Fiorilli, A. and Tettamanti, G.
Interactions of ganglioside G_{M1} with human and fetal calf sera. Formation of ganglioside-serum albumin complexes (692) 18
- Verkleij, A.J., see Van Echteld, C.J.A. (692) 126
- Verkleij, A.J., see Van Venetië, R. (692) 397
- Visser, A.J.W.G.
Limited rotational motion of amphiphilic flavins in dipalmitoylphosphatidylcholine vesicles (692) 244
- Welte, W. and Kreutz, W.
Formation, structure and composition of a planar hexagonal lattice composed of specific protein-lipid complexes in the thylakoid membranes of *Rhodospseudomonas viridis* (692) 479
- Wolfé, J., see De Lacey, E.H.B. (692) 425
- Yamamoto, N. and Kasai, M.
Inhibition of a voltage-dependent cation channel in sarcoplasmic reticulum vesicles by caesium studied by using a potential-sensitive cyanine dye (692) 89
- Yeagle, P.L., Bensen, J., Boni, L. and Hui, S.W.
Molecular packing of cholesterol in phospholipid vesicles as probed by dehydroergosterol (692) 139
- Yianni, Y.P., see Morgan, C.G. (692) 196
- Yudilevich, D.L., see Mann, G.E. (692) 157
- Zeiske, W., see Hillyard, S.D. (692) 455
- Zwiers, H., see Hershkowitz, M. (692) 495