

AUTHOR INDEX

- Aaronson, L.R. and Martin, C.E.
Temperature-induced modifications of glycosphingolipids in plasma membranes of *Neurospora crassa* (735) 252
- Akutsu, H., see Yoshikawa, W. (735) 397
- Aragon, I., see Le Doan, T. (735) 259
- Bellion, E. and Lash, T.D.
Transport of 2-methyl-4-amino-5-hydroxymethylpyrimidine by *Salmonella typhimurium* (735) 337
- Bellion, E., Lash, T.D. and McKellar, B.R.
Transport of thiamine and 4-methyl-5-hydroxyethylthiazole by *Salmonella typhimurium* (735) 331
- Bentz, J., see Nir, S. (735) 160
- Benz, R., see Hancock, R.E.W. (735) 137
- Berry, C., see Burchell, B. (735) 309
- Biber, J., Brown, C.D.A. and Murer, H.
Sodium-dependent transport of phosphate in LLC-PK₁ cells (735) 325
- Biber, J., Rechkemmer, G., Bodmer, M., Schröder, P., Haase, W. and Murer, H.
Isolation of basolateral membranes from columnar cells of the proximal colon of the guinea pig (735) 1
- Bodmer, M., see Biber, J. (735) 1
- Boegheim, J.P.J., Jr., Van Linde, M., Op den Kamp, J.A.F. and Roelofs, B.
The sphingomyelin pools in the outer and inner layer of the human erythrocyte membrane are composed of different molecular species (735) 438
- Borle, F. and Seelig, J.
Hydration of *Escherichia coli* lipids. Deuterium T_1 relaxation time studies of phosphatidylglycerol, phosphatidylethanolamine and phosphatidylcholine (735) 131
- Bothorel, P., see Kreissler, M. (735) 12
- Bothorel, P., see Kreissler, M. (735) 23
- Boudet, G., see Le Doan, T. (735) 259
- Boumendil-Podevin, E.F. and Podevin, R.A.
Isolation of basolateral and brush-border membranes from the rabbit kidney cortex. Vesicle integrity and membrane sidedness of the basolateral fraction (735) 86
- Brown, C.D.A., see Biber, J. (735) 325
- Brunner, J., see Jørgensen, P.L. (735) 291
- Burchell, B., Weatherill, P.J. and Berry, C.
Evidence indicating that UDP-*N*-acetylglucosamine does not appear to stimulate hepatic microsomal UDP-glucuronosyltransferase by interaction with the catalytic unit of the enzyme (735) 309
- Carlsen, J., see Christiansen, K. (735) 225
- Casal, H.L. and Mantsch, H.H.
The thermotropic phase behavior of *N*-methylated dipalmitoylphosphatidylethanolamines (735) 387
- Cho, B.-H. and Komor, H.
Mechanism of proline uptake by *Chlorella vulgaris* (735) 361
- Christiansen, K. and Carlsen, J.
Reconstitution of a protein into lipid vesicles using natural detergents (735) 225
- Corcoran, S.M., see Hsu, B.Y.-L. (735) 40
- Cranney, M., Cundall, R.B., Jones, G.R., Richards, J.T. and Thomas, E.W.
Fluorescence lifetime and quenching studies on some interesting diphenylhexatriene membrane probes (735) 418
- Cundall, R.B., see Cranney, M. (735) 418
- De Rosa, M., see Gliozzi, A. (735) 234
- Dilger, J.P., see Elliott, J.R. (735) 95
- Dinda, M., see Young, M. (735) 429
- Dufourc, E.J., see Kelusky, E.C. (735) 302
- Düzgüneş, N., see Nir, S. (735) 160
- Düzgüneş, N., see Rosenberg, J. (735) 173
- Ehrenberg, A., see Ehrström, M. (735) 271
- Ehrström, M. and Ehrenberg, A.
Thermal effects on motion and orientation of the cholestane spin label in planar multibilayers of dimyristoylphosphatidylcholine and dipalmitoylphosphatidylcholine (735) 271
- Elliott, J.R., Needham, D., Dilger, J.P. and Haydon, D.A.
The effects of bilayer thickness and tension on gramicidin single-channel lifetime (735) 95
- Gambacorta, A., see Gliozzi, A. (735) 234
- Gimple, M., see Hancock, R.E.W. (735) 137
- Gliozzi, A., Paoli, G., De Rosa, M. and Gambacorta, A.
Effect of isoprenoid cyclization on the transition temperature of lipids in thermophilic archaeobacteria (735) 234
- Gutknecht, J.
Cadmium and thallous ion permeabilities through lipid bilayer membranes (735) 185
- Haase, W., see Biber, J. (735) 1
- Hancock, R.E.W., Poole, K., Gimple, M. and Benz, R.
Modification of the conductance, selectivity and concentration-dependent saturation of *Pseudomonas aeruginosa* protein P channels by chemical acetylation (735) 137
- Haydon, D.A., see Elliott, J.R. (735) 95
- Hélène, C., see Le Doan, T. (735) 259
- Henderson, G.B. and Montague-Wilkie, B.
Irreversible inhibitors of methotrexate transport in L1210

- cells. Characteristics of inhibition by an *N*-hydroxysuccinimide ester of methotrexate (735) 123
- Höfer, M., Huh, H. and Künemund, A.
Membrane potential and cation permeability. A study with a nystatin-resistant mutant of *Rhodotorula gracilis* (*Rhodospiridium toruloides*) (735) 211
- Höfer, M., see Künemund, A. (735) 203
- Hosein, E.A., see Rovinski, B. (735) 407
- Hsu, B.Y.-L., Corcoran, S.M., Marshall, C.M. and Segal, S.
The effect of papain upon proline and sodium transport of rat renal brush-border membrane vesicles (735) 40
- Huh, H., see Höfer, M. (735) 211
- Ikeda, T., Tazuke, S. and Watanabe, M.
Interaction of biologically active molecules with phospholipid membranes. I. Fluorescence depolarization studies on the effect of polymeric biocide bearing biguanide groups in the main chain (735) 380
- Imaizumi, K., see Maeda, N. (735) 104
- Jähnig, F., see Obladen, M. (735) 215
- Jaiswal, R.K., Landon, E.J. and Sastry, B.V.R.
Methylation of phospholipids in microsomes of the rat aorta (735) 367
- Jansons, V.K. and Panzner, E.A.
Liposomes as a means to introduce fragment A of diphtheria toxin into cells (735) 433
- Jones, G.R., see Cranney, M. (735) 418
- Jørgensen, P.L. and Brunner, J.
Labeling of intramembrane segments of the α -subunit and β -subunit of pure membrane-bound ($\text{Na}^+ + \text{K}^+$)-ATPase with 3-trifluoromethyl-3-(*m*-[^{125}I]iodophenyl)diazirine (735) 291
- Kawamura, Y., see Sakurai, I. (735) 189
- Kayalar, C., see Rosenberg, J. (735) 173
- Kelusky, E.C., Dufourc, E.J. and Smith, I.C.P.
Direct observation of molecular ordering of cholesterol in human erythrocyte membranes (735) 302
- Kljukin, L.M., see Margolis, L.B. (735) 193
- Komor, H., see Cho, B.-H. (735) 361
- Kon, K., see Maeda, N. (735) 104
- Krämer, R.
Interaction of membrane surface charges with the reconstituted ADP/ATP-carrier from mitochondria (735) 145
- Krause, W., see Kühn, H. (735) 283
- Kreissler, M., Lemaire, B. and Bothorel, P.
Theoretical conformational analysis of phospholipids. I. Study of the interactions between phospholipid molecules by use of semi-empirical methods with the explicit introduction of polar headgroup interactions (735) 12
- Kreissler, M., Lemaire, B. and Bothorel, P.
Theoretical conformational analysis of phospholipids. II. Role of hydration in the gel to liquid crystal transition of phospholipids (735) 23
- Kühn, H., Pliquett, F., Wunderlich, S., Schewe, T. and Krause, W.
Reticulocyte lipooxygenase changes the passive electrical properties of bovine heart submitochondrial particles (735) 283
- Künemund, A. and Höfer, M.
Passive fluxes of K^+ and H^+ in wild strain and nystatin-resistant mutant of *Rhodotorula gracilis* (ATCC 26194) (735) 203
- Künemund, A., see Höfer, M. (735) 211
- Kyogoku, Y., see Yoshikawa, W. (735) 397
- Landon, E.J., see Jaiswal, R.K. (735) 367
- Lash, T.D., see Bellion, E. (735) 331
- Lash, T.D., see Bellion, E. (735) 337
- Le Doan, T., Takasugi, M., Aragon, I., Boudet, G., Montenay-Garestier, T. and Hélène, C.
Excitation energy transfer from tryptophan residues of peptides and intrinsic proteins to diphenylhexatriene in phospholipid vesicles and biological membranes (735) 259
- Lemaire, B., see Kreissler, M. (735) 12
- Lemaire, B., see Kreissler, M. (735) 23
- Lewis, R.N.A.H. and McElhaney, R.N.
Purification and characterization of the membrane ($\text{Na}^+ + \text{Mg}^{2+}$)-ATPase from *Acholeplasma laidlawii* B (735) 113
- Limas, C., see Limas, C.J. (735) 181
- Limas, C.J. and Limas, C.
Involvement of microtubules in the isoproterenol-induced 'down'-regulation of myocardial β -adrenergic receptors (735) 181
- McDonald, R.C., see MacDonald, R.I. (735) 243
- MacDonald, R.I. and MacDonald, R.C.
Lipid mixing during freeze-thawing of liposomal membranes as monitored by fluorescence energy transfer (735) 243
- Maeda, N., Kon, K., Imaizumi, K., Sekiya, M. and Shiga, T.
Alteration of rheological properties of human erythrocytes by crosslinking of membrane proteins (735) 104
- Malathi, P. and Preiser, H.
Isolation of the sodium-dependent D-glucose transport protein from brush-border membranes (735) 314
- Mantsch, H.H., see Casal, H.L. (735) 387
- Margolis, L.B., Namiot, V.A. and Kljukin, L.M.
Magnetoliposomes. Another principle of cell sorting (735) 193
- Marshall, C.M., see Hsu, B.Y.-L. (735) 40
- Martin, C.E., see Aaronson, L.R. (735) 252
- McConnell, H.M., see Petty, H.R. (735) 77
- McElhaney, R.N., see Lewis, R.N.A.H. (735) 113
- McKellar, B.R., see Bellion, E. (735) 331
- Menestrina, G.
Effects of terbium on the hemocyanin pore formation rate in phosphatidylcholine planar bilayers (735) 297
- Mohri, T., see Takadera, T. (735) 197
- Montague-Wilkie, B., see Henderson, G.B. (735) 123
- Montenay-Garestier, T., see Le Doan, T. (735) 259
- Murer, H., see Biber, J. (735) 325
- Murer, H., see Haase, W. (735) 1
- Namiot, V.A., see Margolis, L.B. (735) 193
- Narayanan, N., Newland, M. and Neudorf, D.
Inhibition of sarcoplasmic reticulum calcium pump by cytosolic protein(s) endogenous to heart and slow skeletal muscle but not fast skeletal muscle (735) 53

- Needham, D., see Elliott, J.R. (735) 95
- Neudorf, D., see Narayanan, N. (735) 53
- Newland, M., see Narayanan, N. (735) 53
- Nir, S., Düzgüneş, N. and Bentz, J.
Binding of monovalent cations to phosphatidylserine and modulation of Ca^{2+} - and Mg^{2+} -induced vesicle fusion (735) 160
- Obladen, M., Popp, D., Schöll, C., Schwarz, H. and Jähnig, F.
Studies on lung surfactant replacement in respiratory distress syndrome. Rapid film formation from binary mixed liposomes (735) 215
- Op den Kamp, J.A.F., see Boegheim, J.P.J., Jr., (735) 438
- Pall, M.L., see Sanders, D. (735) 67
- Panzner, E.A., see Jansons, V.K. (735) 433
- Paoli, G., see Gliozzi, A. (735) 234
- Petty, H.R. and McConnell, H.M.
Cytochemical study of liposome and lipid vesicle phagocytosis (735) 77
- Pliquett, F., see Kühn, H. (735) 283
- Podevin, R.A., see Boumendil-Podevin, E.F. (735) 86
- Poole, K., see Hancock, R.E.W. (735) 137
- Popp, D., see Obladen, M. (735) 215
- Preiser, H., see Malathi, P. (735) 314
- Rechkemmer, G., see Biber, J. (735) 1
- Richards, J.T., see Cranney, M. (735) 418
- Roelofsen, B., see Boegheim, J.P.J., Jr. (735) 438
- Rosenberg, J., Düzgüneş, N. and Kayalar, C.
Comparison of two liposome fusion assays monitoring the intermixing of aqueous contents and of membrane components (735) 173
- Rovinski, B. and Hosein, E.A.
Adaptive changes in lipid composition of rat liver plasma membrane during postnatal development following maternal ethanol ingestion (735) 407
- Ruocco, M.J. and Shipley, G.G.
Hydration of *N*-palmitoylgalactosylsphingosine compared to monosaccharide hydration (735) 305
- Sakurai, I. and Kawamura, Y.
Magnetic-field-induced orientation and bending of the myelin figures of phosphatidylcholine (735) 189
- Sanders, D., Slayman, C.L. and Pall, M.L.
Stoichiometry of H^+ /amino acid cotransport in *Neurospora crassa* revealed by current-voltage analysis (735) 67
- Sastry, B.V.R., see Jaiswal, R.K. (735) 367
- Schewe, T., see Kühn, H. (735) 283
- Schöll, C., see Obladen, M. (735) 215
- Schröder, P., see Biber, J. (735) 1
- Schwarz, H., see Obladen, M. (735) 215
- Seelig, J., see Borle, F. (735) 131
- Segal, S., see Hsu, B.Y.-L. (735) 40
- Sekiya, M., see Maeda, N. (735) 104
- Shiga, T., see Maeda, N. (735) 104
- Shipley, G.G., see Ruocco, M.J. (735) 305
- Singer, M., see Young, M. (735) 429
- Slayman, C.L., see Sanders, D. (735) 67
- Smith, I.C.P., see Kelusky, E.C. (735) 302
- Sowers, A.E.
Fusion of mitochondrial inner membranes by electric fields produces inside-out vesicles. Visualization by freeze-fracture electron microscopy (735) 426
- Stankowski, S.
Large-ligand adsorption to membranes. I. Linear ligands as a limiting case (735) 341
- Stankowski, S.
Large-ligand adsorption in membranes. II. Disk-like ligands and shape-dependence at low saturation (735) 352
- Takadera, T. and Mohri, T.
Effect of *N*-ethylmaleimide on leucine transport in the Chang liver cell. II. Effect on the kinetics of the Na^+ -independent transport (735) 197
- Takasugi, M., see Le Doan, T. (735) 259
- Tazuke, S., see Ikeda, T. (735) 380
- Thomas, E.W., see Cranney, M. (735) 418
- Van Linde, M., see Boegheim, J.P.J., Jr. (735) 438
- Villegas, L.
Non-electrolyte diffusion across the frog gastric mucosa under osmotic gradients (735) 35
- Watanabe, M., see Ikeda, T. (735) 380
- Weatherill, P.J., see Burchell, B. (735) 309
- Wunderlich, S., see Kühn, H. (735) 283
- Yoshikawa, W., Akutsu, H. and Kyogoku, Y.
Light-scattering properties of osmotically active liposomes (735) 397
- Young, M., Dinda, M. and Singer, M.
Effect of Tween 80 on lipid vesicle permeability (735) 429