

AUTHOR INDEX

- Åkerman, K.E.O., Widström, M.K.F. and Saris, N.-E.
Effect of inhibitors on the sigmoidivity of the calcium ion transport kinetics in rat liver mitochondria (464) 287
- Alon, N., see Riordan, J.R. (464) 547
- Anstee, D.J., see Bachi, T. (464) 635
- Bachi, T., Whiting, K., Tanner, M.J.A., Metaxas, M.N. and Anstee, D.J.
Freeze-fracture electron microscopy of human erythrocytes lacking the major membrane sialoglycoprotein (464) 635
- Bamberg, E., see Kolb, H.-A. (464) 127
- Bamberg, E., see Weidekamm, E. (464) 442
- Barnett, G. and Ličko, V.
Transport across epithelia. A kinetic evaluation (464) 276
- Beckers, F., see Zimmermann, U. (464) 399
- Bentrup, F.W., see Felle, H. (464) 179
- Benz, R., Fröhlich, O. and Läger, P.
influence of membrane structure on the kinetics of carrier-mediated ion transport through lipid bilayers (464) 465
- Berglinde, T.
Effects of common inhibitors of gastric secretion on secretagogue-induced respiration and aminopyrine accumulation in isolated gastric glands (464) 217
- Bickel, W.J., see Bryant, H.J. (464) 188
- Blok, M.C., van Deenen, L.L.M. and de Gier, J.
The effect of cholesterol incorporation on the temperature dependence of water permeation through liposomal membranes prepared from phosphatidylcholines (464) 509
- Boutry, M., Foury, F. and Goffeau, A.
Energy-dependent uptake of calcium by the yeast *Schizosaccharomyces pombe* (464) 602
- Brady, G.W. and Fein, D.B.
An analysis of the X-ray interchain peak profile in dipalmitoylglycerophosphocholine (464) 249
- Bragg, P.D., see Singh, A.P. (464) 562
- Brdiszka, D., see Weidekamm, E. (464) 442
- Brown, L.R. and Wüthrich, K.
A spin label study of lipid oxidation catalyzed by heme proteins (464) 356
- Bryant, H.J., Gruener, R., Kilkson, R. and Bickel, W.J.
Light scattering and excitation in lobster giant axon. Effects of ion substitution (464) 188
- Bunow, M.R. and Levin, I.W.
Vibrational Raman spectra of lipid systems containing amphotericin B (464) 202
- Caplan, S.R., see Lang, M.A. (464) 571
- Chang, H., Saccomani, G., Rabon, E., Schackmann, R. and Sachs, G.
Proton transport by gastric membrane vesicles (464) 313
- Chapman, D., Peel, W.E., Kingston, B. and Lilley, T.H.
Lipid phase transitions in model biomembranes. The effect of ions on phosphatidylcholine bilayers (464) 260
- Cheng, L.C., Rogus, E.M. and Zieler, K.
Catechol, a structural requirement for ($\text{Na}^+ + \text{K}^+$)-ATPase stimulation in rat skeletal muscle membrane (464) 338
- Cheng, L.C., see Rogus, E.M. (464) 347
- Chien, D.Y. and Macey, R.I.
Diffusional water permeability of red cells. Independence on osmolality (464) 45
- Christensen, H.N., see Garcia-Sancho, J. (464) 295
- Clarke, S.M. and Fink, L.M.
Studies on the iodinated surface membrane proteins and concanavalin A agglutination of transformed syrian hamster cells (464) 433
- Clemetson, K.J., Pfueller, S.L., Luscher, E.F. and Jenkins, C.S.P.
Isolation of the membrane glycoproteins of human blood platelets by lectin affinity chromatography (464) 493
- Coster, H.G.L., see Zimmermann, U. (464) 399
- Dallner, G., see Nilsson, O.S. (464) 459

- De Gier, J., see Blok, M.C. (464) 509
- Delmelle, M. and Virmaux, N.
Location of two sulfhydryl groups in the rhodopsin molecule by use of the spin label technique (464) 370
- Demel, R.A., see van Zoelen, E.J.J. (464) 482
- Desnick, R.J., see Steger, L.D. (464) 530
- Eibl, H., see Neher, E. (464) 37
- Essig, A., see Lang, M.A. (464) 571
- Fein, D.B., see Brady, G.W. (464) 249
- Felle, H. and Bentrup, F.W.
A study of the primary effect of the uncoupler carbonyl cyanide *m*-chlorophenylhydrazide on membrane potential and conductance in *Riccia fluitans* (464) 179
- Fink, L.M., see Clarke, S.M. (464) 433
- Forte, L.R., see Walkenbach, R.J. (464) 165
- Fossel, E.T. and Solomon, A.K.
Membrane mediated link between ion transport and metabolism in human red cells (464) 82
- Foury, F., see Boutry, M. (464) 602
- Fröhlich, O., see Benz, R. (464) 465
- Garcia-Sancho, J., Sanchez, A. and Christensen, H.N.
Role of proton dissociation in the transport of acidic amino acids by the Ehrlich ascites tumor cell (464) 295
- Gárdos, G., see Sardhadi, B. (464) 93
- Gerlóczy, A., see Sardhadi, B. (464) 93
- Gilkes, N.R. and Weeks, G.
The purification and characterization of *Dictyostelium discoideum* plasma membranes (464) 142
- Goffeau, A., see Boutry, M. (464) 602
- Gruener, R., see Bryant, H.J. (464) 188
- Grunwald, G.B., see Janick, P.A. (464) 328
- Hutton, W.C., see Moore, N.F. (464) 234
- Janick, P.A., Grunwald, G.B. and Wood, J.M.
The effects of *N*-ethylmaleimide on active amino acid transport in *Escherichia coli* (464) 328
- Jenkins, C.S.P., see Clemetson, K.J. (464) 493
- Kailis, S.G. and Morgan, E.H.
Iron uptake by immature erythroid cells. Mechanism of dependence on metabolic energy (464) 389
- Kamio, Y. and Nikaido, H.
Outer membrane of *Salmonella typhimurium*. Identification of proteins exposed on cell surface (464) 589
- Kamo, N., see Muratsugu, M. (464) 613
- Kilkson, R., see Bryant, H.J. (464) 188
- Kingston, B., see Chapman, D. (464) 260
- Kirk, R.G.
Potassium transport and lipid composition in mammalian red blood cell membranes (464) 157
- Kobatake, Y., see Muratsugu, M. (464) 613
- Kolb, H.-A. and Bamberg, E.
Influence of membrane thickness and ion concentration on the properties of the gramicidin A channel. Autocorrelation, spectral power density, relaxation and single-channel studies (464) 127
- Kurihara, K., see Muratsugu, M. (464) 613
- Landesberg, R., see Vanderkooi, J.M. (464) 1
- Lang, M.A., Caplan, S.R. and Essig, A.
Sodium transport and oxygen consumption in toad bladder. A thermodynamic approach (464) 571
- Läuger, P., see Benz, R. (464) 465
- Lehmann, W., see Weidekamm, E. (464) 442
- Levin, I.W., see Bunow, M.R. (464) 202
- Levin, R.J., see Syme, G. (464) 620
- Ličko, V., see Barnett, G. (464) 276
- Lilley, T.H., see Chapman, D. (464) 260
- Luscher, E.F., see Clemetson, K.J. (464) 493
- Macco, F., see Weidekamm, E. (464) 442
- McDonald, G.G., see Vanderkooi, J.M. (464) 1
- Macey, R.I., see Chien, D.Y. (464) 45
- Madeira, V.M.C.
Subunits of the calcium ion-pump system of sarcoplasmic reticulum (464) 583
- Martin, R.B., see Moore, N.F. (464) 234
- Metaxas, M.N., see Bachi, T. (464) 635
- Moore, N.F., Patzer, E.J., Wagner, R.R., Yeagle, P.L., Hutton, W.C. and Martin, R.B.
The structure of vesicular stomatitis virus membrane. A phosphorus nuclear magnetic resonance approach (464) 234
- Morgan, E.H., see Kailis, S.G. (464) 389
- Morris, S.J., Schober, R. and Schultens, H.A.
Correlation of physical and morphological parameters with release of catecholamines, ATP, and protein from adrenal medulla chromaffin granules (464) 65
- Morris, S.J., and Schovanka, I.
Some physical properties of adrenal medulla chromaffin granules isolated by a new continuous iso-osmotic density gradient method (464) 53
- Muratsugu, M., Kamo, N., Kurihara, K. and Kobatake, Y.
Selective electrode for dibenzyl dimethyl

- ammonium cation as indicator of the membrane potential in biological systems (464) 613
- Neher, E. and Eibl, H.
The influence of phospholipid polar groups on gramicidin channels (464) 37
- Nikaido, H., see Kamio, Y. (464) 589
- Nilsson, O.S. and Dallner, G.
Transverse asymmetry of phospholipids in subcellular membranes of rat liver (464) 459
- Olsen, R.W., see Ticku, M.K. (464) 519
- Patzer, E.J., see Moore, N.F. (464) 234
- Peel, W.E., see Chapman, D. (464) 260
- Peterson, N.A., see Tan, C.H. (464) 459
- Pfueller, S.L., see Clemetson, K.J. (464) 493
- Rabon, E., see Chang, H. (464) 313
- Raghupathy, E., see Tan, C.H. (464) 459
- Reuvers, F.A.M., see van Zoelen, E.J.J. (464) 482
- Riordan, J.R. and Alon, N.
Binding of [^3H]cytochalasin B and [^3H]colchicine to isolated liver plasma membranes (464) 547
- Roelofeon, B. and Schatzmann, H.J.
The lipid requirement of the (Ca^{2+} + Mg^{2+})-ATPase in the human erythrocyte membrane, as studied by various highly purified phospholipases (464) 17
- Rogus, E.M., Cheng, L.C. and Zierler, K.
 β -Adrenergic effect of Na^+ - K^+ transport in rat skeletal muscle (464) 347
- Rogus, E.M., see Cheng, L.C. (464) 338
- Rozengurt, E. and Stein, W.D.
Regulation of uridine uptake by serum and insulin in density-inhibited 3T3 cells (464) 417
- Saccomani, G., see Chang, H. (464) 313
- Sachs, G., see Chang, H. (464) 313
- Sanchez, A., see Garcia-Sancho, J. (464) 295
- Sardhadi, B., Szász, I., Gerlóczy, A. and Gárdos, G.
Transport parameters and stoichiometry of active calcium ion-extrusion in intact human red cells (464) 93
- Saris, N.-E., see Åkerman, K.E.O. (464) 287
- Schakmann, R., see Chang, H. (464) 313
- Schatzmann, H.J., see Roelofeon, B. (464) 17
- Schlieper, P.
Effect of angiotensin II on artificial lipid membranes (464) 448
- Schober, R., see Morris, S.J. (464) 65
- Schovanka, I., see Morris S.J. (464) 53
- Schultens, H.A., see Morris, S.J. (464) 65
- Selich II, H., see Vanderkooi, J.M. (464) 1
- Singh, A.P. and Bragg, P.D.
ATP-dependent proton translocation and quenching of 9-aminoacridine fluorescence in inside-out membrane vesicles of a cytochrome-deficient mutant of *Escherichia coli* (464) 562
- Solomon, A.K., see Fossel, E.T. (464) 82
- Steger, L.D. and Desnick, R.J.
Enzyme therapy. VI. Comparative in vivo fates and effects on lysosomal integrity of enzyme entrapped in negatively and positively charged liposomes (464) 530
- Stein, W.D., see Rozengurt, E. (464) 417
- Syme, G. and Levin, R.J.
The effects of hypothyroidism and fasting on electrogenic amino acids transfer: possible evidence for multiple neutral amino acid carrier systems in rat jejunum (464) 620
- Szász, I., see Sardhadi, B. (464) 93
- Takenawa, T., Wada, E. and Tsumita, T.
myo-Inositol binding and transport in brush border membranes of rat kidney (464) 108
- Tan, C.H., Peterson, N.A. and Raghupathy, E.
D-Glucosamine uptake by rat brain synaptosomes (464) 459
- Tanner, M.J.A., see Bachi, T. (464) 635
- Ticku, M.K. and Olsen, R.W.
 γ -Aminobutyric acid-stimulated chloride permeability in crayfish muscle (464) 519
- Tsumita, T., see Takenawa, T. (464) 108
- van Deenen, L.L.M., see Blok, M.C. (464) 509
- van Deenen, L.L.M., see van Zoelen, E.J.J. (464) 482
- Vanderkooi, J.M., Landesberg, R., Selich II, H. and McDonald, G.G.
Interaction of general anesthetics with phospholipid vesicles and biological membranes (464) 1
- van Zoelen, E.J.J., Zwaal, R.F.A., Reuvers, F.A.M., Demel, R.A. and van Deenen, L.L.M.
Evidence for the preferential interaction of glycophorin with negatively charged phospholipids (464) 482
- Virmaux, N., see Delmelle, M. (464) 370
- Von Dreele, P.H. and Williams, K.L.
Electron spin resonance studies of the membranes of the cellular slime mold *Dictyostelium discoideum* (464) 378
- Wada, E., see Takenawa, T. (464) 108

- Wagner, R.R., see Moore, N.F. (464) 234
- Walkenbach, R.J. and Forte, L.R.
Solubilization and photoaffinity labeling
of renal membrane cyclic AMP receptors
(464) 165
- Weber, R., see Weidekamm, E. (464) 442
- Weeks, G., see Gilkes, N.R. (464) 142
- Weidekamm, E., Bamberg, E., Brdiszka, D.,
Wildermuth, G., Macco, F., Lehmann,
W. and Weber, R.
Raman spectroscopic investigation of the
interaction of gramicidin A with dipalmi-
toyl phosphatidylcholine liposomes (464)
442
- Whiting, K., see Bachi, T. (464) 635
- Widström, M.K.F., see Åkerman, K.E.O.
(464) 287
- Wildermuth, G., see Weidekamm, E. (464)
442
- Williams, K.L., see von Dreele, P.H. (464) 378
- Winne, D.
Correction of the apparent Michaelis con-
stant, biased by an unstirred layer, if a
passive transport component is present
(464) 118
- Wood, J.M., see Janick, P.A. (464) 328
- Wüthrich, K., see Brown, L.R. (464) 356
- Yeagle, P.L., see Moore, N.F. (464) 234
- Zieler, K., see Cheng, L.C. (464) 338
- Zieler, K., see Rogus, E.M. (464) 347
- Zimmermann, U., Beckers, F. and Coster,
H.G.L.
The effect of pressure on the electrical
breakdown in the membranes of *Valonia*
utricularis (464) 399
- Zwaal, R.F.A., see van Zoelen, E.J.J. (464)
482