AUTHOR INDEX

Akamatsu, Y, see Yoshikawa, W (821) 277

Akutsu, H, see Yoshikawa, W (821) 277

Au KS, Cho, KL, Lee, KS and Lai, KM

An endogenous inhibitor protein of synaptic plasma membrane ($Ca^{2+} + Mg^{2+}$)-ATPase (821) 348

Ausiello, DA, see Dix, JA (821) 243

Balgavy, P, see Nosal, R (821) 217

Bartosz G and Gaczynska, M

Effect of proteolysis on the electron spin resonance spectra of maleimide spin labeled erythrocyte membrane (821) 175

Batley, M, McNicholas, PA and Redmond, JW

Analytical studies of lipopolysaccharide and its derivatives from *Salmonella minnesota* R595 III Reappraisal of established methods (821) 205

Batley, M, Packer, NH and Redmond, JW

Analytical studies of lipopolysaccharide and its derivatives from *Salmonella minnesota* R595 I Phosphorus magnetic resonance spectra (821) 179

Batley, M., Packer, N.H. and Redmond, J.W.

Analytical studies of lipopolysaccharide and its derivatives from *Salmonella minnesota* R595 II Proton and carbon magnetic resonance spectra (821) 195

Beauge, L, see Berberian, G (821) 17

Beeler, T and Gable, K

Effect of halothane on Ca²⁺-induced Ca²⁺ release from sarcoplasmic reticulum vesicles isolated from rat skeletal muscle (821) 142

Bental, M, see Wilschut, J (821) 45

Berberian G and Beauge, L

Phosphatase activity of (Na⁺ + K⁺)-ATPase Ligand interactions and related enzyme forms (821) 17

Bergeron, J J M, Paiement, J, Khan, M N and Smith, C E Terminal glycosylation in rat hepatic Golgi fractions heterogeneous locations for sialic acid and galactose acceptors and their transferases (821) 393

Bianchi, J, see Rose, R C (821) 431

Bihler, I, Charles, P and Sawh, PC

Monensin stimulates sugar transport in avian erythrocytes (821) 37

Bihler, I, Sawh, PC and Charles, P

Stimulation of glucose transport in skeletal muscle by the sodium ionophore monensin (821) 30

Blumenthal, R, see Spiegel S (821) 310

Boegheim JPJ, see Van Steveninck, J (821) 1

Bonting, S L, see Helmich-de Jong, M L (821) 377

Brain, APR, see Mannock, DA (821) 153

Brophy, P J see Meenaghan, M (821) 72

Buchet, R, Sandorfy, C, Trapane, TL and Urry, DW
Infrared spectroscopic studies on gramicidin ion-channels
relation to the mechanisms of anesthesia (821) 8

Burnham, C, Karlish, SJD and Jørgensen, PL

Identification and reconstitution of a Na⁺/K⁺/Cl⁻ cotransporter and K⁺ channel from luminal membranes of renal red outer medulla (821) 461

Bushunow, N, see Lew, RR (821) 341

Butikofer, P and Ott P

The influence of cellular ATP levels on dimyristoylphosphatidylcholine-induced release of vesicles from human erythrocytes (821) 91

Butterfield, DA, see Farmer, BT, II (821) 420

Cameron, DG, see Dluhy, RA (821) 437

Catterall, WA, see Gordon, D (821) 130

Charles, P, see Bihler, I (821) 30

Charles, P, see Bihler, I (821) 37

Chasan, B and Solomon, A K

Urea reflection coefficient for the human red cell membrane (821) 56

Cho, B-H and Komor, E

The amino acid transport systems of the autotrophically grown green alga Chlorella (821) 384

Cho, K L, see Au, K S (821) 348

Chowdhry, BZ, see Dluhy, RA (821) 437

Cornell, R and MacLennan, D H

Solubilization and reconstitution of cholinephosphotransferase from sarcoplasmic reticulum stabilization of solubilized enzyme by diacylglycerol and glycerol (821) 97

Coughlin, R T, Peterson, A A, Haug, A, Pownall, H J and McGroarty, E J

A pH titration study on the ionic bridging within lipopoly-saccharide aggregates (821) 404

De Pont, JJHHM, see Helmich-de Jong, ML (821) 377

Deckmann, M, Haimovitz, R and Shinitzky, M

Selective release of integral proteins from human erythrocyte membranes by hydrostatic pressure (821) 334

Dix, JA, Ausiello, DA, Jung, CY and Verkman, AS Target analysis studies of red cell water and urea transport (821) 243

Dluhy, R A, Chowdhry, B Z and Cameron, D G
Infrared characterization of conformational differences in
the lamellar phases of 1,3-dipalmitoyl-sn-glycero-2-phos-

Dubbelman, T M A R, see Van Steveninck, J (821) 1

phocholine (821) 437

Ermishkin, L, see Grigorjev, P (821) 297

Farmer, BT, II, Harmon, TM and Butterfield, DA ESR studies of the erythrocyte membrane skeletal protein network influence of the state of aggregation of spectrin on the physical state of membrane proteins, bilayer lipids, and cell surface carbohydrates (821) 420

Fishman, PH, see Spiegel, S (821) 310 Follett GF, see Meenaghan, M (821) 72

Gable K, see Beeler, T (821) 142 Gaczynska, M, see Bartosz, G (821) 175

George, R, Lewis, R N A H and McElhaney, R N
Reconstitution and photolabeling of the purified (Na⁺+ Mg²⁺)-ATPase from the plasma membrane of *Acholeplasma laidlawii* B with phospholipids containing a photosensitive fatty acyl group (821) 253

Goppelt, M, see Szamel, M (821) 479

Gordon D, Zlotkin, E and Catterall, WA

The binding of an insect-selective neurotoxin and saxitoxin to insect neuronal membranes (821) 130

Grigorjev, P., Schlegel, R., Thrum, H. and Ermishkin, L. Roflamycoin — a new channel-forming antibiotic (821) 297

Hackenbrock, CR, see Sowers, AE (821) 85
Haimovitz, R, see Deckmann, M (821) 334
Hallmann, D, see Stumpel, J (821) 165
Handler, JS, see Spiegel, S (821) 310
Harmon, TM, see Farmer, BT, II (821) 420
Hasselbach, W, see Ludi, H (821) 137
Haug A see Coughlin, RT (821) 404
Hauser, H see Perevucnik, G (821) 169

Helmich-de Jong, M.L., Van Emst-de Vries, S.E., De Pont JJHHM, Schuurmans Stekhoven, F.M.A.H. and Bonting, S.L.

Direct evidence for an ADP-sensitive phosphointermediate of (K + H +)-ATPase (821) 377

Hoekstra, D, see Wilschut, J (821) 45

Iwashima, A, see Kitagawa, K (821) 63 Iwashima, A, see Kitagawa, K (821) 67

Jacobson, BS, see Mason, PW (821) 264 Jakubovsky, J, see Nosal, R (821) 217 Jančinova, V, see Nosal, R (821) 217 Jørgensen, PL and Petersen, J

Chymotryptic cleavage of α -subunit in E₁-forms of renal (Na⁺ + K⁺)-ATPase effects on enzymatic properties, ligand binding and cation exchange (821) 319

Jørgensen, P L, see Burnham, C (821) 461 Jung, C Y, see Dix, J A (821) 243

Karlish, S J D, see Burnham, C (821) 461
 Kawamura, M, Ohmizo, K, Morohashi, M and Nagano, K
 Protective effect of Na⁺ and K⁺ against inactivation of (Na⁺ + K⁺)-ATPase by high concentrations of 2-mercaptoethanol at high temperatures (821) 115

Khan, MN, see Bergeron, JJM (821) 393

Kim, H D, see Shukla, S D (821) 305

Kırschner-Zılber, I, see Shaklaı, N (821) 355

Kitagawa, K., Nishino, H. and Iwashima. A.

Analysis of hexose transport in untransformed and sarcoma virus-transformed mouse 3T3 cells by photoaffinity binding of cytochalasin B (821) 63

Kitagawa, K. Nishino H. and Iwashima, A.

Effect of tunicamycin on hexose transport in mouse embryo fibroblast Swiss 3T3 cells (821) 67

Komor, E see Cho B-H (821) 384

Kusumi, A see Subczynski, W K (821) 259

Kyogoku Y see Yoshikawa, W (821) 277

Lai K M, see Au, K S (821) 348

Lasic DD, see Perevucnik, G (821) 169

Lawaczeck R, see Pitterich, H (821) 233

Lee, K S see Au, K S (821) 348

Lew RR Bushunow N and Spanswick, RM

ATP-dependent proton-pumping activities of zucchini fruit microsomes A study of tonoplast and plasma membrane activities (821) 341

Lewis RNAH, see George, R (821) 253

Liautard, JP see Philippot JR (821) 79

Lichtenberg D

Characterization of the solubilization of lipid bilayers by surfactants (821) 470

Lomax, T L and Mehlhorn, R J

Determination of osmotic volumes and pH gradients of plant membrane and lipid vesicles using ESR spectroscopy (821) 106

Ludi, H and Hasselbach W

Preparation of a highly concentrated completely monomeric active sarcoplasmic reticulum Ca²⁺-ATPase (821) 137

McElhaney, R N, see George, R (821) 253

McGroarty E J see Coughlin R T (821) 404

MacLennan, DH, see Cornell, R (821) 97

McNicholas, PA, see Batley, M (821) 205

McRae, DG, Yamamoto, E and Towers, GHN

The mode of action of polyacetylene and thiophene photosensitizers on liposome permeability to glucose (821) 488

Mannock, DA, Brain, APR and Williams, WP

Phase behaviour of the membrane lipids of the thermophilic blue-green alga *Anacystus nidulans* (821) 153

Martin, A P, see Pershadsingh, H A (821) 445

Maruyama, Y, Moore, D and Petersen, OH

Calcium-activated cation channel in rat thyroid follicular cells (821) 229

Mason, PW and Jacobson, BS

Isolation of the dorsal, ventral and intracellular domains of HeLa cell plasma membranes following adhesion to a gelatin substrate (821) 264

Masur, S K, Sapirstein, V and Rivero, D

Phorbol myristate acetate induces endocytosis as well as exocytosis and hydroosmosis in toad urinary bladder (821) 286

Mazurier, J., Montreuil, J and Spik G

Visualization of lactotransferrin brush-border receptors by ligand-blotting (821) 453

Meenaghan M, Follett, GF and Brophy, PJ

Temperature sensitivity of potassium flux into red blood cells in the familial pseudohyperkalaemia syndrome (821)

Mehlhorn, R J, see Lomax, T L (821) 106

Michaelis, L and Moore M J

Location of ubiquinone-10 (CoQ-10) in phospholipid vesicles (821) 121

Montreuil, J, see Mazurier, J (821) 453

Moore, D, see Maruyama, Y (821) 229

Moore, MJ, see Michaelis, L (821) 121

Morohashi, M, see Kawamura, M (821) 115

Mutaftschiev, S, see Philippot, JR (821) 79

Nagano, K, see Kawamura, M (821) 115

Nir, S see Wilschut, J (821) 45

Nishino, H see Kitagawa K (821) 63

Nishino, H., see Kitagawa, K. (821) 67

Nosal, R., Jančinova V., Ondriaš, K., Jakubovsky, J. and Balgavy P.

The interaction of β -adrenoceptor blocking drugs with platelet aggregation, calcium displacement and fluidization of the membrane (821) 217

Noteboom, W D see Pershadsingh, H A (821) 445

Ohmizo, K see Kawamura, M (821) 115 Ondriaš K see Nosal, R (821) 217

Ott, P, see Butikofer P (821) 91

Packer, N H see Batley, M (821) 179

Packer, N H see Batley, M (821) 195 Paiement J, see Bergeron, J J M (821) 393

Perevucnik, G, Schurtenberger, P, Lasic, DD and Hauser, H Size analysis of biological membrane vesicles by gel filtration, dynamic light scattering and electron microscopy (821)

Pershadsingh, HA, Stubbs, EB, Jr, Noteboom, WD, Vorbeck, ML and Martin, AP

Influence of Ca²⁺ on the plasma membrane potential and electrogenic uptake of glycine by myeloma cells Involvement of a Ca²⁺-activated K⁺ channel (821) 445

Petersen, J, see Jørgensen, P L (821) 319

Petersen, O H, see Maruyama, Y (821) 229

Peterson, A A see Coughlin, R T (821) 404

Philippot, J.R. Mutaftschiev, S. and Liautard, J.P.

Extemporaneous preparation of large unilamellar liposomes (821) 79

Philipson K D

Symmetry properties of the Na⁺-Ca²⁺ exchange mechanism in cardiac sarcolemmal vesicles (821) 367

Pitterich, H and Lawaczeck, R

On the water and proton permeabilities across membranes from erythrocyte ghosts (821) 233

Pownall, H J, see Coughlin, R T (821) 404

Rabizadeh, E, see Shaklai, N (821) 355

Redmond, JW, see Batley, M (821) 179

Redmond, JW, see Batley, M (821) 195

Redmond, JW, see Batley, M (821) 205

Resch, K, see Szamel, M (821) 479

Rivero, D, see Masur, S K (821) 286

Rose, RC, Bianchi, J and Schuette, SA

Effective use of renal cortical slices in transport and metabolic studies (821) 431

Sandorfy, C, see Buchet, R (821) 8

Sapirstein, V, see Masur, SK (821) 286

Sawh, PC, see Bihler, I (821) 30

Sawh, PC see Bihler, I (821) 37

Schlegel, R, see Grigorjev, P (821) 297

Scholma, J, see Wilschut, J (821) 45

Schuette, SA, see Rose, RC (821) 431

Schurtenberger, P, see Perevucnik, G (821) 169

Schuurmans Stekhoven, F M A H, see Helmich-de Jong M L (821) 377

Sergeant, S, see Shukla, SD (821) 305

Shaklai, N, Shviro, Y, Rabizadeh, E and Kirschner-Zilber, I Accumulation and drainage of hemin in the red cell membrane (821) 355

Shinitzky, M, see Deckmann, M (821) 334

Shukla, S D, Sergeant, S and Kim H D

[³H]Inositol incorporation into phosphoinositides of pig reticulocytes (821) 305

Shviro, Y see Shaklai, N (821) 355

Smith CE, see Bergeron, JJM (821) 393

Solomon, A K see Chasan B (821) 56

Solomon, A K, see Toon, M R (821) 502

Sowers, A E and Hackenbrock, C R

Variation in protein lateral diffusion coefficients is related to variation in protein concentration found in mitochondrial inner membranes (821) 85

Spanswick, R M, see Lew, R R (821) 341

Spiegel, S, Blumenthal, R Fishman, P H and Handler, J S Gangliosides do not move from apical to basolateral plasma membrane in cultured epithelial cells (821) 310

Spik G, see Mazurier, J (821) 453

Stephens, R E

Ciliary membrane tubulin and associated proteins a complex stable to Triton X-114 dissociation (821) 413

Stubbs, EB, Jr, see Pershadsingh, HA (821) 445

Stumpel, J, Vaz, W L C and Hallmann, D

An X-ray diffraction and differential scanning calorimetric study on the effect of sucrose on the properties of phosphatidylcholine bilayers (821) 165

Subczynski, W K and Kusumi, A

Detection of oxygen consumption during very early stages of lipid peroxidation by ESR nitroxide spin probe method (821) 259

Sweiry, J H and Yudilevich, D L

Transport of folates at maternal and fetal sides of the placenta lack of inhibition by methotrexate (821) 497

Szamel, M, Goppelt, M and Resch, K

Characterization of plasma membrane domains of mouse EL₄ lymphoma cells obtained by affinity chromatography on concanavalin A-Sepharose (821) 479

Thrum, H, see Grigorjev, P (821) 297

Toon, MR and Solomon, AK

Relation between red cell anion exchange and urea transport (821) 502

Towers, GHN, see McRae, DG (821) 488 Trapane, TL, see Buchet, R (821) 8

Urry, DW, see Buchet, R (821) 8

Van Emst-de Vries, S E see Helmich-de Jong, M L (821) 377
Van Steveninck, J, Boegheim, J P J and Dubbelman, T M A R
The influence of cupric ions on porphyrin-induced photodynamic membrane damage in human red blood cells (821) 1
Vaz, W L C see Stumpel, J (821) 165

Vaz, W L C see Stumpel, J (821) 163 Verkman, A S, see Dix, J A (821) 243 Vorbeck, M L see Pershadsingh, H A (821) 445 Williams, W P, see Mannock, D A (821) 153

Wilschut, J., Scholma, J., Bental, M., Hoekstra, D. and Nir, S. Ca²⁺-induced fusion of phosphatidylserine vesicles mass action kinetic analysis of membrane lipid mixing and aqueous contents mixing (821) 45

Yamamoto, E, see McRae, DG (821) 488 Yoshikawa, W, Akutsu, H, Kyogoku, Y and Akamatsu, Y

An essential role of phosphatidylglycerol in the formation of the osmotically stable liposomes of *Escherichia coli* phospholipids (821) 277

Yudilevich, D.L. see Sweiry, J.H. (821) 497

Zlotkin E, see Gordon, D (821) 130