



Cumulative Contents

Information for Contributors

Regular Papers

Formation of membrane channels by chrysospermins, new peptaibol antibiotics

P. Grigoriev, R. Schlegel, K. Dornberger and U. Gräfe (Germany)

Effect of hydration upon the fluidity of intercellular membranes of stratum corneum: an EPR study

A. Alonso, N.C. Meirelles and M. Tabak (Brazil)

Binding of nitrate to renal brush border membranes studied with ^{14}N nuclear magnetic resonance (NMR)

W.L. Galanter, O.S. Ruiz, R.J. Labotka and J.A.L. Arruda (USA)

Characterization of 9-aminoacridine interaction with chromatophore membranes and modelling of the probe response to artificially induced transmembrane ΔpH values

R. Casadio, S. Di Bernardo, P. Fariselli and B.A. Melandri (Italy)

Targeted delivery of a substrate for P-glycoprotein to renal cysts in vitro

N.L. Simmons, J. Hunter and M.A. Jepson (UK)

Determination of the $\text{p}K_{\text{a}}$ of membrane-bound *N,N*-dimethylsphingosine using deuterium NMR spectroscopy

B. Lau and P.M. Macdonald (Canada)

Production of thrombin as a probe for mixing of phospholipids in membranes on solid supports

P.L.A. Giesen, H.C. Hemker and W.Th. Hermens (The Netherlands)

Synthesis and characterization of supramolecular biovector (SMBV) specifically designed for the entrapment of ionic molecules

I. De Miguel, K. Ioualalen, M. Bonnefous, M. Peyrot, F. Nguyen, M. Cervilla, N. Soulet, R. Dirson, V. Rieumajou, L. Imbertie, C. Solers, S. Cazes, G. Favre and D. Samain (France)

Effects of short-chain alcohols on the phase behavior and interdigitation of phosphatidylcholine bilayer membranes

L. Löbbecke and G. Cevc (Germany)

vii

Dipeptide transport and hydrolysis in rat small intestine, in vitro

A.P. Sykes, N. Lister, P.D. Bailey, C.A.R. Boyd and J.R. Bronk (UK)

70

Partitioning and antioxidant action of the water-soluble antioxidant, Trolox, between the aqueous and lipid phases of phosphatidylcholine membranes: ^{14}C tracer and product studies

L.R.C. Barclay, J.D. Artz and J.J. Mowat (Canada)

77

1

Molecular basis of the inhibition of gentamicin nephrotoxicity by daptomycin; an infrared spectroscopic investigation

6

K. Gurnani, H. Khouri, M. Couture, M.G. Bergeron, D. Beauchamp and D. Carrier (Canada)

86

Short Sequence-Paper

16

Isolation of the *vma-4* gene encoding the 26 kDa subunit of the *Neurospora crassa* vacuolar ATPase

E.J. Bowman, A. Steinhart and B.J. Bowman (USA)

95

23

Regular Papers

31

A new strategy for attachment of antibodies to sterically stabilized liposomes resulting in efficient targeting to cancer cells

T.M. Allen, E. Brandeis, C.B. Hansen, G.Y. Kao and S. Zalipsky (Canada, USA)

99

37

Liposomal entrapment of the neutrophil-derived peptide indolicidin endows it with in vivo antifungal activity

I. Ahmad, W.R. Perkins, D.M. Lupan, M.E. Selsted and A.S. Janoff (USA)

109

43

An anion channel from transverse tubular membranes incorporated into planar bilayers

T. Ide, J. Hidaka and M. Kasai (Japan)

115

49

Membrane potential-driven translocation of a lipid-conjugated rhodamine

J.M. Leenhouts and B. De Kruijff (The Netherlands)

121

59

Effect of sterol structure on molecular interactions and lateral domain formation in monolayers containing dipalmitoyl phosphatidylcholine

J.P. Slotte (Finland)

127

Phase behaviour of distearoylphosphatidylethanolamine in glycerol – a thermal and X-ray diffraction study <i>Z.-W. Yu, N.M. Tsvetkova, L.I. Tsonev and P.J. Quinn (UK, Bulgaria)</i>	135	terdigitated and non-interdigitated structures <i>H. Komatsu and S. Okada (Japan)</i>	169
Alterations in the properties and isoform ratios of brain Na ⁺ /K ⁺ -ATPase in streptozotocin diabetic rats <i>Á. Vér, P. Csermely, T. Bányász, T. Kovács and J. Somogyi (Hungary)</i>	143	Interaction of phosphatidylcholine liposomes with the human stratum corneum <i>S. Zellmer, W. Pfeil and J. Lasch (Germany)</i>	176
Cross-linking of the ryanodine receptor/Ca ²⁺ release channel from skeletal muscle <i>V. Shoshan-Barmatz, N. Hadad-Halfon and O. Ostersetzer (Israel)</i>	151	Small angle X-ray diffraction and differential scanning calorimetric studies on <i>O</i> -methyl-(–)- Δ^8 -tetrahydrocannabinol and its 5' iodinated derivative in membrane bilayers <i>T. Mavromoustakos, D.-P. Yang and A. Makriyannis (Greece, USA)</i>	183
Insertion of an uncharged polypeptide into the mitochondrial inner membrane does not require a trans-bilayer electrochemical potential: effects of positive charges <i>H.M. McBride, J.R. Silvius and G.C. Shore (Canada)</i>	162	Short Sequence-Paper	
Increased permeability of phase-separated liposomal membranes with mixtures of ethanol-induced in-		A <i>Synechococcus</i> gene encoding a putative pore-forming intrinsic membrane protein <i>S. Kashiwagi, K. Kanamaru and T. Mizuno (Japan)</i>	189
		<i>Cumulative Contents, Vol. 1237</i>	193
		<i>Author Index</i>	195