



Cumulative Contents

Information for Contributors

vii

Rapid report

Genistein inhibition of fast Na^+ current in uterine leiomyosarcoma cells is independent of tyrosine kinase inhibition

M. Kusaka and N. Sperelakis (USA)

1

Regular papers

Serum independent liposome uptake by mouse liver

F. Liu and D. Liu (USA)

5

Interaction of dipyrindamole with lipids in mixed Langmuir monolayers

G.P. Borissevitch, M. Tabak and O.N. Oliveira (Brazil)

12

Binding and uptake of liposomes containing a poly(ethylene glycol) derivative of cholesterol (stealth liposomes) by the macrophage cell line J774: influence of PEG content and its molecular weight

A. Vertut-Doi, H. Ishiwata and K. Miyajima (France, Japan)

19

Is control of distribution of liposomes between tumors and bone marrow possible?

A. Nagayasu, K. Uchiyama, T. Nishida, Y. Yamagiwa, Y. Kawai and H. Kiwada (Japan)

29

Effect of cholesterol on the tight insertion of cytochrome b_5 into large unilamellar vesicles

K.M.P. Taylor and M.A. Roseman (USA)

35

Endocytosis and intracellular processing accompanying transfection mediated by cationic liposomes

D.S. Friend, D. Papahadjopoulos and R.J. Debs (USA)

41

Effects of fusogenic and DNA-binding amphiphilic compounds on the receptor-mediated gene transfer into hepatic cells by asialofetuin-labeled liposomes

T. Hara, H. Kuwasawa, Y. Aramaki, S. Takada, K. Koike, K. Ishidate, H. Kato and S. Tsuchiya (Japan)

51

Receptor-mediated endocytosis of poly(acrylic acid)-conjugated liposomes by macrophages

M. Fujiwara, J.D. Baldeschwieler and R.H. Grubbs (USA)

59

Depth dependence of the perturbing effect of placing

a bulky group (oxazolidine ring spin labels) in the membrane on the membrane phase transition

A. Wisniewska, Y. Nishimoto, J.S. Hyde, A. Kusumi and W.K. Subczynski (Poland, USA, Japan)

68

Kinetics of membrane micellization by the hydrophobic polyelectrolyte poly(2-ethylacrylic acid)

J.L. Thomas, B.P. Devlin and D.A. Tirrell (USA)

73

Contribution to the biophysics of the lethal effects of electric field on microorganisms

M.M. Kekez, P. Savic and B.F. Johnson (Canada)

79

Cyclodextrins: a new tool for the controlled lipid depletion of thylakoid membranes

A. Rawlyer and P.A. Siegenthaler (Switzerland)

89

Effect of X31 influenza virus fusion on phosphatidylserine asymmetry in erythrocytes

C.C. Pak and R. Blumenthal (USA)

98

Transport mechanisms of nucleosides and the derivative, 6-mercaptopurine riboside across rat intestinal brush-border membranes

K. Iseki, M. Sugawara, T. Fujiwara, I. Naasani, M. Kobayashi and K. Miyazaki (Japan)

105

Physiological evidence for an interaction between Glu-325 and His-322 in the lactose carrier of *Escherichia coli*

J.-I. Lee, M.F. Varela and T.H. Wilson (USA)

111

Identification of a sodium-bicarbonate symport in human platelets

O.A. Gende and H.E. Cingolani (Argentina)

119

A cation non-selective channel induced by extracellular ATP in macrophages and phagocytic cells of the thymic reticulum

R. Coutinho-Silva, L.A. Alves, W. Savino and P.M. Persechini (Brazil)

125

Chloride channels in excised membrane patches from human platelets: effect of intracellular calcium

A.B. MacKenzie and M.P. Mahaut-Smith (UK)

131

Cardiac Na^+ pump current-voltage relationships at various transmembrane gradients of the pumped cations

H.G. Glitsch, W. Schwarz and A. Tappe (Germany)

137

Gramicidin channel-induced lipid membrane deformation energy: influence of chain length and boundary conditions

A. Ring (Sweden)

147

The phosphorus-31 spectra of dielectrophoretically reoriented tubules in the H _{II} phase of DOPE <i>P. Osman and B. Cornell (Australia)</i>	160	Saturable P-glycoprotein kinetics assayed by fluorescence studies of drug efflux from suspended human KB8-5 cells <i>R.I. Ghauharali, H.V. Westerhoff, H. Dekker and J. Lankelma (The Netherlands)</i>	213
Kinetics of phospholipid membrane fusion induced by surfactant apoproteins A and B <i>F.R. Poulain, S. Nir and S. Hawgood (USA, Israel)</i>	169	Association of polyene antibiotics with sterol-free lipid membranes: I. Hydrophobic binding of filipin to dimyristoylphosphatidylcholine bilayers <i>J. Milhaud, J.M. Lancelin, B. Michels and A. Blume (France, Germany)</i>	223
Effects of glucose and its oligomers on the stability of freeze-dried liposomes <i>T. Suzuki, H. Komatsu and K. Miyajima (Japan)</i>	176	Characterisation of penicillin-G uptake in rabbit small-intestinal brush-border membrane vesicles <i>J.F. Poschet, S.M. Hammond and P.D. Fairclough (UK)</i>	233
Preparation and characterization of conjugates of (modified) human serum albumin and liposomes: drug carriers with an intrinsic anti-HIV activity <i>J.A.A.M. Kamps, P.J. Swart, H.W.M. Morselt, R. Pauwels, M.-P. De Béthune, E. De Clercq, D.K.F. Meijer and G.L. Scherphof (The Netherlands, Belgium)</i>	183	Small concentrations of alamethicin induce a cubic phase in bulk phosphatidylethanolamine mixtures <i>S.L. Keller, S.M. Gruner and K. Gawrisch (USA)</i>	241
Caffeine inhibits Ca ²⁺ uptake by subplasmalemmal calcium stores ('alveolar sacs') isolated from <i>Paramecium</i> cells <i>S. Länge, J.-D. Wissmann and H. Plattner (Germany)</i>	191	The influence of merocyanine 540 and protoporphyrin on physicochemical properties of the erythrocyte membrane <i>J.W.M. Lagerberg, M. Williams, A.C.E. Moor, A. Brand, J. Van der Zee, T.M.A.R. Dubbelman and J. VanSteveninck (The Netherlands)</i>	247
Fluorescent styryl dyes of the RH series affect a potential drop on the membrane/solution boundary <i>D.Yu. Malkov and V.S. Sokolov (Russia)</i>	197	<i>Cumulative Contents, Vol. 1278</i>	255
The role of efflux systems and the cell envelope in fluorescence changes of the lipophilic cation 2-(4-dimethylaminostyryl)-1-ethylpyridinium in <i>Escherichia coli</i> <i>E.G. Sedgwick and P.D. Bragg (Canada)</i>	205	<i>Author Index</i>	257