



CHEMISTRY AND PHYSICS OF LIPIDS

AUTHOR INFORMATION PACK

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DESCRIPTION

Chemistry and Physics of Lipids publishes research papers and review articles on **chemical** and **physical** aspects of **lipids** with primary emphasis on the relationship of these properties to **biological functions** and to **biomedical applications**.

Accordingly, the journal covers: advances in synthetic and analytical lipid methodology; mass-spectrometry of lipids; chemical and physical characterisation of isolated structures; thermodynamics, phase behaviour, topology and dynamics of lipid assemblies; physicochemical studies into lipid-lipid and lipid-protein interactions in lipoproteins and in natural and model membranes; movement of lipids within, across and between membranes; intracellular lipid transfer; structure-function relationships and the nature of lipid-derived second messengers; chemical, physical and functional alterations of lipids induced by free radicals; enzymatic and non-enzymatic mechanisms of lipid peroxidation in cells, tissues, biofluids; oxidative lipidomics; and the role of lipids in the regulation of membrane-dependent biological processes.

Reviews, full articles and short communications will be considered for publication in each issue. Special Issues will consist of invited contributions organized and edited to cover specific themes.

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Lipid signalling, sphingolipids.

Grant Hatch, Winnipeg, Manitoba, Canada
Phospholipid, lipid and lipoprotein metabolism

Heiko Heerklotz, Toronto, Ontario, Canada

Daniel Huster, Leipzig, Germany
(Bio-)membranes, NMR, membrane structure, membrane proteins.

Ken Jacobson, Chapel Hill, North Carolina, USA
Membrane domains, lipid rafts, lateral mobility, super-resolution microscopy.

John Katsaras, Oak Ridge, Tennessee, USA
Biomembranes; MD simulations; X-ray and neutron scattering

Paavo Kinnunen, Espoo, Finland
Lipid biophysics, oxidized phospholipids, lipid-protein interactions, fluorescence spectroscopy, lipid monolayers.

Michael M. Kozlov, Tel Aviv, Israel
Lipid membranes, membrane fusion, membrane fission, membrane curvature, membrane elasticity.

Maria Teresa Lamy, São Paulo, Brazil

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Fundamental properties of lipid bilayers, especially mechanical moduli, structure, simulations and theory

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Ned Porter, Nashville, Tennessee, USA
Lipid oxidation, free radical mechanisms, mass spectrometry.

Ruth Prassl, Graz, Austria

Liposomes, lipoproteins, nanomedicine, biophysical techniques

Manuel Prieto, Lisbon, Portugal

Lipid phase diagrams and lipid domains (rafts), Fluorescence (FRET) and fluorescence microscopy (FCS and FLIM), Lipid-protein interaction, Ceramides, Ion channels, Amyloid fiber formation.

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