



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.

AUDIENCE

Biochemists, biophysicists, chemists, physical chemists, molecular and cellular biologists.

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Arne Gericke, Worcester, Massachusetts, USA

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Juan Carmelo Gómez Fernández, Murcia, Spain

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Sphingolipids, sphingomyelinases, bacterial phospholipases C, ceramide, diacylglycerol, detergents, infrared spectroscopy.

Miriam Greenberg, Detroit, Michigan, USA

Xianlin Han, Orlando, Florida, USA

Lipidomics, mass spectrometry, lipid metabolism, neurodegeneration, metabolic syndrome.

Yusuf Hannun, Stony Brook, New York, USA

Lipid signalling, sphingolipids.

Grant Hatch, Winnipeg, Manitoba, Canada

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(Bio-)membranes, NMR, membrane structure, membrane proteins.

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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

Dov Lichtenberg, Tel Aviv, Israel

Oxidative stress and antioxidants, Phospholipid peroxidation, Self-assembly of mixtures of amphiphiles in aqueous solutions

Karl Lohner, Graz, Austria

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Sylvio May, Fargo, North Dakota, USA

Modeling, thermodynamics, Poisson-Boltzmann, electrostatics, membrane elasticity, membrane-biopolymer interactions.

Joel Morrisett, Houston, Texas, USA

Lipids and atherosclerotic plaques, lipid regulation of vascular calcification, lipid imaging.

Ole Mouritsen, Odense, Denmark

Lipid bilayers, physical properties, phase equilibria, membrane modeling and simulation, lipid domains, cholesterol, lipid-protein interactions, liposomes and drug delivery.

John Nagle, Pittsburgh, Pennsylvania, USA

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

Tommy Nylander, Lund, Sweden

Interfacial behaviour of surface-active molecule, Molecules of biological origin, Lipid non-lamellar liquid crystalline phases, Biomimetic membranes, Interfacial techniques and Scattering and diffraction techniques using x-rays and neutrons

Ned Porter, Nashville, Tennessee, USA

Lipid oxidation, free radical mechanisms, mass spectrometry.

Manuel Prieto, Lisboa, Portugal

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

Ayyalusamy Ramamoorthy, Ann Arbor, Michigan, USA

Membrane protein, structure, amyloids, antimicrobial peptides, NMR

Michael Schlame, New York, New York, USA

Biomembranes, cardiolipin, mitochondria, phospholipid analysis, phospholipid metabolism.

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Membrane Biophysics

J. Peter Slotte, Turku, Finland

Membrane domains, sphingolipids, sterol/lipid interaction, physical chemistry of lipids, fluorescence spectroscopy.

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Protein crystallography, protein-lipid interactions, lipid signaling, lipid trafficking, lipids in disease.

Sarah Veatch, Michigan, Michigan, USA

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Lipidomics, PI signalling.

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3. Oguro, M., Imahiro, S., Saito, S., Nakashizuka, T., 2015. Mortality data for Japanese oak wilt disease and surrounding forest compositions. *Mendeley Data*, v1. <http://dx.doi.org/10.17632/xwj98nb39r.1>

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