DESCRIPTION

*BBA Biomembranes* has its main focus on membrane structure, function and biomolecular organization, membrane proteins, receptors, channels and anchors, fluidity and composition, model membranes and liposomes, membrane surface studies and ligand interactions, transport studies, and membrane dynamics.

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-antimicrobial peptides -peptide-membrane interaction -lipopolysaccharide -antibiotic resistance -antimicrobial/anti-endotoxin activities -pore-forming peptides
Isabelle Marcotte, Université du Quebec à Montréal (UQAM), Montreal, Quebec, Canada
1) Biological solid-state NMR 2) Model membranes 3) Lipid interactions 4) NMR of intact cells 5) Protein structure
Katsumi Matsuzaki, Kyoto University, Kyoto, Japan
Peptide (protein)-lipid interaction, Antimicrobial peptides, Amyloids, Transmembrane helices

**Sergei Noskov**, University of Calgary, Calgary, Alberta, Canada
Theoretical Biophysics, Molecular Dynamics Simulations, Ion Channels and Secondary Transporters, Statistical Mechanics

**Jesus Perez-Gil**, Universidad Complutense de Madrid, Madrid, Spain
Pulmonary surfactant, lipid-protein interactions, monolayer and bilayer membrane models, membrane domains and structure, membrane protein structure

**Elmar Prenner**, University of Calgary, Calgary, Alberta, Canada
Biomimetic membranes, lateral membrane organization, Biophysical methods, Metal-membrane interactions, pulmonary drug delivery, nanoparticles

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

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Membrane protein, structure, amyloids, antimicrobial peptides, NMR

**Mark Sansom**, University of Oxford, Oxford, UK
Model membranes, biological solid-state NMR, peptide-lipid interactions, membrane-active peptides

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Peptide-membrane interaction, peptide-peptide interaction within the membrane, virus-cell fusion, membrane fusion, antimicrobial peptides, molecular recognition within the membrane, innate immunity peptides, fluorescent studies

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Membrane organisation, lipid rafts, membrane traffic, cell polarity

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Membrane proteins, protein trafficking, bioinformatics.

**Tony Watts**, University of Oxford, Oxford, UK

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Membrane Proteins, Membrane Protein Folding and Assembly, Lipid-Protein Interactions, Lipid Bilayer Structure and Biophysics

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Antimicrobial peptide, Pore forming peptide, Membrane active peptides, Cell penetrating peptide, Antiviral peptide

**Christopher Yip**, University of Toronto, Toronto, Ontario, Canada
Scanning probe microscopy, molecular dynamics, spectroscopy, single molecule biophysics, computational biophysics

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Antimicrobial peptides; membrane electrostatics; aminosterols
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