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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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membrane proteins, computational structural biology, drug discovery, transporters, channels.

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Secondary multidrug transport, E. coli signal recognition particle system, Membrane protein targeting in E. coli, Mechanism of intra-membrane proteolysis

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Membrane Protein Structures Calcium Channels Proton Channels Transmembrane receptors Lipid nanodiscs Solution NMR

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Mitochondrial channels, mitochondria, ceramide, apoptosis, Bax

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Peptides, proton channel, viroporins

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Biomembranes, NMR, polyunsaturated lipids, DHA, GPCR, rhodopsin, cannabinoid receptors.

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membrane receptors, membrane structure, membrane protein interactions, antimicrobial peptides, fluorescence methods

Huey W. Huang, Rice University, Houston, Texas, USA

Membrane-active peptides, membrane fusion, diffraction techniques

Kenneth Jacobson, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), Bethesda, Maryland, USA

Medicinal chemistry, Adenosine receptor, P2Y receptor, G protein-coupled receptor

Shibo Jiang, Fudan University, Shanghai, China

Valerian E. Kagan, University of Pittsburgh, Pittsburgh, Pennsylvania, USA

Free Radical Toxicology, Antioxidants and their Mechanisms, Oxidative Stress and Apoptosis

Shuwen Liu, Southern Medical University, Guangzhou, China

virus entry, virus-cell membrane fusion, peptides, immunopharmacology, inflammation, autophagy

Maria Luisa Mangoni, Università di Roma "La Sapienza", Rome, Italy

-antimicrobial peptides -peptide-membrane interaction -lipopolysaccharide -antibiotic resistance -antimicrobial/anti-endotoxin activities -pore-forming peptides

Isabelle Marcotte, Université du Québec 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

Manuel Prieto, Centro Quimica Fisica Molecular, 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, University of Michigan, Ann Arbor, Michigan, USA

Membrane protein, structure, amyloids, antimicrobial peptides, NMR

Mark Sansom, University of Oxford, Oxford, UK

Frances Separovic, University of Melbourne, Melbourne, Victoria, Australia

Model membranes, biological solid-state NMR, peptide-lipid interactions, membrane-active peptides

Yechezkel Shai, Weizmann Institute of Science, Rehovot, Israel

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

Kai Simons, Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG), Dresden, Germany

Membrane organisation, lipid rafts, membrane traffic, cell polarity

Stephen Sligar, University of Illinois at Urbana-Champaign, Urbana, Illinois, USA

Lukas Tamm, Virginia Commonwealth University, Charlottesville, Virginia, USA

Gunnar von Heijne, Stockholms Universitet, Stockholm, Sweden

Membrane proteins, protein trafficking, bioinformatics.

Tony Watts, University of Oxford, Oxford, UK

Stephen H. White, University of California at Irvine, Irvine, California, USA

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

Bill Wimley, Tulane University, New Orleans, Louisiana, USA

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

Michael Zasloff, Georgetown University Hospital, Washington, District of Columbia, USA

Antimicrobial peptides; membrane electrostatics; aminosterols

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[2] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

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[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

Reference to a website:

[4] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

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