

“LUIS A. BAGATOLLI Conferences”

**Frontiers in Cellular Biophysics
(2nd edition)**

CALL FOR PAPERS

Biomembranes as a complex system: Beyond the current models

Santiago del Estero, Argentina,

2-4 August 2023

The meeting is addressed to commemorate the memory of Luis Bagatolli discussing emergent and challenging topics about biomembranes. Contributions on the properties arising from the lipid and protein complexity of living membranes, the role of water in this complexity and the link between metabolic events and the mechanical, chemical and electrical properties of cell membranes are welcome.

The aim is to join specialists in a wide range of methodologies from experimental and computational resources to modeling new membrane models that may reflect more realistically the role of the membrane in complex crowded cell systems.

The sessions during nearly three days will be dedicated to extensive and enthusiastic discussions with invited speakers and attendees.

All attendees are required to pre-register for the meeting and, in principle, arrange their own lodging and travel. However, this preliminary call for contributions is intended to prepare a preliminary program that could help to apply for funds for travelling and lodging to national and international agencies. Therefore, it would be most welcome to receive your registration and a tentative title of your contribution within these suggested topics to the mail contact: (Dr. Anibal Disalvo) clabsde2023@gmail.com

Cell membrane theory and coacervate theory: discrepancies and coincidences.

The cell as a complex crowded system.

Role of water in cell functions.

New models of water in restricted environments

Water in biological surfaces: membranes and proteins.

Thermodynamic treatment of cells.

Mecano-chemical coupling in biomimetic systems.

Rheology of monolayers and bilayers.

Cell topology and function.

Cytosol-membrane coupling

Reactive membranes: role of interphase properties in signaling.

Surface enzymatic activity.

Anhydrobiosis and hydric stress: what can be learned for water functional meaning.

The Organizing Committee will contact the registered participants in order to optimize the exposure and discussion sessions.

Dr. E. Anibal Disalvo
Coordinator

Organizing Committee

E Anibal Disalvo

Gerardo Fidelio

Natalia Wilke

Maria A, Frias

Guillermo Montich