Special Issue

Toolbox Development for Cellular Endomembrane Studies in the Living System: Fluorescence Probes and Advanced Imaging Strategies

Message from the Guest Editors

Emerging advanced optical microscopy techniques have become indispensable tools for insights into the cellular endomembrane, which are capable of visualizing structures down to the subcellular level. Fluorescent probes possessing excellent optical properties play great roles in different microscopies, which largely promote the advancement of optical microscopy techniques. This Special Issue aims to investigate new optical probes and imaging techniques that can advance the field of optical diffraction-limited and sub-diffraction microscopy and its biological applications.Topics including, but not limited to:

- Novel fluorescent probes or optical materials or fluorescent proteins for optical diffraction-limited and sub-diffraction microscopy;
- Design and preparation for quantum dots, carbon dots, polymer dots, upconversion nanomaterials, and other nanostructured materials fulfilling the criteria for a probe for optical microscopy;
- Biological label strategy for fluorescent/optical probes;
- Optical imaging techniques of biological membrane structures.

Guest Editors

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Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375). *Membranes* is an international, peer-reviewed open accessjournal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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