Special Issue

Advances in Erythrocytes Membrane Research

Message from the Guest Editors

The red blood cell (RBC) has long been one of the most studied type of cells. Research on its membrane was the foundation for the spectrin-based membrane skeleton model and for the understanding of the model's structure and function. In recent years, scientific and technological advancements have led to a renewal in erythrocyte membrane investigation, ranging from basic research to clinical hematology, expanding the knowledge on RBC membrane physiology and biomedical innovations. For instance, next-generation sequencing methodologies hold potential as new diagnostics tools for erythrocyte membrane diseases, which are rare and heterogeneous disorders with a wide-range of clinical presentations. Furthermore, an increasing interest in RBCs is emerging with the possibility of using them as drug/molecule carriers/delivery systems, based on their inherent biocompatibility and lifespan. Modifying erythrocyte membranes by coating them with nanoparticles, imaging, or therapeutic agents has unlocked new insights into diagnosis, drug delivery, and targeted immunotherapy, namely for cancer treatment.

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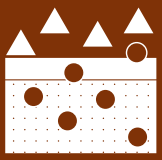

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Message from the Editor-in-Chief

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.

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