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Bioprocessing with Membranes: Filtration and Chromatography

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Message from the Guest Editor

Membrane filtration has been widely considered a useful separation technique, mainly due to the advantages it presents when compared to other separation techniques, both economically and regarding the quality of the recovered products.

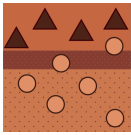
Chromatography is a fine-tuning separation method important for many bioprocesses, in which specific physical–chemical and affinity properties of the target products and of the respective impurities are addressed to meet effective separation and high purity in a final product when required. Membranes have been used as chromatographic solid matrices (e.g., adsorbers), particularly for the purification and polishing steps of large biomolecules, such as biopharmaceuticals. Which new membrane adsorbers are being developed or need development? Which novelties are proposed for membrane module design? Modeling and applications of continuous chromatography operation and the outputs of membrane column arrangements would probably be very insightful.

This Special Issue aims to cover the latest developments and innovations regarding membrane filtration and membrane chromatography operation and their systems for bioprocessing.



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Special Issue



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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 access journal 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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