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## Recent Trends and Technological Developments in Biopharmaceuticals Manufacturing

Guest Editors:

**Dr. Augusto Quaresma  
Henriques Pedro**

**Prof. Dr. Mara G. Freire**

**Dr. Fani Pereira de Sousa**

**Dr. Patrícia Alexandra Nunes  
Pereira**

Deadline for manuscript  
submissions:

**closed (30 July 2021)**

### Message from the Guest Editors

Dear Colleagues,

The biopharmaceuticals brought enormous benefits to the treatment of life-threatening human diseases. Progress in this direction have resulted from the application of novel technologies in the upstream stage (high-throughput, single-use devices, statistical optimization of media and fermentation conditions, QbD, and continuous processing), while at the downstream level, chromatography has evolved through the development of new resins and ligands, coupled with advances in process modelling, operating and control strategies.

An emerging trend is the application of alternative solvents such as ionic liquids and deep eutectic solvents, in which their structure and physicochemical properties can be tuned to address unmet needs in (bio)pharmaceutical research. These compounds may be derived from natural and renewable sources and hold great promise in the development of efficient, sustainable and cost-effective biopharmaceuticals purification processes.

This Special Issue of MDPI *Life* aims to provide the latest progresses achieved in pharmaceuticals bioprocessing. We welcome submissions of original research, comprehensive reviews and perspectives.



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### **Prof. Dr. Lluís Ribas de Pouplana**

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

## Message from the Editor-in-Chief

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*Life* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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