## Special Issue

## Advances in Biotechnological Processes: The Challenges of Accurate Analytical Methods

## Message from the Guest Editors

Biotechnological processes are intrinsically correlated to the sustainable future of the world, for instance microalgae can mitigate CO2 and produce protein and lipids simultaneously. Further, fungi, bacteria, and yeasts can produce compounds of interest. However, these processes are quite complex; thus, it is fundamental to apply accurate analytical methods to control them. These methods are constantly developed and improved. The COVID-19 pandemic showed the need to quickly develop fast, reliable, and low-cost detection methods. Classic methods, such as spectrometry, and plate count, among others, are still useful; nevertheless, RMN and mass spectrometry, among others mainly related to omics, provide new information, giving a deeper comprehension of processes. Therefore, this Special Issue lays out biotechnological process control, in particular the analytical methods applied to control them.

## **Guest Editors**

Dr. Cristiano J. De Andrade

Chemical and Food Engineering Department (EQA), Federal University of Santa Catarina (UFSC), Florianópolis 88040-900, Brazil

Dr. Lidiane Maria Andrade

Dempster MS Lab, Chemical Engineering Department of Polytechnic School, University of São Paulo (USP), R. do Lago, 250-Butantã, São Paulo 05338-110, Brazil

### Deadline for manuscript submissions

20 August 2025



# Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



mdpi.com/si/230122

Applied Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 applsci@mdpi.com

mdpi.com/journal/applsci





# Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



## **About the Journal**

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

## **Author Benefits**

## **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

## **High Visibility:**

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

