

## Special Issue

# New Challenges into Pharmacology

### Message from the Guest Editors

Pharmacology is evolving rapidly in response to the increasing complexity of human diseases, the growing demand for precision medicine, and the integration of multidisciplinary approaches. This Special Issue, *New Challenges into Pharmacology*, aims to explore recent breakthroughs and ongoing challenges across a broad spectrum of pharmacological research—from molecular mechanisms and drug discovery to translational and data-driven approaches. We invite submissions that address innovative strategies in neuropharmacology, cardiopharmacology, immunopharmacology, oncology and metabolic disorders, as well as plant-based and natural product pharmacology. Topics of interest include, but are not limited to, oxidative stress and redox biology, drug repurposing, biostatistics and data science in pharmacological modeling, bioactive compounds (e.g., flavonoids, polyphenols, nutraceuticals), and systems pharmacology. Emphasis will also be placed on emerging technologies such as AI-assisted drug discovery, organ-on-chip systems, and personalized therapeutic design.

### Guest Editors

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### Deadline for manuscript submissions

20 May 2026



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### 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.

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### Editor-in-Chief

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