

Special Issue

Current and Recent Advances in Natural Products-Based Drug Discovery, Design and Development

Message from the Guest Editors

The successful story of natural products in the discovery and development of medicines is still being written and forecasted to continue in the future. Not necessarily that the final approved drug is a natural product, but in many cases, it could also be a semi-synthetic compound, a modified derivative, an analog of a natural product, or even a purely synthetic compound that mimics a natural product or inspired by a natural product. In principle, natural products-based drug discovery design and development comprise several steps that involve, but are not limited to:

- Extraction, isolation, characterization, and biological evaluation of natural products or metabolites.
- Design, synthesis, and evaluation of synthetic or semi-synthetic derivative or analogs.
- Development of purely synthetic molecules that mimic natural products.

In addition, natural products-based drug discovery design and development encompass *in vitro* and/or *in silico* study of molecular mechanisms and/or target identification, development of synthetic routes to access interesting bioactive natural products, and several other related areas to drug discovery and development.

Guest Editors

Prof. Dr. Ahmed H. E. Hassan

Faculty of Pharmacy, Mansoura University, Mansoura, Egypt

Dr. Rhitajit Sarkar

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), Bethesda, MD, USA

Prof. Dr. Marta H. Henriques

Department of Agricultural Sciences and Technologies—Food Industries, Agriculture School, Polytechnic University of Coimbra, Coimbra, Portugal

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

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

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