

## Tentative Outline

### Special Thematic Issue for the journal *Current Pharmaceutical Design*

#### Title of the Thematic Issue: Recent Contributions of Analytical Chemistry to the Pharmaceutical Sciences

*Guest Editors: Ratiram Gomaji Chaudhary and Martin Federico Desimone*

• **Scope of the Thematic Issue:** The aim of this special issue is to describe recent advances and innovative strategies applied in the development of analytical methods in order to contribute to the improvement of pharmaceutical sciences. Nowadays, novel formulations, therapeutics agents and biotechnological products are being continuously developed. Indeed, nanotechnology is widespread in the pharmaceutical industry improving the delivery of drugs and the development of vaccines. These requires accurate analytical methods with limits of detection compatible with the nanoscale. In parallel, complex formulations possess great potential. For example, medicinal plants found very promising applications but also requires a careful characterization of their composition. These are only few examples of the topics covered in this special issue.

**Keywords:** analytical chemistry, pharmaceutical sciences, novel formulations, nanotechnology, biotechnology, medicinal plants

#### Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Strategies to evaluate the quality of, nanotechnological, biotechnological and herbal products
- Advanced Analytical Techniques
- Nanosensors and biosensors
- Metal-organic frameworks-based sensors
- Characterization of the phase behavior of organic molecules
- Chromatography, spectroscopy, mass spectrometry and electrochemistry for Pharmaceutical Analysis
- others.

#### Tentative titles of the articles and list of contributors:

Tentative titles of the articles and list of contributors with their names, designations, addresses and email addresses should be provided.

Elmansi, Heba M. Mansoura University, Mansoura, Egypt. Nanoparticles applications in Pharmaceutics

Gokhan Zengin. Selçuk Üniversitesi, Konya, Turkey. Biological and pharmacological properties of myrtenol: a review.

Khaldun M. Al Azzam. Al-Ahliyya Amman University, Amman, Jordan. Chromatography for Pharmaceutical Analysis: Recent Advances.

Mahmoud Rafieian-Kopaei. Iran. A comprehensive review on the most important nano-hydrogel-based plant extracts and metabolites for skin diseases.

Ivo Rietveld. Faculté de Pharmacie, Université de Paris, 4 avenue de l'observatoire, 75006 Paris, France. The phase behaviour of organic molecules as a function of temperature and pressure.

Bengi Uslu. Ankara Üniversitesi, Ankara, Turkey. Metal-organic frameworks based electrochemical nanosensors for drug analysis

Ratiram Chaudhary. P.G. Department of Chemistry, S. K. Porwal College. India. Advanced Analytical Techniques Involved in Nanomaterials Identification for Clinical Inhibition of Pathogens and Cancer Treatment.

Fresia Melina Silva Sofras and Martin Federico Desimone. Universidad de Buenos Aires. Argentina. Entourage effect and analytical chemistry: chromatography as a tool in the analysis of the secondary metabolism of cannabis.

**Schedule:**

- ✧ Thematic issue submission deadline: Aug 01, 2022

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