





an Open Access Journal by MDPI

# **Exploring Cancer Molecular Mechanisms with AI**

Guest Editors:

### Dr. Juan Jose Lozano

Bioinformatics Platform, Centro de Investigación Biomédica en Red Enfermedades Hepáticas y Digestivas (CIBEREHD), Instituto de Salud Carlos III, Monforte de Lemos 3-5, Pabellón nº 11, 8029 Madrid, Spain

### Dr. Julia Sidorova

Bioinformatics Platform, Centro de Investigación Biomédica en Red Enfermedades Hepáticas y Digestivas (CIBEREHD), Instituto de Salud Carlos III, Monforte de Lemos 3-5, Pabellón nº 11, 8029 Madrid, Spain

Deadline for manuscript submissions:

31 December 2024

# **Message from the Guest Editors**

Dear Colleagues,

Deep learning, a new powerful paradigm of artificial intelligence, has revolutionized clinical bioinformatics, biological research and medicinal practice making it possible not only to improve the specificity/sensitivity, but also to discover the molecular signatures for the diseases where no statistical biomarker was previously available, shed light on the mechanisms behind pathology, and stratify populations regarding the drug effects and treatment response. The special issue welcomes the submissions reporting advances in understanding molecular mechanisms of cancer obtained via deep learning with any type of attributes: clinicopathological, transcriptomics data including single cell, mutational data, features with structural information and physicochemical properties. The scientific contributions with a potential impact in clinical practice in oncology are expected to be a result of interdisciplinary research, as for example, straddling the intersection of artificial intelligence, genomics, and drug design. We are looking forward to reading your articles and will organize a speedy review with accepted articles being published on the ongoing basis.













an Open Access Journal by MDPI

### **Editor-in-Chief**

#### Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

## Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

### **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), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

### **Contact Us**