



## Mechanistic Effects of Human Variants Associated with Addiction

Guest Editor:

**Prof. Dr. Emil Alexov**

Computational Biophysics and  
Bioinformatics, Department of  
Physics, Clemson University,  
Clemson, SC 29634, USA

Deadline for manuscript  
submissions:

**closed (30 September 2021)**

### Message from the Guest Editor

Opioid medications are useful for treating acute pain; however, over the past two decades their use has been liberalized and their addictive potential underestimated, which has resulted in approximately 116 million people with opioid-prescription dependency. Opioid addiction comes in many forms, and it is a complex disease resulting from variants in multiple genes with relatively small effects, along with environmental and developmental factors. Thus, a genetic variant found in a given subset of an addicted population may not be found in an addicted population of a different background.

This Special Issue targets all aspects of opioid addiction, including factors as age, gender, race, and ethnicity, with a special emphasis on the genetic component contributing to addiction. Works reporting new variants associated with elevated opioid addiction risk are welcome. Investigations revealing mechanistical effects and the functional impact of these addiction-linked variants are particularly encouraged. Since opioid addiction is a complex disease, we are looking to receive papers addressing the impact of variants on the networks of interactions involving multiple genes.





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

---

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI