







an Open Access Journal by MDPI

# **Recent Progress of Opioid Research**

Guest Editors:

### Dr. Soichiro Ide

Addictive Substance Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan

### Dr. Kazutaka Ikeda

Addictive Substance Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan

Deadline for manuscript submissions: **closed (20 July 2023)** 

# **Message from the Guest Editors**

The endogenous opioid system plays an important role in the regulation of pain sensitivity and stress responses. In addition, many prescription opioids are prescribed to treat moderate to severe pain. Moreover, in addition to their useful properties as analgesics, prescription opioids have a variety of side effects, including constipation and respiratory depression as well as the formation of tolerance and dependence. Opioid use disorders caused by prolonged opioid use and overdose have become a major social problem in recent years. On the other hand, the detailed mechanisms of these effects and side effects as well as the mechanisms of pain, dependence, and emotional regulation by endogenous opioids remain unclear. In particular, most prescription opioid analgesics target the  $\mu$  opioid receptor, but they also have effects on the  $\delta$  and  $\kappa$  subtypes, and recently, effects via subtypes other than  $\mu$  have attracted attention and are being investigated as targets for analgesics and for the discovery of other drugs. In this Special Issue, we would like to highlight various recent studies related to opioids.













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 (Organic Chemistry)

### **Contact Us**