



life



an Open Access Journal by MDPI

Molecular Mechanisms in Pain Signaling Pathways

Guest Editors:

Dr. Boris Krylov

Head of the Laboratory of
Physiology of Excitable
Membranes, Pavlov Institute of
Physiology of the Russian
Academy of Sciences, 199034
Saint Petersburg, Russia

krylov@infran.ru

Dr. Ke Ma

Medicine School, Shanghai
Jiaotong University, Shanghai
200240, China

marke72@163.com

Deadline for manuscript
submissions:

30 November 2023

Message from the Guest Editors

Dear Colleagues,

The medicinal treatment of chronic pain of various etiologies requires the use of opiates and/or opioids, which evoke adverse side effects at the organismal level and are highly addictive. For this reason, the world is experiencing an opioid crisis, representing one of the worst public health crises in history. When pain as a sensation loses its informational and protective function and becomes chronic, this pathology can be corrected only by drug administration. Regrettably, there are no safe and effective analgesics that can replace opiates in the arsenal of clinical medicine.

A possible approach to help solve this challenging problem is to modulate the functional activity of ion channels encoding the nociceptive information. The desire to specifically eliminate this high-frequency impulse activity component of polymodal nociceptors, leaving the signals of other modalities intact, forces us to look for novel approaches to the creation of fundamentally new, effective, and safe drugs that can replace opiates and opioids in clinical practice.



mdpi.com/si/133124

Special issue



an Open Access Journal by MDPI

Editor-in-Chief

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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](#), [CAPlus / SciFinder](#), [AGRIS](#), and other databases.

Journal Rank: [JCR - Q2 \(Biology\)](#)

Contact Us

Life
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/life
life@mdpi.com
[@Life_MDPI](https://twitter.com/Life_MDPI)