

Special Issue

Sigma-1 Receptor: Signaling, Functions and Therapeutic Potential

Message from the Guest Editors

You are invited to contribute to the Special Issue of *IJMS* entitled "Sigma-1 Receptor: Signaling, Functions and Therapeutic Potential". Sigma 1R, a non-opioid intracellular receptor located on the endoplasmic reticulum, binds a variety of ligands, the majority of which are amines. Synthetic Sigma-1R agonists include antidepressants (e.g., fluvoxamine), antipsychotics (e.g., haloperidol), and drugs of abuse (e.g., cocaine, methamphetamine). The endogenous Sigma-1R agonist remained elusive. In the last 15 years, amines such as dimethyl tryptamine (DMT) and choline, neurosteroids, and bioactive sphingolipids were reported to act as endogenous Sigma-1R agonists. Sigma-1R has complex signaling mechanisms and a wide variety of physiological and pathophysiological roles. This Special Issue of *IJMS* is intended to provide a comprehensive synopsis of current research on Sigma-1R signaling, cellular and molecular mechanisms, physiologic roles, regulation, and therapeutic potential. Submissions of original research, including in vitro and in vivo studies and comprehensive review articles related to any of these aspects, are invited.

Guest Editors

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Deadline for manuscript submissions

28 February 2026



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/254334

*International Journal of
Molecular Sciences*
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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.

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