Special Issue

Cell-Penetrating Peptides: From Basic Research to Application in Human Therapies

Message from the Guest Editors

Cell-penetrating peptides (CPPs) are defined as peptides usually containing less than 30 residues and characterized by a cationic and amphipathic character, which show a remarkable capability to penetrate membranes' lipid bilayer. These peculiar features confer to these molecules the ability to be internalized within prokaryotic and eukaryotic cells without damaging or killing them. As so far, this field is still rich with opportunities and open to ideas and applications yet to be uncovered by researchers with different backgrounds.

The aim of this Special Issue of Cells is to provide a panorama on the recent findings regarding the functional, structural characterization of new CPPs both from natural and rationale design sources, the use of CPPs entailing unusual or non-natural amino acids or with peculiar structures (e.g., cyclic peptides), the application of CPPs in targeted drug delivery and imaging, and mechanisms underlying internalization.

For these reasons, we warmly invite expert scientists with their original unpublished new findings and reviews to contribute to this topic.

Guest Editors

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Deadline for manuscript submissions

closed (25 March 2023)



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About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. Cells encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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