Special Issue

Transport Mechanisms of Mitochondrial Membrane Proteins

Message from the Guest Editors

A Special Issue on "Transport Mechanisms of Mitochondrial Membrane Proteins" is being prepared for the International Journal of Molecular Sciences. Mitochondrial carriers constitute a protein superfamily called the solute carrier family 25 (SLC25) in higher animals. These proteins transport a wide variety of substrates, such as nucleotides, ions, protons. metabolites with carboxylic groups, amino acids and cofactors, across the mitochondrial inner membrane. All mitochondrial carriers have characteristic conserved sequence motifs and six transmembrane a-helices. The mitochondrial ADP/ATP carrier is an extensively studied member of this family that exchanges ATP produced in mitochondria for cytosolic ADP. Transport mechanisms of various mitochondrial carriers have been proposed based on transport kinetics, inhibitor studies, modes of transport, mutagenesis, structural analyses and dynamics. Original manuscripts and reviews treating different aspects of the transport mechanism of the ADP/ATP carrier and other mitochondrial transporters are welcome.

Guest Editors

Prof. Dr. Ferdinando Palmieri

Department of Biosciences, Biotechnology and Biopharmaceutics, University of Bari, 70125 Bari, Italy

Dr. Magnus Monné

Department of Sciences, University of Basilicata, 85100 Potenza, Italy

Deadline for manuscript submissions

closed (15 April 2024)



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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.

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

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