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# **Transport Mechanisms of Mitochondrial Membrane Proteins**

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Deadline for manuscript submissions: closed (15 April 2024)

## **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.

**Special**sue



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### Message from the Editor-in-Chief

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