## **Special Issue**

## New Advancement in Membrane Transport Proteins

## Message from the Guest Editor

Membrane transport systems including the solute carriers (SLC) are a key element for cell life since they regulated the flux of nutrients, metabolites, ions, neurotransmitters, toxic compounds and drugs through cell and organelles membranes. Among membrane proteins (26% of the human genome), transporters, account for 10 %. Derangements or malfunctioning of membrane transport systems can cause a wide range of diseases. In spite of their importance, the structure and function of many of these proteins are still unknown because they are very hydrophobic and usually are present in low amounts in the membrane. In recent vears single particle cryoEM revolutionized structure determination of membrane transport proteins. However, the study of a transporter structure is far from its completion because structural dynamics, structure/function characterization and site-specific mutagenesis are required to understand the molecular mechanism and find the link of transporter defects with human pathology. In addition, high-throughput screening technologies for identification and over expression of membrane transport proteins are required to their study in vivo and in vitro.

## **Guest Editor**

Prof. Dr. Etana Padan

Department of Biological Chemistry, The Alexander Silberman Institute of Life Sciences, The Hebrew University of Jerusalem, Edmond J. Safra Campus, Givat Ram, Jerusalem 91904, Israel

## Deadline for manuscript submissions

closed (18 April 2023)



# International Journal of Molecular Sciences

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#### mdpi.com/si/116463

International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

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## Message from the Editor-in-Chief

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### **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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