



an Open Access Journal by MDPI

Recent Advances in Understanding of the Role of Synuclein Family Members in Health and Disease

Guest Editor:

Dr. Natalia Ninkina

School of Biosciences, Cardiff University, Museum Avenue, Cardiff CF10 3AX, UK

Deadline for manuscript submissions: closed (31 December 2022)

Message from the Guest Editor

Extensive studies of α -synuclein function and dysfunction revealed its involvement in multiple normal and aberrant molecular processes and consequently, various effects on the nervous system cell biology. However, certain other types of cells normally express this protein, and they may also be affected by α -synuclein dysfunction and thus contribute to pathological changes in α -synucleinopathies. It would be beneficial to summarise scattered data on these aspects of α -synuclein biology and pathology. Recent studies draw attention to the other two members of the family, b-synuclein and g-synuclein, whose role in homeostasis and pathology is still poorly understood. Three members of the family share many structural properties and have an overlapping pattern of expression and intracellular distribution in the developing and adult nervous system, which point to functional redundancy within the family. However, each synuclein has its own functions unshared with two other synucleins and in some cellular mechanisms and pathways, these functions could be antagonistic rather than synergistic.



mdpi.com/si/112542







an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Felipe Fregni

1. Neuromodulation Center and Center for Clinical Research Learning, Spaulding Rehabilitation Hospital and Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA 2. Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA 02115, USA

Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research. biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q2 (*Medicine (miscellaneous*))

Contact Us

Biomedicines Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/biomedicines biomedicines@mdpi.com X@Biomed_MDPI