Special Issue

Molecular Mechanisms of Stress in Autoimmunity and Psychiatric Disorders

Message from the Guest Editors

It has been well-established that stress can substantially affect the homeostatic regulation of the immune system via the activation of the hypothalamic-pituitary-adrenal (HPA) axis and the release of glucocorticoids (GCs) into the circulation. In turn, GCs act to regulate the activation, proliferation, and trafficking of leukocytes and are thus often used as immunosuppressors in the clinical treatment of inflammatory and autoimmune disorders. Whereas several molecular mechanisms underlying the dysfunction of glucocorticoid receptors due to persistent inflammation or genetic defects have recently been described, further insights into these mechanisms may help to unveil regulatory roles of GCs. to elucidate the etiology of diseases with strong inflammatory components, and to identify therapeutic strategies to overcome GC resistance in a variety of inflammatory diseases. This Special issue of Biomolecules invites manuscripts and reviews which provide molecular and cellular mechanisms underlying the impact of chronic stress on autoimmune and psychiatric disorders. Keywords: autoimmunity; psychiatric disorders; HPA; stress; inflammation

Guest Editors

Prof. Alon Monsonego

Department of Microbiology and Immunology, Faculty of Health Sciences, Zlotowski Neuroscience Center, Regenerative Medicine and Stem Cell Research Center, National Institute for Biotechnology in the Negev, Ben-Gurion University of the Negev, Beer-Sheva, Israel.

Prof. Amit Bar-Or

Department of Neurology and Center for Neuroinflammation and Experimental Therapeutics, University of Pennsylvania, Philadelphia, PA, USA

Deadline for manuscript submissions

closed (30 July 2020)



Biomolecules

an Open Access Journal by MDPI

Impact Factor 4.8 CiteScore 9.2 Indexed in PubMed



mdpi.com/si/24807

Biomolecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomolecules@mdpi.com

mdpi.com/journal/biomolecules





Biomolecules

an Open Access Journal by MDPI

Impact Factor 4.8 CiteScore 9.2 Indexed in PubMed



About the Journal

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in Biomolecules so far. We would be delighted to welcome you as one of our authors.

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

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, MEDLINE, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)

