



Energetic Metabolism Impairment in Brain Dysfunction

Guest Editors:

Dr. Annamaria Cimini

Department of Life, Health and
Environmental Sciences,
Università degli Studi dell'Aquila,
L'Aquila, Italy

Dr. Elisabetta Benedetti

Department of Life, Health and
Environmental Sciences,
University of L'Aquila, L'Aquila,
Italy

Deadline for manuscript
submissions:

closed (31 October 2019)

Message from the Guest Editors

Dear Colleagues,

Alterations in energetic metabolism and redox homeostasis are thought to be central components of neurodegeneration that result in the impairment of important homeostatic processes in neurons. Importantly, both bioenergetics and redox homeostasis are coupled to neuro-glial energetic metabolism. Redox and metabolic homeostasis is carried out by a complex interaction between neurons, glia, and the extracellular microenvironment. Alterations of the neuronal environment and/or genetic mutations of key genes may result in different neurodegenerative conditions. Moreover, energetic metabolism impairment may lead to neurotrophins depletion, resulting in the activation of death pathways and the downregulation of survival pathways.

In summary, the understanding of the complex mechanisms occurring during neurodegeneration, both as a consequence of the interaction of genetic background with the environment and as an alteration of neuron-glia crosstalk, may bring new insight into the complex scenarios of different neurodegenerative diseases and provide a basis for new therapeutic approaches.





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Emmanuel Andrès

Internal Medicine Department,
University Hospital Strasbourg,
67000 Strasbourg, France

Prof. Dr. Kent Doi

Department of Emergency and
Critical Care Medicine, University
of Tokyo, Tokyo 113-8655, Japan

Message from the Editorial Board

There has been an explosion of gene and target based research and therapeutics in the multitude of fields that compose clinical medicine. The *Journal of Clinical Medicine's (JCM)* staff and editorial board are dedicated to providing cutting edge, timely, and peer-reviewed articles covering the diverse subspecialties of clinical medicine. The journal publishes concise, innovative, and exciting research articles as well as clinically significant articles and reviews that are pertinent to the myriad of disciplines within medicine. The articles published are relevant to both primary care physicians and specialists. The journal's full-texts are archived in PubMed Central and indexed in PubMed. Please consider submitting your manuscripts for publication to our journal and check us out on-line!

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, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Medicine, General and Internal) / CiteScore - Q1 (General Medicine)

Contact Us

Journal of Clinical Medicine Editorial
Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/jcm
jcm@mdpi.com
[X@JCM_MDPI](https://twitter.com/JCM_MDPI)