



## Pathogenesis and Molecular Treatment Strategies of Diabetic Neuropathy 2.0

Guest Editor:

**Dr. Kazunori Sango**

Department of Diseases and Infection, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan

Deadline for manuscript submissions:

**closed (30 October 2022)**

### Message from the Guest Editor

Dear Colleagues,

Diabetic peripheral neuropathy (DPN), one of the major chronic complications of diabetes mellitus, is characterized by nerve-length-dependent depletion of peripheral sensory, motor, and autonomic nerve fibers, and its progression can result in serious consequences such as lower limb amputation and lethal arrhythmia. It is recognized that both metabolic and microvascular abnormalities are involved in the development of DPN, but no effective therapies have yet been established. The aim of this Special Issue is to introduce molecular mechanisms of how hyperglycemia and impaired insulin actions lead to DPN, as well as therapeutic strategies based on those mechanisms.

Topics of this Special Issue include, but are not limited to:

- Collateral glucose-utilizing pathways (polyol pathway, hexosamine pathway, protein kinase C pathway, and AGEs pathway);
- Oxidative stress and ER stress;
- Impaired actions of neurotrophic molecules;
- Microinflammation;
- Microvasculature and blood–nerve barrier;
- Genomic, proteomic, and metabolomic databases and applications;
- Therapeutic approaches utilizing cell transplantation.





an Open Access Journal by MDPI

## 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

## Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

## 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, MEDLINE, Embase, CAPus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

## Contact Us

---

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI