



Phytochemicals for Diabetes and its Complication

Guest Editor:

Prof. Dr. Young-Hee Kang

Department of Food Science and
Nutrition and Korean Institute of
Nutrition, Hallym University,
Chuncheon 24252, Republic of
Korea

Deadline for manuscript
submissions:

closed (31 May 2021)

Message from the Guest Editor

This special issue deals with the latest advances in knowledge and ongoing research on the effects of phytochemicals on renal function in health and diabetes. Phytochemicals possesses therapeutic activities of antiapoptotic, antioxidative, antidiabetic, and antiinflammatory effects. Several phytochemicals exhibit renoprotective actions in diseases such as diabetic nephropathy, diabetes-associated chronic kidney disease, glomerulonephritis, and glomeulosclerosis. Phytochemicals manipulate diverse renal factors and attenuate the renal injury associated with diabetes. Their therapeutic outcomes derive from their interference with multiple signaling pathways known to produce renal injury. Some phytochemicals disturb the handling mechanisms of tubular transport processes in the proximal and distal tubules by alteration of the structural integrity and function of tubules. ER stress, apoptosis and autophagy would be ones of the main causes of diabetes-associated kidney dysfunction. In this mechanistic regard, the beneficial effects of phytochemicals need to be established.





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, CAPlus / SciFinder, and other databases.

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

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI