

Special Issue

Phytochemicals for Diabetes and its Complication

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 possess 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 glomerulosclerosis. 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.

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2021)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/40735

*International Journal of
Molecular Sciences*
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