

Special Issue

100th Anniversary of Insulin: Insulin Receptor Signaling in Health and Disease

Message from the Guest Editors

Several signaling molecules have been identified as critical players in the regulation of insulin-induced IR activation. G protein-coupled receptors (GPCR) have recently been implicated in intracellular crosstalk pathways with IR. The integration of GPCR and receptor tyrosine kinase (RTK) signaling is eloquently reviewed. Other reports have also shown that IR can interact with G α subunits upon receptor activation. The gaps in our knowledge regarding how these metabolite consumptions are implicated in host metabolism via GPCR receptors reinforce the importance of research needed to understand the mechanistic action of these drugs on the body as promising metabolic candidates. Collectively, these findings uncover a unique mode of control for IR activation and present an innovative approach to targeting insulin signaling via GPCR complexes. This research has the potential to uncover (a) novel mechanism(s) of metabolite-induced metabolic changes, epigenetic reprogramming, insulin resistance and diabetes. Original manuscripts and reviews dealing with any aspect of insulin receptor and related pathophysiology are welcome.

Guest Editors

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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.

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