Special Issue

Pathological Roles of LRRK2

Message from the Guest Editor

Leucine-rich repeat kinase 2 (LRRK2) is a multidomain Ser/Thr kinase that physiologically phosphorylates several substrate proteins, including Rab GTPases, which are molecular switches for intracellular vesicular transport. LRRK2 has been identified as a gene associated with familial and sporadic Parkinson disease (PD), and recent studies suggest that its overactivation is involved in the pathogenic process of PD. LRRK2 has also been found to be associated with several immunological disorders, namely, inflammatory bowel diseases, including Crohn disease and ulcerative colitis, Hansen disease (leprosy), and systemic lupus erythematosus; however, the pathological significance of substrate phosphorylation in the context of these diseases remains unclear. This Special Issue of Biomolecules focuses on recent advances relating to the pathological roles of LRRK2 in diseases.

Guest Editor

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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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