Special Issue

Prion Biology and Disease: Molecular Mechanisms and Emerging Technologies

Message from the Guest Editors

Prion diseases, or transmissible spongiform encephalopathies, are fatal neurodegenerative diseases affecting both humans and animals, including Creutzfeldt–Jakob disease, scrapie, bovine spongiform encephalopathy, and chronic wasting disease. They are caused by structural conversion of the cellular isoform of prion protein (PrPC) into its misfolded abnormal isoform (PrPSc), which then spreads due to a self-propagating mechanism, ultimately accumulating in the brain. This Special Issue in *Biomolecules* calls for research articles, reviews, and communications that highlight recent advances in the molecular mechanisms of prion pathogenesis and transmission, the normal physiological functions of PrPC, and prion aggregation kinetics and host–prion interactions. In addition, we particularly welcome contributions on emerging technologies including inactivation and decontaminating technologies, detection methods for diagnosis and surveillance, and therapeutic drugs and strategies to treat affected patients.

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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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