Special Issue

Molecular Genetics of Prion Diseases

Message from the Guest Editor

Prion disease is fatal, acute and irreversible neurodegenerative diseases with wide host ranges, including scrapie in sheep and goats, bovine spongiform encephalopathy (BSE) in cattle, chronic wasting disease (CWD) in elk and deer, and Creutzfeldt–Jakob disease (CJD) in humans. It has been approximately three centuries since prion disease in sheep was first discovered in 1732. However, the exact mechanism on the progression and the causative agent of prion diseases have not been revealed thus far. To date, genetic variations including genetic polymorphisms, germline mutations and somatic mutations of the prion disease-related genes play pivotal role in prion diseases.

In this Special Issue of the International Journal of Molecular Sciences, the main topic will be “Molecular genetics of prion diseases”, which is dedicated to research articles and reviews of prion disease-related genetic studies, including human and non-human studies. The emphasis will be on novel prion disease-related genetic variabilities and prion disease susceptibilities and the functional role of prion disease-related genes to understand the pathogenesis of prion diseases.

Guest Editor

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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.

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