

Special Issue

Prion Diseases in Animals

Message from the Guest Editor

Prion diseases, which include Creutzfeldt–Jakob disease in humans, scrapie in sheep and goats, bovine spongiform encephalopathy in cattle, and chronic wasting disease in elk and deer, are caused by the accumulation of abnormal infectious protein particles in the brain. Conformational conversion of the normal prion protein (PrPC) into the protease K-resistant isoform (PrPSc) is commonly observed in various host animals. Although several studies have investigated many aspects of prion diseases, the diseases are still incurable. Therefore, further studies for the elucidation of the pathogenic mechanisms of the diseases and development of therapeutic interventions against prion diseases are still crucial. This Special Issue welcomes prion researchers who wish to share new findings in animal prion diseases. Original research and review articles about diagnosis, genetic study, pathomechanism, possible biomarkers and potential therapeutic approaches to animal prion diseases are especially welcomed. Studies on nonmammalian prions are also welcome.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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