Special Issue

Quasielastic Neutron Scattering in the Studies on Serious Diseases

Message from the Guest Editor

This Special Issue explores the possibilities of quasielastic neutron scattering (QENS) to study the molecular mechanisms of diseases. Diseases, which often appear as damage at the tissue level, arise due to failures of the underlying systems of related protein networks. Understanding these systems at the molecular level is required to understand ultimately how the diseases develop. The physicochemical properties of these systems thus need to be investigated. In particular, since the biological macromolecules inherently have a dynamic nature, the dynamic properties need to be investigated as well as their structures. QENS provides unique tools to directly measure the dynamics of these molecules. QENS is thus suitable to investigate how the dynamics of the disease-related molecules are involved with the pathogenesis of the diseases, and how these dynamics are modified under the pathological states. The topics will include QENS studies on disease-related molecules, the tissues or cells in the pathological states, and the effects of drugs. This issue will hopefully provide readers with a comprehensive view of the possibilities of QENS in studies on diseases.

Guest Editor

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