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Tissues in the body such as the brain are composed of various types of cells, including the circulatory system that nourishes them, which form a complex network. Following stimulation, excitation is transmitted to the network, resulting in complicated biological functions represented by brain function. The clarification of the mechanisms of such biological functions contributes to the early diagnosis of diseases and the selection of optimal treatment methods and thus is the most important issue in fields of life science such as medicine and pharmacology.

Bioimaging techniques, which allow the visualization of biological activities, have attracted attention as methods that are useful for clarifying biological functions. These techniques include positron emission tomography (PET), single-photon emission computed tomography (SPECT), magnetic resonance imaging (MRI), and magnetoencephalography (MEG).

In this symposium, we will hear lectures and discussion about recent topics associated with the imaging of biological functions using bioimaging techniques.