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Multiphoton Microscopy

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Message from the Guest Editors

Dear Colleagues,

Multiphoton microscopy is one of the most commonly used imaging methods, especially for in vivo animal experiments. High resolution imaging, optical sectioning capability, and increased penetrance into the tissue provide essential advantages for the technique. Multiphoton imaging can also be simultaneously combined with other imaging setups, behavioral paradigms, interventions to physiology or pathology, and 1-P/2-P optogenetics, allowing for a broad experimental scope. With a widening spectrum of fluorophores and growing library of genetically modified animals, this application allows researchers to seek even more specific answers to biological questions, therefore increasing its popularity. In this Special Issue, we would like to encourage the participation of a wide range of studies using multiphoton microscopy and emphasize applications in data acquisition.