

Longitudinal Intravital *In Vivo* Brain Imaging in Rodents: Awake States, Disease Models, and Cellular Dynamics



Title:

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 **Date&Time: 2026.10.01 Thursday | 16:00 (CEST) / 10:00 (EDT)**

 **Duration: 40mins (Presentation) + 10mins (Q&A)**



Register NOW!

Overview

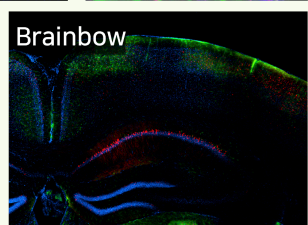
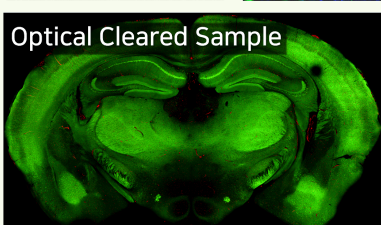
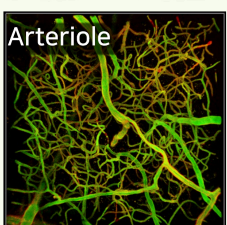
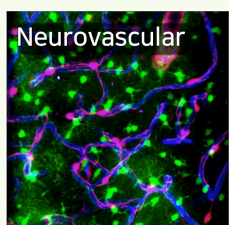
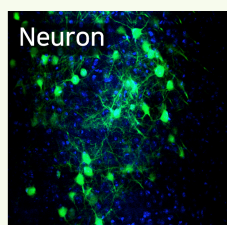
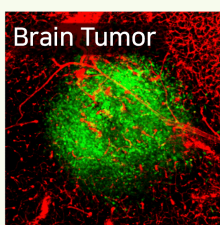
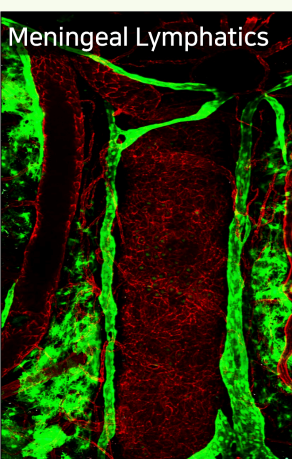
Intravital microscopy provides a powerful approach to visualize cellular and vascular dynamics in living tissues in real time and at single-cell resolution. This webinar will introduce confocal and two-photon intravital brain imaging approaches for investigating **neuronal activity, glial dynamics, cerebral vasculature, BBB function, and neuroinflammation**.

The presentation will also highlight **awake imaging** in rodents, enabling the study of physiological and neurovascular responses while minimizing the effects of anesthesia. Using representative examples from both normal physiology and disease models, the webinar will demonstrate how intravital microscopy can reveal dynamic cellular interactions and disease progression directly *in vivo*.

Who Should Attend?

- **Neuroscience researchers** studying neuronal activity and brain function.
- **Neuroimmunology & glial biology researchers** investigating microglia, neuroinflammation, and immune–brain interactions.
- **Neurovascular & BBB researchers** studying cerebral blood flow, vascular dynamics, and blood–brain barrier function.
- **Researchers interested in awake imaging** seeking to study physiological and neurovascular responses in freely behaving or awake rodents.

Explore Diverse *In Vivo* Brain Imaging Applications!



MEET THE EXPERT



Jason Juheon Lee, Ph.D.

Senior Application Scientist,
IVIM Technology

Dr. Lee is a neuroscientist specialized in preclinical neuroscience with expertise in advanced optical imaging, including two-photon and confocal microscopy. He is also expanding his research to support disease studies and translational projects across other therapeutic areas.



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