

**NIKON GLOBAL PERSPECTIVES**



# Advanced Microscopy in Neuroscience

Discover neuroscience breakthroughs in our collaborative webinar. Leading researchers from Europe and Japan share insights on synaptic biology, neural circuits, and advanced imaging techniques driving innovation. Don't miss this opportunity to connect with global experts!

FRIDAY 7 FEBRUARY 2025

18:00 - 19:30 **Japan Time** | 9:00 - 10:30 **UK Time**

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Illuminating the synapse: Using advanced imaging to understand the actions of estrogens on cortical neurons



**Deepak P. Srivastava PhD, ScD**

Professor at King's College London

In this presentation, I will discuss our research on how estrogens influence excitatory synaptic structures and the trafficking of synaptic proteins. I will highlight how live-cell imaging and super-resolution techniques have been instrumental in uncovering the mechanisms underlying estrogenic actions at synapses.

Activity-Dependent Mechanisms in Olfactory Neural Circuit Development



**Haruki Takeuchi PhD**

Professor at the University of Tokyo

In the mammalian brain, neural circuits emerge through the interplay of genetic programming and activity-dependent processes. During the development of the mouse olfactory neural circuit, the olfactory receptors responsible for the reception of odor molecules regulate axonal segregation in an activity-dependent manner, but the detailed mechanism by which electrical neuronal activity causes structural changes in the olfactory neural circuit has not been fully elucidated. In this seminar, I will discuss recent progress in our understanding of molecular mechanisms underlying activity-dependent neuronal circuit formation.

**MODERATOR**



**Daniel Metcalf**

Application & Support Manager  
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