

# アドバンス生命理学特論

(構造生物学研究センター・セミナー)

講演者：Mingjie Zhang 教授 (香港科技大学)

香港科技大学のMingjie Zhang先生をお招きし、下記日程においてセミナーを開催いたします。本セミナーでは、シナプス後部における足場タンパク質複合体における生化学および構造生物学研究について、ご紹介いただく予定です。興味のある方は、是非ご参加ください。

日時：2016年6月7日(火) 10:00-11:30

場所：理学部A館 222室

演題：Synaptic Scaffold Proteins in Neuronal Signaling and Development

## Abstract

Synaptic scaffold proteins dictate the architecture of postsynaptic density (PSD) and therefore play critical roles in synaptic strength and plasticity. Numerous human genetic and genomic studies in recent years have revealed that mutations of genes encoding synaptic scaffold proteins are frequently associated with various psychiatric disorders, although the underpinning biological mechanisms are poorly understood. Detailed biochemical and structural dissections of scaffold protein-mediated complex organizations have been offering valuable insights in understanding the underlying mechanisms of PSD formation and function. These studies have also been providing some clues to why mutations of synaptic scaffolding proteins can lead to psychiatric disorders such as autisms, schizophrenia, and depressions. In this talk, I will discuss our systematic efforts in biochemical, structural and functional characterizations of synaptic scaffold protein-mediated signaling complex organization and regulation.

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