第 477 回 難 研 セ ミ ナ ー

第 50 回 難治疾患共同研究拠点セミナー

下記により難研セミナーを開催しますので、多数御来聴下さい。

記

日　時： 2012 年 8 月 23 日（木）14:00～15:00

場　所： M&D タワー21 階　大学院講義室 1

演　者： Atsushi Kamiya, MD, PhD Assistant Professor
Department of Psychiatry and Behavioral Sciences
Johns Hopkins University School of Medicine

演　題：

How can we address the molecular complexities and pathological roles of genetic risk factors for major mental disorders?

要　旨：

High brain function and behavior are influenced by neuronal circuit formation during brain development. Many genetic risk factors for major mental disorders play key roles in neurodevelopment. Consequently, understanding the roles for risk genes in brain development and their effect on neuronal circuit levels is crucial for discovering, at the molecular level, how genetic disturbances affect brain maturation and high brain functions. Nonetheless, it is an enormously difficult task due to genetic complexities, where many genetic factors have multiple roles in various cellular processes depending on cell types, brain regions, and developmental stages. Furthermore, environmental factors play pathological roles. Here I will present our recent finding on risk genes-associated molecular pathways, such as nNOS signaling for prefrontal cortex development and function. Existing treatments for major mental conditions are hampered by a limited number of pharmacological targets. Consequently, elucidation of the molecular mechanisms of genetic risk factors during brain development may provide us with clues to find novel targets for treatment interventions and prevention.

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共催：分子神経科学分野