

# 第46回最先端脳科学セミナー

## Stress-induced prefrontal remodeling and its behavioral consequences

演者:

古屋敷 智之 教授

神戸大学 大学院医学研究科 生化学・分子生物学講座

日時:

2019. 2 月 1 日 Fri. 17:00~18:30

場所:

日医工オーデトリウム (医薬イノベーションセンター1F)

### 要旨

Stress is a strain of our mental and bodily functions caused by aversive stimuli. Brief and controllable stress promotes adaptive responses for well-being and survival, whereas prolonged or excessive stress often induces emotional and cognitive disturbances and can be a risk factor for mental illnesses. However, the biological basis of stress remains elusive. Using social defeat stress in mice, we found that single and repeated exposure to the stress induces different neural and behavioral consequences. In this seminar, I will introduce our recent findings using social defeat stress in mice, especially about the biphasic prefrontal remodeling shaped by dopamine and inflammation for stress-induced behavioral changes, and discuss the implications for therapeutic development for mental illnesses.

※ 本セミナーは、大学院医学薬学教育部「脳科学特論」の一環です。履修者は、[レポートの提出](#)が必要です。また、大学院の単位認定の対象となります。

主催: 医・生化学 井ノ口 馨

第46回セミナー世話人: 医・生化学 kareem abdou 内線 7227