

# 第 48 回脳神経発達統御学セミナー

下記のとおり開催いたしますので、教職員、大学院生など多くの方々の参加を歓迎いたします。

記

日 時: 2014年4月18日(金) 14:00~15:00

場 所: 臨床大学院講堂(臨床講義棟1F)

演題: **Chromatin dynamics and ROS homeostasis by AP-1 repressor JDP2**

演者: **Kazunari K. Yokoyama**

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Jun dimerization protein 2 (JDP2), a member of the AP-1 family, is able to form homodimer, and/or heterodimer with other members of the AP-1 family, such as c-Jun, JunB, JunD and ATF2, and with a member of the C/EBP family. JDP2 most likely participates in the repression of transcription via multiple mechanisms, which include DNA-binding competition and inactivation of formation of heterodimer with other members of the AP-1, recruitment of HDAC3, inhibition of histone acetylation and methylation, and the direct regulation of chromatin assembly. The *Jdp2* deficient mice affect adipocyte differentiation and resistance to replicative senescence, and cell cycle progression through cyclin A2 and cyclin D. Today I present the data that JDP2 regulates anti-oxidant and detoxification program through a new mechanism of complex formation with Nrf2/MafK, and recruited them to the induction of anti-oxidative response element (ARE)-dependent genes. Thus, JDP2 controls the ROS homeostasis in cancer progression, senescence, nuclear reprogramming, and slow aging.

(Refs.) Nat. Struc. Mol. Biol. 13, 331-338 (2006), Oncogene 29, 6245-6256 (2010), Cell Death & Disease, 4, e921 (2013).

連絡先: 分子細胞生物学分野 石崎 泰樹 内線 (7950)

【各専攻分野事務担当者宛】

『**大学院カリキュラム認定のお知らせ**』上記セミナー等は、大学院カリキュラムの講義一回分として医学専攻教務委員会で承認予定です。出席する大学院生は単位認定カードを持参し、出席の確認(印鑑)を受けて下さい。(学務課大学院係)