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。

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 cycling 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.


連絡先：分子細胞生物学分野 石崎 泰樹 内線（7950）