NUS National University of Singapore | Department of Biological Sciences, Faculty of Science

BIOLOGY COLLOQUIUM

Friday, 17 April 2015 | 4pm | DBS Conference Room 1

Hosted by A/P Liou Yih Cherng

p53 Family, Oncogenic Signaling and Cancer Metastasis

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Inactivation of the tumor suppressor protein p53 plays a critical role in tumorigenesis, whereas p53-related p63 gene is essential in epithelial development and stem cell biology. Emerging evidence indicates that mutant p53 proteins acquire gain of functions in promoting cancer metastasis and that p63 is important in regulation of cell migration/invasion. We have recently studied a novel pathway with which the p53 hotspot point mutant, p53-R273H, in promoting cancer metastasis. In addition, we have demonstrated that p63 modulates ERK signaling in regulating cell migration/invasion. Our recent studies on the essential role of p63 in mediating PI3K-induced cancer progression will be also presented and discussed.

Artwork by Ann Nee, DBS, NUS