Institute of Molecular and Cell Biology

A*STAR

SEMINAR ANNOUNCEMENT

We would like to invite you to attend this seminar hosted by Prof. Wanjin Hong:

Date: 11 June 2018, Monday

Time: 11:00AM – 12:00PM

Venue: Level 3, IMCB Seminar Room 3-46, Proteos, Biopolis

Speaker: Dr. Y. Peng Loh, National Institute of Child Health and Human Development, National Institutes of Health, USA

Title: Carboxypeptidase E /Neurotrophic factor- α1: A new signaling system mediating neuroprotection, neurodevelopment and cancer

Carboxypeptidase E, also known as Neurotrophic factor-α1 is highly expressed in endocrine and nervous systems. Mutations of the CPE gene have been linked to diseases in humans such as obesity, type 2 diabetes, hypogonadotrophic hypogonadism and intellectual disability. In vitro studies and a mouse model expressing a non-enzymatic form of CPE/ NF-α1 showed that it plays a novel role extracellularly, as a trophic factor, independent of its enzymatic activity, to mediate neuroprotection, embryonic stem cell differentiation and cancer. Thus CPE/ NF-α1 is a new neurotrophic signaling system that mediates important neurological functions.

Biography:

Dr. Y. Peng Loh is Chief of Section on Cellular Neurobiology, NICHD, National Institutes of Health, USA. She received her B.Sc. in Biochemistry from University College Dublin, Ireland, and PhD in Molecular Biology from University of Pennsylvania, Philadelphia, USA. She did postdoctoral work at NIH and Max Plank Institute in Germany. Dr. Loh's research focuses on the biosynthesis, trafficking and function of neuropeptides and their processing enzymes. Her most recent work has identified Carboxypeptidase E/Neurotrophic factor- α1 as a new trophic factor that mediates neuroprotection, neurodevelopment and tumorogenesis, independent of its enzymatic activity. Dr. Loh has received numerous honors and awards including the FASEB Award for Excellence in Science, the Public Health Superior Service Award, the NIH Director's Award and the Women In Endocrinology Mentor Award. She has served on many Editorial Boards and authored more than 200 scientific articles published in the most prestigious journals such Cell and Nature Medicine.

ALL ARE WELCOME *(No registration required)*