IMCB Invited Speaker



Speaker : **A/Prof. Paul Ekert**
Laboratory Head,
Walter and Eliza Hall,
Institute of Medical Research, Australia.

Date : 11 June 2012 (Monday)

Time : 11:00am - 12:00am

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

Host : Dr. Vinay Tergaonkar

Seminar :

IKK activation by the IL-3 receptor, consequences and mechanisms

p53 Upregulated Modifier of Apoptosis (Puma), a pro-apoptotic member of the Bcl-2 family, is transcriptionally activated by p53 and is a key effector of p53-dependent apoptosis. We have shown that PUMA protein is subject to rapid post-translational regulation by phosphorylation at a conserved residue, serine 10, following serum or Interleukin-3 (IL-3) stimulation. Surprisingly, we identified that IKK1 could directly phosphorylate Puma and that the NEMO/IKK1/IKK2 kinase complex was required for this activity. The finding that IL-3 receptor signalling rapidly activates NFkB raises some interesting questions as to how this occurs, and the contribution this makes to IL-3 receptor signalling in haematopoietic cell survival and cancer.

About the Speaker :

Associate Professor Paul Ekert is Laboratory Head at the Walter and Eliza Hall Institute, studying cytokine signaling in haematopoietic cells and leukaemia. Paul graduated in medicine, University of Melbourne and specialized in Paediatrics. In 2010, he began training in Molecular Pathology.

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