Biomedical Sciences Institutes
A*STAR

p53 Laboratory Seminar Announcement

- All Are Welcome -

Speaker: **Dr. Gerard Hilinski**
Post-Doctoral Fellow in Stem Cell & Regenerative Biology
Faulty of Arts & Sciences, Harvard University

Title : Next-Generation α-Helical Peptide Stabilization Technology – Beyond Hydrocarbon-Stapled Peptides

Date : **19 August 2013 (Monday)**

Time : **11am – 12pm**

Venue: **Breakthrough Theatrette, Matrix Level 4, Biopolis**

Host : **Dr Farid Ghadessy**
Group Leader, p53Lab

Abstract:

Stapled peptides have demonstrated the ability to inhibit traditionally "undruggable" intracellular protein-protein interactions through incorporation of an all-hydrocarbon macrocyclic bridge formed *via* olefin metathesis which locks the peptide into a bioactive α-helical conformation. These synthetic biologics combine the broad targeting capabilities of protein therapeutics with the favorable pharmacokinetics and intracellular accessibility typical of small molecule therapeutics. The development of all-hydrocarbon stapled peptides can be hampered by suboptimal cellular uptake and aqueous solubility. To overcome this limitation, the Stem Cell & Regenerative Biology Group in Harvard University are developing a next-generation peptide stapling technology that incorporates a more hydrophilic macrocyclic bridge intended to promote cell penetration.

About the Speaker:

Dr Hilinski is currently a postdoctoral fellow at Harvard University's Department of Stem Cell & Regenerative Biology, and working with Dr Gregory Verdine to develop a novel next-generation strategy to enhance the drug-like properties of chemically-stabilised peptide therapeutics. Dr Hilinski obtained his PhD from Harvard University in 2011, and his dissertation topic was "Stapled Peptide Inhibtion of Myc ad the Androgen Receptor".