

Visitor Seminar

**Proudly Sponsored by PerkinElmer:
Dr Kristmundur Sigmundsson,
Senior Research Fellow,
Program of Cardiovascular and Metabolic
Disorders,
Duke-NUS Graduate Medical School
Singapore**

Title:**When: Monday 14 July 2014****Where: Lecture theatre, U243, Level 2, 44 Musk Ave, Kelvin Grove****Time: 2:30pm-3:30pm****RSVP ASAP :** ihbi.events@qut.edu.au**Abstract:**

Laminins are a family of cell-type specific basement membrane proteins important for cell adhesion, differentiation, migration and phenotype stability. In my talk, I will provide examples from several of our ongoing projects, involving culturing of primary progenitor cells from various tissues, applying specific cell culture matrices of recombinant laminins together with defined media and high content imaging. The aim of this activity is to define robust methods for establishment and expansion of pluripotent stem- and progenitor cells, suitable for regenerative medicine.

Dr Sigmundsson will be in Australia for the The 2014 Australian High Content Screening and RNAi meeting where he is a keynote Speaker.

Dr. Sigmundsson visits Australia from Duke-NUS Graduate Medical School Singapore where he works with Prof Tryggvason <https://www.duke-nus.edu.sg/content/tryggvason-karl>

The groups research concerns broad studies on the protein components and diseases of basement membranes. They have cloned genes and cDNAs for most human basement membrane components, type IV collagens, laminins and perlecan. He also works for Biolamina a company which develops, manufactures and distributes cell culture reagents intended for culturing of primary cells such as stem cells. <http://biolamina.com/>

History:

2013 – present: Senior research Fellow at [CVMD](#), Duke-NUS Graduate medical School Singapore. Projects: Development of “drug free” culture conditions for stem- and progenitor cells, applying recombinant laminins and high content imaging.

2011 – 2013: Senior Scientist at [LCBKI](#), Chemical Biology Consortium Sweden, Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm, Sweden. Working with: Assay development, screening, cell based approaches and high content imaging.

2007 – 2009: Postdoc at the [Biophysics](#) Dept. of the Niels Bohr Institute, Copenhagen. Project: Investigating the thermodynamics basis of pulse propagation in nerves, applying conventional electrophysiology methods, in parallel with atomic force- and fluorescence microscopy.

2004 – 2006: Postdoc at [Novo Nordisk A/S](#), Måløv, Denmark. Working on a immune-therapy