

Minisymposium 33

Modeling Development, Homeostasis and Disease of Tissues Using the Cellular Potts Model (CPM)

Agenda:

Wednesday, June 18th , 2014 11.40-13.20

11.40 - 12.00

Sonja Boas, Life Sciences group, CWI, Amsterdam

Synergy of vacuolation and cell-cell repulsion in lumen formation

12.00 - 12.20

Marco Scianna, Department of Mathematical Sciences, Politecnico di Torino, Italy,

Cellular Potts Models for Cell Migration

12.20 - 12.40

Gibin Powathil, Department of Mathematics, University of Dundee, Scotland

Multiscale techniques in cancer modelling and treatment prediction: A CompuCell3D approach

12.40 - 13.00

Walter de Back, Technische Universität Dresden, Germany

Measuring and modeling dynamics of VEGF retention in vascular patterning

13.00 - 13.20

Stan Maree, Department of Computational and Systems Biology, the John Innes Centre, Norwich,UK

The Cellular Potts Model in the context of Cell Surface Mechanics