

IWH-Symposium on “Collective Cell Migration“

July 14 & 15, 2015

IWH, Hauptstrasse 242, Heidelberg, Germany



Heidelberg, the IWH below the castle and the old bridge

Invited speakers have 30+10 min and contributed speakers have 15+5 min. The registration fee of 250 € should be paid in advance. Posters will be displayed in a separate room during the whole workshop (standard size A0). Note that the house has no wheel-chair access, but assistance can be provided.

PRELIMINARY PROGRAMME

day before, July 13 (Monday)

19:00 - 21:00 Registration and reception at the IWH

1st day, July 14 (Tuesday)

Session 1: Dynamics of cell monolayers I

09:00 - 09:40: Pascal Silberzan, Confined and shaped monolayer

09:40 - 10:20: Franziska Matthäus, CCM of non-small cell lung cancer

10:20 - 10:40: Ana Smith, MDCK cell sheets

10:40 - 11:20: coffee break

Session 2: Cell cycle control in wound healing

11:20 - 12:00: Lars Hufnagel

12:00 - 12:40: Niels Grabe

12:40 - 13:00: Stuart Johnston, Interpreting scratch assays

13:00 - 14:30: lunch / posters / discussion

Session 3: Tissues and development

14:30 - 15:10: Darren Gilmour

15:10 - 15:50: Roberto Major, CCM of mesenchymal cells

15:50 - 16:10: Lukas Schütz, The dorsal folds in Drosophila

16:10 - 16:40: coffee break

Session 4: Molecular mechanisms

16:40 - 17:20: Sandrine Etienne-Manneville, Keeping in contact

17:20 - 18:00: Michael Sixt

18:00 - 18:40: Tamal Das, Mechanoregulation of CCM

19:00 Buffet dinner

2nd day, July 15 (Wednesday)

Session 5: Dynamics of cell monolayers II

09:00 - 09:40: Xavier Trepap

09:40 - 10:20: Thomas Angelini, Cell volume fluctuations

10:20 - 10:40: Ruth Baker

10:40 - 11:20: coffee break

Session 6: Cell interactions

11:20 - 11:40: Christine Selhuber, Scaffolds for Cell Migration

11:40 - 12:00: Jae Hun Kim, Unjamming and intercellular adhesive forces

12:00 - 12:20: Wolfgang Losert, Physical Guidance of Cell Migration

12:20 - 12:40: Benedikt Sabass, Cooperative migration of Myxococcus Xanthus

12:40 - 13:00: Till Kranz, Effective dynamics of microorganisms

13:00 - 14:30: lunch / posters / discussion

Session 7: Role of geometry

14:30 - 15:10: Celeste Nelson

15:10 - 15:50: Alexander Kabla, Collective dynamics

15:50 - 16:10: Irina Surovtsova, Elastic force balance

16:10 - 16:40: coffee break

Session 8: Physics of cell migration

16:40 - 17:20: Joachim Rädler

17:20 - 17:40: Dapeng Bi, Rigidity and glassy dynamics

17:40 - 18:00: Christian Franck, 3D traction force microscopy

18:00 - 18:20: Ulrich Schwarz, Malaria parasite swirls

19:00 Buffet dinner

Posters: Sabrina Rossberger, Christiane Antoni, Dimitris Missirlis, Konrad Beyer, Medhavi Nagpal, Mendi Muthinja, Chiara Zambarda, Axel Voigt, Francesco Alaimo

Organizers: Heike Böhm, Friedrich Frischknecht, Ulrich Schwarz

boehm@is.mpg.de

freddy.frischknecht@med.uni-heidelberg.de

Ulrich.Schwarz@bioquant.uni-heidelberg.de