



**Autumn meeting:
MECHANOBIOLOGY
IN CELL BIOLOGY AND DEVELOPMENT**

October 29-30, 2020 (Ghent)

Organizers: *Liesbet Geris, ULg and KU Leuven*
Elizabeth A. Jones, KU Leuven
Isabelle Migeotte, ULB
Jolanda van Hengel, UGent
An Zwijsen, KU Leuven

Tentative Program

Thursday – October 29, 2020

8.30 – 9.15 Registration and welcome coffee

9.15 Welcome

Session 1: Mechanobiology: From organelles to cells

9.30 **Georg Halder** (KU Leuven, VIB, BE)

Hippo signaling, F-actin and growth control in cancer and regeneration

10.00 **Sylvain Gabriële** (UMons, BE)

How do cell-cell and cell-adhesive interactions modulate the migration velocity of epithelial tissues by tuning their metabolism

10:30 Selected short presentation 1

10.45 – 11.15 Coffee break

Session 2: From cells to organs

11.15 **Alfonso Martinez- Arias** (Cambridge, UK)

Gastruloids: a self-engineered system for the study of early mammalian development

11.45 Selected short presentation 2

12.00 **Poster flash talks**

12.30 – 14.00 Lunch + face to face interaction (reservation necessary)

Session 3: From health to disease

- 14.00 **Kim van der Heiden** (Rotterdam, The Netherlands)
Tissue engineering a human atherosclerotic plaque model to study plaque rupture mechanics
- 14.30 **Julien Vermot** (IGBMC, Strassbourg, FR)
Force sensitive signals during the process of valve formation
- 15.00 Selected short presentation 3
- 15.15 Selected short presentation 4

15.30 – 16.00 Coffee break

- 16.00 **Benoit Ladoux** (Paris, France)
Cell adhesion and mechanics
- 16.30 Announcement winner of BSCDB PhD Excellence Award 2020 by J. van Hengel, president of BSCDB
- 16.40 BSCDB PhD excellence award lecture: **XXX** (30 min)

Friday, October 30, 2020

8.30 – 9.00 Registration + optional Coffee

Session 4 – From organs to organisms

- 9.00 **Kristian Franze** (U. Cambridge, UK)
The mechanical regulation of neuronal growth in the developing brain
- 9.30 **Jan Traas** (Lyon, FR)
The mechanics of leaf morphogenesis
- 10.00 Selected short presentation 5
- 10.15 Selected short presentation 6
- 10.30 Selected short presentation 7

10.45 – 11.15 Coffee break

- 11.15 **Sandra Van Loeracker** (Eindhoven, The Netherlands)
Modeling of Mechanobiology
- 11.45 Selected short presentation 8
- 12.00 **Poster flash talks**

12.30 – 14.00 Lunch + face to face interaction (reservation necessary)

Session 5 – From health to disease

14.00 Selected short presentation 9

14.15 Selected short presentation 10

14.30 Selected short presentation 11

14:45 **Takashi Hiragi** (EMBL, Heidelberg, Germany)

Symmetry breaking and self-organization

15.45 Award BSCDB poster prizes by P. Ponsaert, secretary of BSCDB

16.00 Closing remarks and coffee

Titles of presentations are tentative