

Mechano-chemical signals in invasion (Invadosome 2019)

19th - 22nd June 2019, London, UK

Day 1 (19th June 2019)

AFTERNOON SESSION: Session I Cytoskeletal dynamics I (actin)

12:00-16:00: Arrival and registration

16:00-16:15: Welcome and opening

16:15-16:45: Stefan Linder

The podosome cap: an actomyosin regulatory module

16:45-17:15: Michael Way (Title TBC)

17:15-17:30: Short talk

17:30-17:45: Flash talks x3

17:45-18:30: Coffee

18:30-19:15: Keynote lecture: John Condeelis

Tumor cell invadopodia: Invasive protrusions that orchestrate dissemination, metastasis and resistance to chemotherapy

19:15 Poster session and Welcome drinks

20:00: Dinner

Day 2 (20th June 2019)

MORNING SESSION: Session II: Cytoskeletal dynamics II (microtubules and intermediate filaments)

9:00-9:30: Laura Machesky

Mechanotransduction controls invasive behaviour through a metabolic switch in pancreatic cancer cells

9:30-10:00: Anne Blangy (Title TBC)

10:00-10:15: Short talk

10:15-10:30: Short talk

10:30-10:45: Flash talks x3

10:45-11:30: Coffee and poster viewing

11:30-12:00: Anna Akhmanova

Control of cell migration by dynamic microtubules

12:00-12:30: Sandrine Etienne-Manneville

Microtubules in mechanotransduction during cell migration.

12:30-12:45: Short talk
12:45-13:00: Flash talks x3
13:15: Lunch
14:30-16:00: Poster session

AFTERNOON SESSION: Session III: Adhesion structure and dynamics

16:00-16:30: Benny Geiger
The role of receptor tyrosine kinase signaling in invadopodia formation and function
16:30-17:00: Corinne Albiges-Rizo (Title TBC)
17:00-17:15: Short talk
17:15-17:30: Short talk
17:30-18:00: Coffee and poster viewing
18:00-18:30: Sara Courtneidge (Title TBC)
18:30-18:45: Short talk
18:45-19:00: Short talk
20:00: Dinner
21:00-22:30: Poster session and networking

Day 3 (21st June 2019)

MORNING SESSION: Session IV: Mechanobiology

9:00-9:30: Alessandra Cambi
Modular actin nano-architecture enables podosome protrusion and mechanosensing
9:30-10:00: Philippe Chavrier
Tumor invasion is mediated by MT1-MMP-based force-producing proteolytic contacts
10:00-10:15: Short talk
10:15-10:30: Short talk
10:30-10:45: Flash talks x3
10:45-11:30: Coffee and poster viewing
11:30-12:00: Isabelle Maridonneau-Parini
Mechanisms and mechanics of macrophage migration
12:00-12:30: Jan Lammerding
Nuclear mechanobiology in cancer cell invasion
12:30-12:45: Short talk
12:45-13:00: Short talk

13:15: Lunch

14:30-16:00: Poster session

AFTERNOON SESSION: Session V Mechanisms of tissue invasion

16:00-16:30: Danjiela Vignjevic (Title TBC)

16:30-17:00: Elisabeth Genot

Podosomes in endothelial cells, angiogenesis and beyond

17:00-17:15: Short talk

17:15-17:30: Short talk

17:30-18:00: Coffee and poster viewing

18:00-18:30: Peter Friedl (Title TBC)

18:30-18:45: Short talk

18:45-19:00: ROUND TABLE

20:00: Dinner

Day 4 (22nd June 2019)

MORNING SESSION: Session VI: Genomic regulation in invasion

9:00-9:30: Martin Humphries

The response of the adhesion nexus to changes in extracellular rigidity

9:30-10:00: Lecture Ines Anton (Title TBC)

10:00-10:15: Short talk

10:15-10:30: Short talk

10:30-11:15: Coffee and poster viewing

11:15-11:45: Lecture Margaret Frame (Title TBC)

11.45-12.15: Stefano Piccolo

Biology and regulation of the mechanotransducers YAP/TAZ

12:15-12:30: Short talk

12:30-12:45: Short talk

12:45: Final comments and meeting end