

ADHERE1 Programme

Wednesday 6/9/2023

15:00-18:00 Registration & Poster Assembly

18:00-18:15 Opening remarks

18:15-19:15  The EMBO Keynote Lecture
Reinhard Fässler: "Integrin adhesion dynamics in cycling cells"

19:15- Welcome reception

Thursday 7/9/2023

8:30 Registration desk opens

9:00-10:40 Session 1 - *The Composition of Integrin Adhesion Complexes*

Chairs: Reinhard Fässler & Staffan Strömblad

9:00-9:25 Christoph Ballestrem:

"Molecular mechanisms that drive the formation of different types of cell-matrix adhesion complexes"

9:25-9:50 Andreja Ambriović-Ristov:

"Talin2 and KANK2 in integrin $\alpha V\beta 5$ -Associated Focal and Reticular Adhesions in Melanoma Cell Line"

9:50-10:15 Arnoud Sonnenberg:

"Caskin2 - a novel component of the cortical microtubule stabilizing complex that binds to talin and Abi1"

10:15-10:40 Matthew Jones:

"Cell-matrix adhesion and the cell-cycle"

10:40-11:25 Coffee break[#]

11:25-13:00 Session 2 - *Adhesion from Physical Perspective*

Chairs: Reet Kurg and Javier Jakub Wlodarczyk

11:25-11:50 Ana Sunčana Smith:

"Physics of cell adhesion"

11:50-12:15 Igor Weber:

"Touch and Go: Adhesion of Dictyostelium Amoebae to Surfaces"

12:15-12:40 Rui Travasso:

"Adhesion modulates cell migration, erythrocyte morphology and endothelial cell dynamics"

12:40-13:00



Golden sponsor lecture

Ondrej Sedlak "Nikon for Science, Nikon for the Future"

13:00-15:00 Lunch

15:00-16:40 Session 3 – *Adhesion in Cancer*

Chairs: Patrick Caswell & Javier Redondo-Munoz

15:00- 15:25 Staffan Strömblad:

“Mechanical regulation of mevalonate pathway enzyme synthesis drives a malignant breast cancer cell phenotype”

15:25-15:50 Paola Defilippi:

“p140Cap inhibits β -Catenin in the breast cancer stem cell compartment instructing a protective anti-tumor immune response”

15:50-16:15 Vassiliki Kostourou:

“Talin regulates steady-state tensional homeostasis to drive vascular morphodynamics and cancer”

16:15-16:40 Eloi Montanez:

“TDP-43, a new player in angiogenesis and vascular homeostasis”

16:40-17:45 Coffee break[#]

17:45-19:00 Session 4 - *Dynamics of Cell Adhesion*

Chairs: Mercedes Costell & Vessa Hytonen

17:45-18:10 Patrick Caswell:

“CAFs promote assembly of the metastatic matrix niche through Arf6-dependent trafficking”

18:10-18:35 Javier Redondo-Muñoz:

“How the nucleus responds in migrating cells upon mechanical compression”

18:35-19:00 Thomas Zacharenko:

“The structural basis of the Talin-KANK1 interaction that coordinates the actin and microtubule cytoskeletons at focal adhesions”

19:00-20:00 Dinner

21:00-22:30 Poster session

Friday 8/9/2023

8:30 Registration desk opens

9:00-10:40 Session 5 - *Adhesion Signalling*

Chairs: Paola Defilippi & Svjetlana Kalanj-Bognar

9:00-9:25 Jakub Włodarczyk:

“The molecular fingerprint of stress resilience”

9:25-9:50 Klementina Fon Tacer:

“Melanoma antigens at the crossroads of spermatogenesis and cancer: Role in stress resistance and ECM remodeling”

9:50-10:15 Haguy Wolfenson:

“YAP mediates apoptosis through failed integrin adhesion reinforcement”

10:15-10:40 Anne Karine Lagendijk:

“The identification of a novel pathway that specifically controls junctional integrity in veins”

10:40-11:45 Coffee break[#]

11:45-13:00 Session 6 - *Mechanobiology*

Chairs: Cristoph Ballestrem & Igor Weber

11:45-12:10 Ben Goult:

"Talin is a novel mechanically-regulated A-kinase Anchoring Protein (AKAP) and Protein Kinase A substrate"

12:10-12:35 Vesa Hytonen:

"Talin is a mechanical connector in cells and associated with multiple diseases"

12:35-13:00 Olivier Rossier:

"Dissecting integrin regulation through biomimetic reconstruction of adhesion sites"

13:00-15:00 Lunch

15:00-16:15 Session 7 - *Extracellular Matrix*

Chairs: Sanja Sever & Martin Gregor

15:00-15:25 Mercedes Costell:

"Cancer microenvironment in mice with the fibronectin synergy site inactivated"

15:25-15:50 Reet Kurg:

"Extracellular vesicles, their origin, composition and functions"

15:50-16:15 Svjetlana Kalanj-Bognar:

"Cell-adhesion glycoprotein neuroligin in human brain"

16:30-19:00 Walking tour, Zadar

20:00-24:00 Dinner party + poster prize

Saturday 9/9/2023

8:30 Registration desk opens

9:00-10:40 Session 8 – *Cytoskeleton*

Chairs: Arnoud Sonnenberg & Rui Travasso

9:00-9:25 *last minute change*

Smadar Ben-Tabou de-Leon:

"Interplay between mechanical and genetic information processing controls skeletal growth in the sea urchin embryo"

9:25-9:50 Martin Gregor:

"Targeting mechanical homeostasis in cancer progression and metastasis"

9:50-10:15 Corinne Albiges-Rizo:

"Exploring integrin-BMPR cross-talk to understand migratory decision making"

10:15-10:40

Poster prize talk

10:40-11:45 Coffee break

11:45-12:50 Round table discussion– TOPIC: [Applications for EU funding in Adhesion](#)

Chairs: Vassiliki Kostourou, Ben Goult & Andreja Ambriović-Ristov

12:50-13:00 Closing remarks

13:00-15:00 Lunch & Departure

#Coffee breaks will take place adjacent to the poster area to allow more discussion time.