

ABOUT THE CONFERENCE

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 Sanja Sever: "Regulation of actin cytoskeleton in a cell-type specific manner by dynamin"

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: 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.

Adhere1 is the first conference in a series of future annual conferences on cell adhesion initiated by Andreja Ambriović-Ristov (Croatia), Ben Goult (United Kingdom) and Vassiliki Kostourou (Greece).

Our intention was to promote better communication between researchers by organising a meeting to discuss the latest research in the field of cell adhesion. We would like to encourage discussions and future collaborations between scientists of all career stages and that participants use the time during the conference to arrange future collaborations, find postdocs and that the Adhere conferences become an incubator for ideas and contacts for future projects.

Cell adhesion is essential for cell-cell communication, interaction with the extracellular matrix, cell migration, cell proliferation and survival. Altering the process of cell adhesion can lead to both acute and chronic diseases and is involved in the development of cancer.

Adhere1 will focus on experimental and theoretical aspects of cell adhesion, the basic molecular mechanisms of cell adhesion and its role in various diseases, and the application of cell adhesion in biotechnology. However, our goal is for the Adhere1 conference to determine its own content, shaped by conference participants, and for this conference to become a venue to discuss research from other fields that may impact the field of adhesion.

The talks will be given by Principal Investigators. The poster section will be a place where the main discussions and exchange of ideas will take place in an informal atmosphere.



ADHERE 1

SEPTEMBER 6-9, 2023
ZADAR, CROATIA

the first conference in a series of
future annual conferences
focused on cell adhesion

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 α V β 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 Matt 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 Włodarczyk

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"

ADHERE 1 PROGRAMME



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 antitumor 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: Cristof 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 neuropilin in human brain"

16:30-19:00 Walking tour, Zadar

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