

DFG SPP 1782

Epithelial intercellular junctions as dynamic hubs to integrate forces, signals and cell behavior

Annual symposium RWTH Aachen University

October 04-06, 2022

04.10.2022		
19:00	Dinner Elisenbrunnen	1
05.10.2022		
11:00 - 12:45	Talks P1-P4 (PhD students/postdocs) (25min); chair Sandra Iden	2
11:00 - 11:30	P1 (AG Großhans/Wolf) Jörg Großhans: <i>Synchronization of epithelial cells by mechanosensitive Tmc channels</i>	
11:30 - 11:55	P2 (AG Grashoff) Lukas Windgaße: <i>Investigating the mechanical loadings at intercellular junctions</i>	
11:55 - 12:20	P3 (AG Hatzfeld) Lisa Müller: <i>Plakophilin 3 is a central regulator of proliferation and G1/S phase transition</i>	
12:20 - 12:45	P4 (AG Magin) Thomas Magin: <i>A therapy approach for Epidermolysis Bullosa Simplex</i>	
13:00 - 14:00	Lunch	2
14:00 - 16:35	Talks P5-P10 (PhD students/postdocs) (25min); chair Thomas Magin	2
14:00 - 14:25	P5 (AG Iden) Sandra Iden: <i>From intraepithelial cell-cell adhesions to heterotypic cell-cell communication in epithelial tissues</i>	
14:25 - 14:50	P6 (AG Leube) Marcin Moch: <i>Cortical tension regulates desmosomal morphogenesis</i>	
14:50 - 15:20	P7 (AG Janshoff) Andreas Janshoff/ Tanmaya Sethi: <i>Impact of tight junctions on the collective dynamics and mechanics of epithelia</i>	
15:20 - 15:45	P8 (AG Merkel / Hoffmann) Robin Püllen: <i>Better together – Mechanosensitive responses of epidermal keratinocytes in their 3D environment</i>	
15:45 - 16:10	P9 (AG Breuhahn) Lena Thiess: <i>Connecting junctional proteins with Hippo/YAP pathway activity in liver cancer</i>	
16:10 - 16:35	P10 (AG del Campo) Ana Díaz Álvarez: <i>Developing a tunable biomaterials platform to mimic the intercellular interface</i>	
16:35 - 17:00	break	2

17:00 – 18:40	Talks P11-P14 (PhD students/postdocs) (25min); chair Andreas Wodarz	2
17:00 - 17:25	P11 (AG Schlegel / Waschke) Elisabeth Butz: <i>Cytoplasmic truncation of desmoglein 2 is a risk factor for inflammatory bowel disease</i>	
17:25 - 17:50	P12 (AG Niessen) Matthias Rübsam: <i>Biomechanical regulation of epidermal barrier renewal</i>	
17:50 - 18:15	P13 (AG Wodarz) Patrizia Kroll: <i>The LIM protein Smallish regulates actomyosin contractility during epithelial morphogenesis in Drosophila</i>	
18:15 - 18:45	P14 (AG Dahmann) Jing Wang: <i>Interplay between mechanical tension and cytoskeletal organization in cell separation at compartment boundaries in Drosophila</i>	
19:00	Buffet	2

06.10.2022

09:00 - 10:40	Talks P15-P18 (PhD students/postdocs) (25min); chair Michael Krahn	2
9:00 - 9:25	P15 (AG Classen) Anne Classen: <i>Eya-controlled affinity between cell lineages drives self organization during drosophila oogenesis</i>	
9:25 - 9:50	P16 (AG Diz-Muñoz) Alba Diz-Muñoz: <i>Strength of interactions in the Notch gene regulatory network determines patterning and fate in the notochord</i>	
9:50 - 10:15	P17 (AG Lecaudey) Alicia Lardennois: <i>The junction protein Shroom3 is required for epithelial morphogenesis and organ formation</i>	
10:15 - 10:140	P18 (AG Schnittler) Hans-Joachim Schnittler: <i>Ectopic VE-cadherin expression in breast carcinoma cells modulates cell junctions, which impacts transendothelial migration</i>	
10:40 - 10:50	break	2
10:50 - 11:45	Talks P19-P20 (PhD students/postdocs) (25min); chair Hans-Joachim Schnittler	2
10:50 - 11:15	P19 (AG López Posadas) Ngo Anh Phuong: <i>Piezo mechanosensitive receptor interplay with tight junction proteins for maintenance of epithelial cell number and integrity</i>	
11:15 - 11:45	P20 (AG Krahn / Weide) Michael Krahn/ Ann-Christin Groh: <i>New roles of Pals1 in regulating cell migration and cell survival</i>	
12.00	Lunch	2

Accommodation (Prepayment; reimbursement according to DFG rules):

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Locations:

Venues:

¹Elisenbrunnen: Friedrich-Wilhelm-Platz 14, 52062 Aachen

²Hörsaal (Raum 130), Medizinisch-Technisches Institut 1 (MTI-1), Wendlingweg 2, 52074 Aachen

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