FEBS Workshop "Ageing and Regeneration": Sept 9-12, 2019

Venue: University of Innsbruck, Aula, Innrain 52, Innsbruck, Austria





of

12:00	Registration			
13:00	Greetings and Welcome: Ulrike Tanzer, Vice Rector for Research, University Innsbruck			
13:15 - 1	6:00 Session 1: DNA Repair and Ageing (Session Convener: Björn SCHUMACHER, Cologne, Germany)			
13:15	Björn SCHUMACHER (Cologne, Germany): DNA damage responses in the ageing process			
13:40	Jan VIJG (Bronx, NY, USA / Shanghai, China): Single-cell analysis of genome instability in aging			
14:05	Selected oral presentations from abstracts			
14:05	Valentina SLADKY (Innsbruck, Austria): The PIDDosome regulates hepatocyte polyploidization during liver development and regeneration			
14:20	Henning POPP (Mannheim, Germany): Accumulation of DNA damage and alteration of the DNA damage response in chronic myeloid leukemia			
14:35	Alireza NOORMOHAMMADI (Cologne, Germany): Prostaglandin signals from adult germ stem cells delay somatic aging of <i>C. elegans</i>			
14:50	Robert BAYERSDORF (Cologne, Germany): Autophagic responses after DNA damage in <i>Caenorhabditis elegans</i>			
15:05	Coffee break			

15:30 - 16:00 Session 1 (continued)

15:30 Jan HOEIJMAKERS (Rotterdam, Utrecht, The Netherlands / Cologne, Germany): The impact of DNA damage and nutrition on transcription, ageing and neurodegeneration in mice and patients

16:00 – 17:00	Workshop "Women in Science": Chairs: Ilse KRANNER (Innsbruck, Austria), Brigitte GALLIOT (Geneva, Switzerland), Robert REBITSCH (Innsbruck, Austria)
17:00 – 19:00	Poster Session 1 (posters # 01 - 18)

19:00 – 21:0	0 Reception			
	Day 2: Tuesday, Sept 10, 2019			
09:00 - 11:4	Session 2: Neuronal Ageing and Regeneration (Session Convener: Frank EDENHOFER, Innsbruck, Austria)			
09:00	Lorenz STUDER (New York, NY, USA): Modeling and treating age-related disorders using human pluripotent stem cells			
09:25	Oliver BRÜSTLE (Bonn, Germany): Programming stem cells for neurological disease modelling and repair			
09:50	Elly TANAKA (Vienna, Austria): Cell communication and cell potential during line regeneration			
10:15	Coffee break			
10:45	Selected oral presentations from abstracts			
10:45	Maja FUNK (Heidelberg, Germany): Deciphering mechanisms of age-related intestinal stem cell exhaustion by single-cell genomics			
11:00	Guohuan YANG (Vienna, Austria): Ribosomal RNA modifications in human dermal fibroblast senescence			
11:15	Yulia KARGAPOLOVA (Cologne, Germany): Impaired CHD6 function links autophagy and DNA damage response misregulation to premature ageing			
11:30	Ilija JEFTIC (Tucson, AZ, USA): Age-related defects in lymph node microenvironment and their reversal by an immunomodulatory treatment			
11:45	Lunch			

12:45-16:15 Session 3: Senescence and Ageing (Session Convener: Pidder JANSEN- DÜRR, Innsbruck, Austria)

- 12:45 Sebastian GRÖNKE (Cologne, Germany): A nutritional memory impairs survival, transcriptional and metabolic response to dietary restriction in old mice
- 13:10 Peter DE KEIZER (Utrecht, The Netherlands): Targeting senescent cells to improve tissue homeostasis in ageing
- 13:35 Joao PASSOS (Rochester, MN, USA): Mitochondria, telomeres and cell senescence: Implications for ageing and age-related diseases
- 14:00 Sara Annika WICKSTRÖM (Helsinki, Finland / Cologne, Germany): Mechanisms of stem cell fate regulation through niche-derived signals and forces
- 14:25 Coffee break
- 14:50 Carolina DOERRIER (Innsbruck, Austria): Mitochondrial fitness, degenerative diseases and aging

15:15 Selected oral presentations from abstracts

- 15:15 Dmytro GOSPODARYOV (Ivano-Frankivsk, Ukraine): Alternative NADH dehydrogenase extends lifespan and increases resistance to xenobiotics in *Drosophila*
- 15:30 Maria Sol JACOME (Nice, France): Mitochondrial function in skeletal myofibers is controlled by a TRF2-SIRT3 axis: Implications for muscle development and aging
- 15:45 Maria CAVINATO (Innsbruck, Austria): Involvement of mitophagy in the elimination of damaged mitochondria during the process of UVB-induced senescence
- 16:00 Dominik HANETSEDER (Vienna, Austria): Engineered extracellular matrix enhances the bone regeneration potential of aged human bone marrow stromal cells

16:15 – 17:15		Meet the Expert Session 1	
16:15		Elly TANAKA (Vienna, Austria), Jan VIJG (Bronx, NY, USA / Shanghai, China) Oliver BRÜSTLE (Bonn, Germany), Sebastian GRÖNKE (Cologne, Germany plus 6 young scientists each	
17:15		Buffet	
19:30 – 21:00		Public panel discussion: "Altern und Regenerationsmedizin: Wohin geh die Reise?" (for interested laypersons; in German)	
		Moderator: Marlene NOWOTNY Panel participants: Björn SCHUMACHER (Cologne, Germany), Lorenz STUDER (New York, NY, USA), Bishop Hermann GLETTLER (Innsbruck, Austria), Hans-Jörg EHNI (Tübingen, Germany)	
		Day 3: Wednesday, Sept 11, 2019	
09:00	FEBS pres	entation: Winnie ESKILD (Oslo, Norway)	
09:20 - 12:		ession 4: Evolutionary Aspects of Ageing and Regeneration (Session onvener: Ilse KRANNER, Innsbruck, Austria)	
09:20		AUX (Freiburg, Germany): Epigenetic regulation of plant stem cells links	
09:45	Yvonne ST	TAHL (Düsseldorf, Germany): Meristems - The stem cells of plants	
10:10	Coffee bre	eak	
10:35	Sergi MUN	NÉ-BOSCH (Barcelona, Spain): Ageing in perennial plants	
11:00	Brigitte GALLIOT (Geneva, Switzerland): Ageing and regeneration in <i>Hydra</i> , the impact of autophagy on stem cell behavior		
11:25	Selected oral presentations from abstracts		
11:25		VOGG (Geneva, Switzerland): Multiple head regeneration after turning cular switch: A sophisticated transcriptional network controls <i>Hydra</i> head cion	

- 11:40 Bert HOBMAYER (Innsbruck, Austria): Analysis of the interstitial stem cell system during ageing in *Hydra oliqactis*
- 11:55 Ute ROTHBÄCHER (Innsbruck, Austria): Linking *Ciona* larval settlement to ageing
- 12:10 Vicent CASELLES (Barcelona, Spain): Defining the threshold between life and death in *C. albidus*
- 12:30 Lunch
- 13:30 16:45 Session 5: Metabolism, Tissue Homeostasis and Ageing (Session Convener: Werner ZWERSCHKE, Innsbruck, Austria)
- 13:30 Pura MUÑOZ-CÁNOVES (Barcelona, Spain): Understanding muscle stem cell regenerative decline with aging
- 13:55 Ralf ADAMS (Münster, Germany): Molecular heterogeneity and functional specialization of vascular cells
- 14:20 Johannes GRILLARI (Vienna, Austria): Extracellular pathways in skin ageing
- 14:45 Coffee break
- 15:10 Stephan HERZIG (Munich, Germany): Metabolic reprogramming in agingassociated diseases
- 15:35 Luca SCORRANO (Padova, Italy): Keeping mitochondria in shape: A matter of life, ageing and death
- 16:00 Selected oral presentations from abstracts
- 16:00 Markus MANDL (Innsbruck, Austria): Sprouty1 is a weight-loss target gene in human adipose stem/progenitor cells affecting aging and adipogenic differentiation

- 16:15 Maria RICHTER (Munich, Germany): Single-nucleus RNA-seq2 reveals cell-to-cell transcriptional heterogeneity during ageing in adult liver
- 16:30 Alexander WEISS (Innsbruck, Austria): Fumarylacetoacetate Domain Containing Protein 1 acts as regulatory enzyme in the TCA cycle, and genetic inactivation of FAHD1 induces mitochondrial dysfunction, and associated senescence (MiDAS)

16:45 - 17:45 Meet the Expert Session 2

- 16:45 Lorenz Studer (New York, NY, USA), Peter de KEIZER (Utrecht, The Netherlands), Luca SCORRANO (Padova, Italy) plus 6 young scientists each
- 17:45 Poster Session 2 (posters # 19 37)
- 19:45 Poster Award Ceremony and Farewell
- 20:00 Buffet / Speakers' Dinner

Day 4: Thursday, Sept 12, 2019

09:00 – 10:30 Young Scientists' Career Workshop (SR 3114, 3rd floor)
grant applications, international mobility, entrepreneurship, mentoring, etc.

Frank EDENHOFER & Jerome MERTENS (Genomics, Stem Cells & Regenerative Medicine, University of Innsbruck), Barbara TASSER (International Relations, University of Innsbruck), Sara MATT-LEUBNER (Transferstelle Wissenschaft - Wirtschaft - Gesellschaft, University of Innsbruck), Robert REBITSCH (project.service.büro, University of Innsbruck)

10:30 Coffee break

11:00 – 17:00 DP AGE-REG Special Event (SR 3114, 3rd floor) AGE-REG faculty and students only