



JOINT AGE_REG & ARDRE SYMPOSIUM

APRIL 28-29, 2021, INNSBRUCK, AUSTRIA



Doctoral Programme Ageing & Regeneration



Doctoral Programme Ageing, Regeneration, and Drug Research



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JOINT ARDRE & AGE_REG Symposium

APRIL 28-29, 2021 - virtual meeting via ZOOM

Preliminary Programme

WEDNESDAY, APRIL 28, 2021

1:00 p.m. - 6:45 p.m.

1:00 - 1:10 p.m. **WELCOME ADDRESS & INTRODUCTION**
Pidder **JANSEN-DÜRR**, IBA, LFUI, Innsbruck, Austria

*Chair: Pidder **JANSEN-DÜRR***

1:10 - 2:00 p.m. **PLENARY TALK I**
Markus **SCHOSSENER**, BOKU Vienna, Austria - Molecular Biotechnology
RNA modifications are novel modulators of aging and senescence

AGING RESEARCH

*Session Chairs: Pidder **JANSEN-DÜRR**, Ilse **KRANNER**, Hermann **STUPPNER**, Werner **ZWERSCHKE***

Please note all presentations have a 15 min slot. Please prepare a PowerPoint presentation that lasts for up to 12 min maximum to allow 3 min for discussion after your talk

2:00 - 2:15 p.m. Max **HOLZKNECHT**, DP AGE-REG, LFUI, IBA
FAHD Proteins as potentially druggable onco-targets

2:15 - 2:30 p.m. Camille **BRUCKER**, DP ARDRE, LFUI, IBA
Role of weight-loss target genes in proliferation, senescence, and differentiation of human adipogenic stem/progenitor cells

2:30 - 2:45 p.m. Lena **GUERRERO NAVARRO**, DP ARDRE, LFUI, IBA
Role of mitochondria-lysosome interaction in skin aging

2:45 - 3:00 p.m. Magdalena **HAGEN**, DP AGE_REG, LFUI, IBA
mir-142s modulate follicular B cell migratory properties in young and old mice

3:30 - 3:15 p.m. Sophia **WEDEL**, DP AGE_REG, LFUI, IBA
GDF15 Guards Skin Fibroblasts from Premature Senescence

3:15 - 3:45 p.m. *coffee break*

3:45 - 4:00 p.m. Ines **MARTIC**, DP AGE_REG, LFUI, IBA
tBHP vs UVB: how different environmental stressors affect melanocytes regarding skin pigmentation, senescence and skin aging

4:00 - 4:15 p.m. Cornelia **FÖRDERER**, DP ARDRE, LFUI, Institute of Botany
The life cycle of plants: Metaboloc changes from seed germination to plant senescence

4:15 - 4:30 p.m. Nicki **MARAMI ZONOUEZ**, DP AGE REG, LFUI, Institute of Botany
Molecular Mechanisms of Ageing and Regeneration across different Kingdoms of Life: A Comparison of Plant Seeds and Hydra

4:30 - 4:45 p.m. Lucas **HENSEN**, DP ARDRE, LFUI, Biochemistry
Tryptophan metabolism in glioblastoma

4:45 - 5:00 p.m. Christoph **SCHATZ**, MUI, Department of Pathology
A Profound Basic Characterization of eIF5 in Gliomas: Identifying eIF3I and 4H as Potential Novel Target Candidates in

5:00 - 5:30 p.m. *coffee break*

REGENERATION RESEARCH

*Session Chairs: Bert **HOBMAYER**, Ute **ROTHBÄCHER**, Frank **EDENHOFER**, Dirk **MEYER***

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5:30 - 5:45 p.m. Marion **LECHABLE**, DP ARDRE, LFUI, Department of Zoology
cWnt-Myc signaling in stem cells making decision and regeneration in Hydra

5:45 - 6:00 p.m. Alessandro **PENNATI**, DP ARDRE, LFUI, Department of Zoology
Conservation of regulatory developmental mechanisms and repressive signalling effectors in tunicates

6:00 - 6:15 p.m. Nargess **SHAHBAZI**, DP ARDRE, LFUI, Department of Molecular Biology
Analysis of facultative stem cells in the Zebrafish pancreas

6:15 - 6:30 p.m. Marc **SATHIANATHAN**, DP AGE-REG, LFUI, Department of Molecular Biology
Determine the MNX1-regulated network of human in vitro beta-cell differentiation

6:30 - 6:45 p.m. Melanie **ZOTT**, DP AGE-REG, LFUI, Department of Molecular Biology
Molecular regulation of beta-cell fate determination and maintenance

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THURSDAY, APRIL 29, 2021

9:00 a.m. - 12:30 p.m.

Chair: Kathrin THEDIECK

9:00 - 9:45 a.m.

PLENARY TALK II

Christiane **OPITZ**, DKFZ, Heidelberg, Germany - Brain Cancer Metabolism
Tryptophan catabolism and immune regulation

REGENERATION RESEARCH

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9:45 - 10:00 a.m.

Angeliki **SPATHOPOULOU**, DP ARDRE, LFUI, Department of Molecular Biology
Analyzing reprogramming trajectories of direct conversion of human fibroblasts into iNSCs for studying neural regeneration and neurodevelopmental disorders

10:00 - 10:15 a.m.

Julianne **BEIRUTE HERRERA**, DP AGE_REG, LFUI, Department of Molecular Biology
Characterization of human-specific cell cycle regulators in hNSCs using CRISPRi

10:15 - 10:30 a.m.

Lena **BOEHNEKE**, DP AGE_REG, LFUI, Department of Molecular Biology
Induced neurons to evaluate psychiatric risk for Alzheimer's disease development and progression

10:30 - 10:45 a.m.

Marcel **TISCH**, DP AGE_REG, LFUI, Department of Molecular Biology
Pathophysiological effects of Autism-Spectrum-Disorder risk mutations in human cell culture models

10:45 - 11:00 a.m.

Nikita **ARNST**, DP AGE_REG, LFUI, Department of Molecular Biology
Deficiency in pro-amyloidogenic proteinase MT5-MMP supports branching of human iPSC-derived neurons and reduces expression of GLAST/S100b in induced astrocytes. Progerin age-induced model: current results and future

11:00 - 11:30 a.m.

coffee break

DRUG RESEARCH

Session Chairs: Klaus LIEDL, Thomas MAGAUER, Jörg STRIESSNIG

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11:30 - 11:45 a.m.

Ferenc **TÖRÖK**, DP ARDRE, LFUI, Department of Pharmacology & Toxicology
Discovery of Subtype-Selective Voltage-Gated Ca²⁺ channel blockers

11:45 - 12:00 a.m.

Xuechen **TANG**, DP ARDRE, LFUI, Department of Theoretical Chemistry
Predictive model of functional effects for voltage-gated calcium channel mutations

12:00 - 12:15 p.m.

Aldo **TANCREDI**, DP ARDRE, LFUI, Department of Organic Chemistry
Towards the total synthesis of natural products containing nine-membered carbocycles

12:15 - 12:30 p.m.

Eduardo **VILLICANA-GONZÁLEZ**, DP ARDRE, LFUI, Institute of Pharmacy, Pharmacognosy
Cultivation, phytochemical characterization, and in vitro gastro-intestinal catabolism of secondary metabolites of edible and/or pharmacological relevant lichen species with a focus on Cetraria islandica

12:30 p.m.

end of meeting