



**April 1, 2019, Monday**

10:00-14:00

**Arrival and registration**

14:00-14:20

**Opening remarks**

**SESSION 1: MOLECULAR LAYERS OF SENESCENCE REGULATION**

Chair: **Salma Balazadeh, MPI of Molecular Plant Physiology, Germany**

14:20-15:10

**Hong Gil Nam, Center for Plant Aging Research, IBS, Dageu, South Korea**  
*Networks of clocks and senescence and their transition in plant aging*

15:10-15:30

**Sarah Lederer, Freie Universität Berlin, Germany**  
*Calcium and CDPK in the longevity of plants*

15:30-15:50

**Purva Karia, University of Toronto, Canada**  
*The mitochondrial tail-anchored protein TTM1 mediates ABA-induced senescence*

15:50-16:20

**Coffee break**

Chair: **Sucheng Gan, Cornell College of Agriculture and Life Sciences, USA**

16:20-16:50

**Pyung Ok Lim, DGIST, Daegu, South Korea**  
*Multidimensional approaches toward understanding leaf senescence: from omics to ecology*

16:50-17:10

**Iman Kamranfar, University of Potsdam, Germany**  
*NAC transcription factor RD26: a key regulator of catabolism during senescence*

17:10-17:30

**Nico Dissmeyer, Leibniz Institute of Plant Biochemistry (IPB), Halle, Germany**  
*Conditional protein function via N-degron pathway mediated proteostasis in stress physiology*

17:30-17:50

**Zhonghai Li, Center for Plant Aging Research, IBS, Daegu, Republic of Korea**  
*ATM suppresses leaf senescence triggered by DNA double-strand break through epigenetic control of senescence-associated genes in Arabidopsis*

18:00-21:00

**Welcome Reception at Venue**

**April 2, 2019, Tuesday**

**SESSION 2: HORMONAL AND METABOLIC CONTROL OF SENESCENCE**

Chair: **Karin Krupinska, Institute of Botany, CAU Kiel, Germany**

9:00-9:50

**Sucheng Gan, Cornell College of Agriculture and Life Sciences, USA**  
*Making sense and use of senescence*

9:50-10:10

**Amnon Lers, ARO, The Volcani Center, Rishon LeZion, Israel**  
*T2-type Ribonuclease function in ethylene associated processes*

10:10-10:30

**Kewei Zhang, Zhejiang Normal University, China**  
*Feedback induction of salicylic acid hydroxylation serves as a brake in leaf senescence*

10:30-11:00

**Coffee break**

Chair: **Pyung Ok Lim, DGIST, Daegu, South Korea**

11:00-11:30

**Hong-Wei Guo, SUSTech, Schenzen, China**  
*Integrative regulation of plant senescence by an EBFs-EIN3 module*

11:30-11:50

**Yongfeng Guo, Tobacco Research Institute, Qingdao, Shandong, China**  
*The small peptide CLE14 regulates natural and salinity-induced leaf senescence via JUB1-mediated homeostasis of reactive oxygen species (ROS) in Arabidopsis*

11:50-12:10

**Marta Juvany, Umeå Plant Science Center, Sweden**  
*Metabolic adjustments required for extended leaf longevity under prolonged darkness*

12:10-12:30

**Rumana Keyani, COMSATS University, Islamabad, Pakistan**  
*NUCLEOREDOXIN guards against oxidative stress by protecting antioxidant enzymes*

12:30-14:00

**Lunch**

### **SESSION 3: STRESS-INDUCED SENESCENCE**

Chair: Hong Gil Nam, Center for Plant Aging Research, IBS, Dageu, South Korea

- 14:00-14:50 **Rashmi Sasidharan, Utrecht University, The Netherlands**  
*Flooding stress survival: anticipate, acclimate and reanimate*
- 14:50-15:10 **Shimon Gepstein, Kinneret College and the Technion, Israel**  
*Releasing the brakes: cytokinins delay senescence and confer extreme drought tolerance by desensitization of environmental clues*
- 15:10-15:30 **Nazeer Fataftah, Umeå University, Sweden**  
*The capacity of changes in inorganic and organic nitrogen level to influence autumn leaf senescence in aspen*
- 15:30-16:00 **Coffee break**
- Chair: Shimon Gepstein, Kinneret College and the Technion, Israel
- 16:00-16:20 **Wolfgang Dröge-Laser, Julius-Maximilians-Universität Würzburg, Germany**  
*The SnrK1-C/S1 bZIP transcription factor network supports metabolic reprogramming and survival during dark-induced senescence*
- 16:20-16:40 **Françoise Le Cahérec, Institut de Génétique, Environnement et Protection des Plantes, France**  
*Involvement of oilseed rape PI-WSCPs "Protease Inhibitors - Water Soluble Chlorophyll Binding Proteins" in nitrogen management and stress tolerance*
- 16:40-17:00 **Moez Hanin, University of Sfax, Tunisia**  
*The RSS1-PP1 pathway and its role in plant tolerance to abiotic stresses*
- 17:00-17:15 **Charlotte Ost, Martin-Luther-Universität Halle-Wittenberg, Germany**  
*BEP - Barley Epigenome Project*
- 17:15-17:30 **Christina Mohr, Martin-Luther-Universität Halle-Wittenberg, Germany**  
*Transcriptomics of stress induced and development dependent senescence in barley*
- 17:30-19:00 **Poster session**

**April 3, 2019, Wednesday**

### **SESSION 4: TISSUE- AND ORGAN-SPECIFIC ASPECTS OF SENESCENCE**

Chair: Amnon Lers, ARO, The Volcani Center, Rishon LeZion, Israel

- 9:00-9:50 **Mark Aurel Schoettler, MPI of Molecular Plant Physiology, Germany**  
*Systems biology of leaf ontogenesis in tobacco – from thylakoid biogenesis to senescence*
- 9:50-10:10 **Shimon Meir, Agricultural Research Organization (ARO), The Volcani Center, Israel**  
*Cell separation as a final stage of flower senescence: Novelty and challenges in controlling floral abscission*
- 10:10-10:30 **Nico von Wirén, Leibniz-Institute of Plant Genetics & Crop Plant Research, Gatersleben, Germany**  
*Characterization of plant age-dependent root senescence in barley*
- 10:30-11:00 **Coffee break**
- Chair: Hilary Rogers, Cardiff University, UK
- 11:00-11:40 **Remko Offringa, Leiden University, The Netherlands**  
*A suppressor of axillary meristem maturation promotes longevity in flowering plants*
- 11:40-12:10 **Moritz Nowak, VIB, Gent, Belgium**  
*KIRA1 and ORESARA1 terminate flower receptivity by promoting senescence-induced programmed cell death in the Arabidopsis stigma*
- 12:10-12:30 **Annika Wein, Albert-Ludwigs Universität Freiburg, Germany**  
*Stem cell ageing in the Arabidopsis thaliana root*
- 12:10-12:30 **Luise H. Brand, Max Planck Institute for Plant Breeding Research, Germany**  
*Characterization of stem senescence of annual and perennial Brassicaceae species*
- 12:30-14:00 **Lunch and poster session**

### **SESSION 5: AUTOPHAGY AND SENESCENCE**

Chair: Nico von Wirén, Leibniz-Institute of Plant Genetics & Crop Plant Research, Germany

- 14:00-14:50 **Richard Vierstra, University of Wisconsin, Madison, USA**

14:50-15:20	<b>Autophagy, the master of bulk and selective recycling</b> <b>Tamar Avin-Wittenberg, Hebrew University of Jerusalem, Israel</b>
15:20-15:40	<b>Autophagy and nutrient remobilization during senescence</b> <b>Anne Marmagne, Institut Jean-Pierre Bourgin, INRA, France</b> <i>Autophagy and plant proteases for N remobilization during leaf senescence</i>
15:40-15:55	<b>Jie Luo, Institut Jean-Pierre Bourgin, INRA, France</b> <i>Multiple omics uncover the roles of autophagy on maintaining the balance of endomembrane compositions in Arabidopsis</i>
15:55-16:10	<b>Venkatesh Thriumalaikumar, MPI of Molecular Plant Physiology, Germany</b> <i>Selective autophagy regulates thermomemory in Arabidopsis thaliana</i>
18:00	<b>Bus transfer to Potsdam</b>
19:00-23:00	<b>Conference dinner, Potsdam, Park Sanssouci</b>

**April 4, 2019, Thursday**

#### **SESSION 6: RELATED TALKS**

Chair: **Bernd Mueller-Roeber, University of Potsdam, Germany**

9:00-9:50	<b>Niels Stein, IPK Gatersleben and University of Göttingen, Germany</b> <b>From genome to pan-genome in barley and wheat</b>
9:50-10:40	<b>Zach Adam, The Hebrew University, Israel</b> <b>Chlorophyll catabolism precedes changes in chloroplast structure and proteome during leaf senescence</b>
10:40-11:10	<b>Coffee break</b>

#### **SESSION 7: NUTRIENT RECYCLING AND PLANT PRODUCTIVITY**

Chair: **Moez Hanin, University of Sfax, Tunisia**

11:10-11:30	<b>Karin Krupinska, Institute of Botany, CAU Kiel, Germany</b> <i>The senescence associated barley cysteine protease HvPAP14 is targeted to chloroplasts and contributes to the degradation of the photosynthetic apparatus</i>
11:30-11:50	<b>Claus-Peter Witte, Leibniz University Hannover, Germany</b> <i>Nucleotide catabolism recycles nucleobase nitrogen</i>
11:50-12:10	<b>Isabel Schumacher, University of Zurich, Switzerland</b> <i>Evolutionary aspects of chlorophyll breakdown</i>
12:10-12:30	<b>Su-Hyun Park, Temasek Life Sciences Laboratory, Singapore</b> <i>Arabidopsis Ubiquitin-specific Proteases UBP12 and UBP13 shape ORE1 Levels during Leaf Senescence induced by Nitrogen Deficiency</i>
12:30-12:50	<b>Sichul Lee, Center for Plant Aging Research, IBS, Daegu, Republic of Korea</b> <i>Natural variations of the Stay Green gene promoter control lifespan and yield in rice cultivars</i>
12:50-14:00	<b>Lunch</b>

#### **SESSION 8: POSTHARVEST PHYSIOLOGY AND SENESCENCE**

Chair: **Shimon Meer, ARO, The Volcani Center, Rishon LeZion, Israel**

14:00-14:30	<b>Donald Hunter, The New Zealand Institute for Plant &amp; Food Research Limited, New Zealand</b> <b>New insights into the molecular control of postharvest senescence through study of Arabidopsis inflorescences</b>
14:30-14:50	<b>Lucien Bovet, Philip Morris International (PMI), Neuchâtel, Switzerland</b> <i>Metabolic and transcriptomic shifts during tobacco leaf post-harvest senescence</i>
14:50-15:10	<b>Tie Liu, University of Florida, Gainesville, USA</b> <i>Discovering the genes that are involved in postharvest senescence in broccoli (Brassica oleracea)</i>
15:10-15:30	<b>Sonia Philosoph-Hadas, ARO, The Volcani Center, Rishon LeZion, Israel</b> <i>Retardation of cut flower senescence by regulation of anthocyanin pigmentation: Role of light, sugar, and developmental stage</i>
15:30-15:50	<b>Hilary Rogers, Cardiff University, UK</b> <i>Short-term stress affects profiles of volatile organic compounds and gene expression in rocket salad during postharvest senescence</i>
15:50-16:00	<b>Concluding remarks</b>