# iGRAD-Plant Retreat 2021 – Program

## Day 1 – Wednesday, Oct 6, 2021

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| **10:15** | **10:40** | **Registration - Heinrich-Heine Saal (2nd floor)** | | |
| **10:40** | **11:00** | **Welcome – Andreas Weber** | | |
| 11:00 | 11:20 | Vanessa Reichel-Deland | Unraveling drought signal transduction of the facultative CAM plant *Talinum fruticosum* in orthogonal systems | Chair: Francesco |
| 11:20 | 11:40 | Mara Schultz | The role of UPF0016 members in manganese homeostasis of photoautotrophs | |
| 11:40 | 11:50 | Katarzyna Krawczyk | Peroxisomes of photosynthetic organs - modulate resource allocation during abiotic stress | |
| 11:50 | 12:00 | Ghazala Butt | Transcriptional regulation of systemic acquired resistance | |
| 12:00 | 12:10 | Jonas Schön | Quantitative understanding of the ethylene signaling network through synthetic reconstruction and optogenetic control in orthogonal mammalian cell systems | |
| **12:10** | **13:25** | **Lunch Break** | | |
| 13:30 | 13:50 | Sajjad Ghaffarinasabsharabiani | The effect of metabolic network size in adaptability of unicellular organisms | Chair: Tim |
| 13:50 | 14:10 | Allegra Corelli Grappadelli | Mass spectrometrical imaging method development for studying cell wall polymers | |
| 14:10 | 14:30 | Isaia Vardanega | Identification and characterization of CLV receptors and CLE peptides regulating barley shoot meristem maintenance and development | |
| **14:30** | **14:55** | **Coffee Break** | | |
| **15:00** | **15:20** | **Welcome – Susanne Hoffmann-Benning & Andreas Weber** | | |
| 15:20 | 15:50 | Shin Han Shiu | IMPACTS - Integrated training Model in Plant and Computational Sciences | Chair: Ksenia |
| 15:50 | 16:15 | Michael Feldbrügge | Linking transport and translation of mRNAs with endosomes and mitochondria | |
| **16:20** | **16:40** | **Coffee Break** | | |
| 16:40 | | Vera Göhre | Living inside the host for years: the novel smut fungus *Thecaphora thlaspeos* as a model pathogen in model plants | Chair: Natascha |
| | 17:20 | Lesley Plücker | Mg2+ transport and its role for virulence in the smut fungus *Ustilago maydis* | |
| 17:20 | | Petra Bauer | Iron deficiency signaling networks and integration during the life of a plant | |
| | 18:00 | Dibin Baby | Can IRONMAN vanquish BRUTUS' acts? A saga of plant transcription factors in Fe acquisition pathway | |
| **18:00** | **18:15** | **Closing Day 1** | | |

## Day 2 – Thursday, Oct. 7, 2021

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| **11:00** | **11:10** | **Welcome** | | |
| 11:10 | 11:30 | Ksenia Trofimov | Analysis of subcellular organization within the iron uptake regulation in plants | Chair: Lesley |
| 11:30 | 11:50 | Natascha Heßler | Sugar partitioning between the Brassicaceae smut fungus *Thecaphora thlaspeos* and its host plants | |
| 11:50 | 12:10 | Chen Deng | Identification and characterization of a sugar allocation system in *Arabidopsis-B. Cinerea* interaction | |
| **12:10** | **13:25** | **Lunch Break** | | |
| 13:30 | 13:50 | Gesa Helmsorig | *HvLWD1* is a candidate gene underlying the *early maturity 7* (*eam7*) locus in barley | Chair: Isaia |
| 13:50 | 14:10 | Tianyu Lan | Effects of High Ambient Temperature on Inflorescence Development in Barley (*Hordeum vulgare*) | |
| 14:10 | 14:30 | Francesco Cosenza | Combined single population and multi-parent population QTL analysis to detect loci involved in control of flowering time and plant height in barley | |
| **14:30** | **14:55** | **Coffee Break** | | |
| 15:00 | 15:30 | Danny Ducat | PhotoSynthetic: Using synthetic biology approaches to gain insight into natural metabolic processes in cyanobacteria | Chair: Vanessa |
| 15:30 | | Shizue Matsubara | Thylakoid maintenance and remodeling — from a point of view of pigments | |
| | 16:10 | Ana Carolina dos Santos Sá | Natural variation in sink-source interaction and carbon allocation in Arabidopsis thaliana under fluctuating environment | |
| 16:10 | | Oliver Ebenhöh | Quantitative models of photosynthetic acclimation | |
| | 16:50 | Tim Nies | Investigating Photoinhibition by Computational Modelling | |
| **16:50** | **17:10** | **Coffee Break** | | |
| 17:10 | 17:35 | Matias Zurbriggen | Engineering photoreceptors into optogenetic tools for the control and understanding of cellular processes in microbial, animal and plant systems | Chair: Gesa |
| 17:35 | 18:05 | Amanda Koenig & Martin Kulke | Examples of national and international collaborations: Use of molecular simulation and optogenetics to understand protein-lipid interactions in long-distance signaling | |
| **18:05** | **18:15** | **Closing Day 2** | | |
| **18:45** | | **BBQ** | | |

## Day 3 – Friday, Oct 8, 2021

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| **09:45** | **13:00** | **Social Event: City Rallye – Team Challenge** |