

**Plant Breeding Institute**

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**Recent Progress in Plant Breeding and Genome Research  
(agrigr018)**

*Literature club: Current trends in plant breeding and genome research*

Winter semester 2020/21

Time: Friday, 08.30 – 09.15

Location: Online seminar

06.11.2020	Kea Ille	Debernardi et al. (2020) A GRF-GIF chimeric protein improves the regeneration efficiency of transgenic plants. Nat Biotechnology
13.11.2020	Nathaly Maldonado	Yuste-Lisbona et al. (2020) ENO regulates tomato fruit size through the floral meristem development network PNAS 117: 8187
20.11.2020	Ehsan Fatemi	Wang et al. (2020) Horizontal gene transfer of Fhb7 from fungus underlies Fusarium head blight resistance in wheat. Science 368
27.11.2020	Dr. Tahmina Islam	Cheng et al. (2020) Base editing with high efficiency in allotetraploid oilseed rape by A3A-PBE base editing system. Plant Biotechnol J
04.12.2020	Sarah Matar	Akagi et al. (2019) Two Y-chromosome-encoded genes determine sex in kiwifruit. Nat Plants. 5: 801
11.12.2020	Avneesh Kumar	Zhou et al. (2020) Haplotype-resolved genome analyses of a heterozygous diploid potato. Nat Genet 52: 1018
18.12.2020	Dilan Sarange	Sansaloni et al. (2020) Diversity analysis of 80,000 wheat accessions reveals consequences and opportunities of selection footprints. Nat Commun 11: 4572
08.01.2021	Yixin Cui	Beying et al. (2020) CRISPR–Cas9-mediated induction of heritable chromosomal translocations in Arabidopsis. Nat Plants 6: 638
15.01.2021	Dr. Nirosha Karunarathna	Qi et al. 2020 Genome Editing Enables Next-Generation Hybrid Seed Production Technology. Molecular Plant
22.01.2021	Dr. Siegbert Melzer	Shalit-Kaneh et al. (2019) The flowering hormone florigen accelerates secondary cell wall biogenesis to harmonize vascular maturation with reproductive development. PNAS 116: 16127
29.01.2021	Srijan Jhingan	Li et al. (2020) Targeted, random mutagenesis of plant genes with dual cytosine and adenine base editors. Nat Biotechnology
05.02.2021	Dr. Hans Harloff	Maeda et al. (2019) A rice gene that confers broad-spectrum resistance to $\beta$ -triketone herbicides. Science 365: 393
12.02.2021	Amar Dhiman	Todesco et al. (2020) Massive haplotypes underlie ecotypic differentiation in sunflowers. Nature 584: 602

Guests are welcome!

Prof. Dr. Christian Jung and Dr. Siegbert Melzer