Mandatory Elements

## Publications

**Freudenthal, J. A**., Ankenbrand, M. J., Grimm, D. G., & Korte, A. (2019). GWAS-Flow: A GPU accelerated framework for efficient permutation based genome-wide association studies. *BioRxiv*, 783100.

**Freudenthal, J. A**., Pfaff, S., Terhoeven, N., Korte, A., Ankenbrand, M. J., & Foerster, F. (2019). The landscape of chloroplast genome assembly tools. *bioRxiv*, 665869.

Togninalli, M., Seren, Ü., **Freudenthal, J. A.**, Monroe, J. G., Meng, D., Nordborg, M., ... & Grimm, D. G. (2019). AraPheno and the AraGWAS Catalog 2020: a major database update including RNA-Seq and knockout mutation data for Arabidopsis thaliana. *Nucleic acids research*.

## International Symposia

23 – 27 Mar 2017; International Conference on Selection Theory and Breeding Methodology

Technische Universität München, Freising, Germany

4 – 6 Sept 2017; IOBC-WPRS Conference, GMOs in Integrated Plant Production. Ghent, Belgium.

10 – 11 Oct 2018; 13th International GSLS Student Symposium Eureka! Würzburg, Germany Contribution: Poster “Genomic Prediction of Plant Phenotypes using Artificial Neural Networks.

13 – 15 Mar 2019; Plant 2030 Statusseminar 2019, Potsdam, Germany. Contribution: Poster “ Improving Prediction Accuracies of Genomic prediction using Artificial Neural Networks

## Group Seminar(s)

SS 2016 - WS 2019/20; AG Evolutionary Genomics, CCTB, Prof. Arthur Korte weekly, 1hr

## Journal Club(s)

SS 2009 - WS 2012/13; AG Müller, Prof. Dr. Muster Müller, weekly, 1hr

## Jour Fixe

SS 2010 - WS 2013/14; GK Circulation, Prof. Dr. Example Schmitt, monthly, 2hrs

*Or, e.g.,*

SS 2010 - WS 2013/14; Institute of Vascular Medicine Seminar, Prof. Dr. Example Schmitt, monthly, 2hrs

## Retreats / Summer Schools

9 -11 Feb 2017; CCTB Retrat

25 Mar – 1 Apr 2017; TUM Spring School on Selection Theory, Hersching amd Ammersee, Germany.

20 Aug – 7 Sep 2017; Modern breeding techniques of maize at the IPBO of the VIB of the University of Ghent, Belgium

5 – 7 Mar 2018; CCTB Retrat

24 - 28 Sep 2018; Deep Learning Bootcamp at the MPI CBG , Dresden Germany.

18 -20 Mar 2019; CCTB Retreat

Elective Elements

## Scientific Methods Courses

26 - 27 Jul 2010; Working with Statistics, Graduate School of Life Sciences, Würzburg, Germany

14 - 19 Apr 2010; Course in Laboratory Animal Protection and Welfare, University of Würzburg, Germany

## Transferable Skills Courses

12 - 13 Jun 2011; Giving Academic Talks in English, Graduate School of Life Sciences, Würzburg, Germany

## Research Stay

2 Apr - 15 May 2011; Learning Flow Cytometry methods with Prof. Dr. Thomas Brown, AG Brown, University of Maryland, Maryland, USA

## Additional Activities

Oct 2012 - Apr 2013; Supervision of bachelor student, project “Analysis of thrombocytopenia in x6p-knockout mice”

Jan - Feb 2012; Member of organising committee for 3rd Annual GK Circulation Retreat