

## Prof. Dr. Annette Becker – Curriculum Vitae and Selected Publications

### Work:

Department of Botany  
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### Home:

Hof Haina  
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3 children, born in 2005, 2007, 2012

### Education and Academic Career

Since 2012 Full Professor of Botany (Plant Developmental Biology), W2, JLU Gießen  
2005-2011 Juniorprofessor of Molecular Genetics, W1, University of Bremen  
2003 – 2005 Postdoc, Monash University, Melbourne, Australia, with Prof. Dr. David Smyth  
2001 – 2003 Postdoc, Max-Planck-Institute for Breeding Research, Cologne; Westphalian Wilhelms University of Münster; Friedrich Schiller University Jena, all with Prof. Dr. Günter Theißen  
2001 Dr. rer. nat. (Ph.D. equivalent) in Genetics, University of Cologne and Max-Planck-Institute for Breeding Research Cologne  
1997 Diploma in Biology  
1991 – 1997 Studying Biology at the Eberhardt Karls University Gießen; Georg August University Göttingen; University of Oulu, Finland; Florida State University, Tallahassee, FL, USA  
1991 Abitur, Jacob Grimm Gesamtschule Rotenburg/Fulda

### Current and Past Research Funding

- DFG BE 2547/14-1: “Phylotranskriptomik des genetischen Baukastens der Karpellentwicklung – eine evo-devo Studie zum Ursprung der Blütenpflanzen”
- DAAD PPP Finnland: „Revealing the ancestral functions of CYC/TB1-like TCP transcription factor genes in basal eudicots“
- DFG BE 2547/12-1: SPP 1347 “Biodiversitätsexploratorien”: Vergleichende Transkriptomanalyse und phänotypisches Monitoring von *Trifolium pratense* (Fabaceae) unter Landnutzungsaspekten”
- University of Bremen, Small Grant: The role of SUMOylation in plant development
- DFG BE 2547/9-1: SPP (Schwerpunktprogramm) 1529 “Brassicaceae Adaptomics”: Adaptomics of Neofunctionalization: An Analysis of the *GORDITA*-like genes in Brassicaceae.
- University of Bremen, Small Grant: Comparative carpel transcriptomics
- DFG BE 2547/8-1: Functional and evolutionary significance of the Bsister genes
- University of Bremen, Small Grant: Functional characterization of the *Arabidopsis* *ABS* and *AGL63* genes
- DFG BE 2547/7-2: Functional diversification of class 1 KNOX genes in basal eudicots

- DFG GL213/3-1: (was awarded to AB when GL left for a position abroad): Functional diversification of class 1 KNOX genes in eudicot leaf development
- DFG BE 2547/6-2: Evolutionary genetics of carpel development using California poppy (*Eschscholzia californica*) as a model species
- DFG BE2547/6-1: Evolutionary genetics of carpel development using California poppy (*Eschscholzia californica*) as a new model species
- DFG BE2547/5-1: Evo-devo of carpels: Establishing *Eschscholzia californica* as a basal eudicotyledonous model system
- Monash University, Melbourne, Australia, Small Grant (2004)

### Ten selected peer reviewed publications

1. Becker A (2016) Tinkering with transcription factor networks for developmental robustness of Ranunculales flowers. **Annals of Botany** 117: 845-858
2. Bhide A, Schliesky S, Reich M, Weber A PM, Becker A (2014) Analysis of the floral transcriptome of *Tarenaya hassleriana* (Cleomaceae), a member of the sister group to the Brassicaceae: towards understanding the base of morphological diversity in Brassicales, **BMC Genomics** 15:140
3. Cheng S, van den Bergh E, Zeng P, Zhong X, Xu J, Liu X, Hofberger J, de Bruijn S, Bhide A S, Kuelahoglu C, Bian C, Chen J, Fan G, Kaufmann K, Hall J C, Becker A, Bräutigam A, Weber A PM, Shi C, Zheng Z, Li W, Lv M, Tao Y, Wang J, Zou H, Quan, Z, Hibberd J M, Zhan G, Zhu X-G, Xu X, Schranz M E (2013) The *Tarenaya hassleriana* Genome Provides Insight into Reproductive Trait and Genome Evolution of Crucifers, **Plant Cell** 25: 2813-2830
4. Lange M, Orashakova S, Lange S, Melzer R, Theißen G, Smyth DR, Becker A (2013) The seirena B class floral homeotic mutant of California Poppy (*Eschscholzia californica*) reveals a function of the enigmatic PI motif in the formation of specific multimeric MADS domain protein complexes. **Plant Cell** 25:438-53
5. Lange M, Becker A (2010) VIGS - genomics goes functional. **Trends in Plant Sciences** 15: 1-4
6. Erdmann R, Gramzow L, Melzer R, Theißen G, Becker A (2010) AGL63/GOA is a recently duplicated *Arabidopsis thaliana* B-sister MADS-box gene that has undergone neofunctionalization. **Plant J** 63:914-924
7. Orashakova S, Lange M, Lange S, Wege S, Becker A (2009) The *CRABS CLAW* ortholog from the basal eudicot California poppy (*Eschscholzia californica*), *EcCRC*, is involved in floral meristem termination and gynoecium development. **Plant J** 58: 682–693
8. Becker A, Theißen G. (2003) The major clades of MADS-box genes and their role in the development and evolution of flowering plants. **Mol Phyl Evol**, 29(3): 464-489
9. Becker A, Winter K-U, Meyer B, Saedler H, Theißen G. (1999) MADS-box gene diversity in seed plants 300 million years ago. **Mol Biol Evol** 17:1425-1434
10. Winter KU, Becker A, Münster T, Kim JT, Saedler H, Theissen G.(1999), MADS-box genes reveal that gnetophytes are more closely related to conifers than to flowering plants. **Proc Natl Acad Sci USA** 96:7342-7