

Frank Wellmer - Curriculum Vitae

PERSONAL DETAILS

Address: Division of Biology 156-29
California Institute of Technology
Pasadena, CA 91125, USA

Phone: +1 (626) 395-8438
Fax: +1 (626) 449-0756
Email: wellmer@caltech.edu

Date of Birth: May 5, 1970

Nationality: German

ACADEMIC EDUCATION

December 1998 Ph.D. in Biology, *summa cum laude*

1996-1998 Graduate Program "Molecular Mechanisms of Plant Differentiation", University of Freiburg (Germany)
Biochemical characterization of bZIP-type transcription factors from parsley
Advisors: Dr. Eberhard Schäfer and Dr. Klaus Harter

November 1995 M.S. in Biology

11/1994 – 11/1995 Master's Thesis, Department of Biophysics, University of Osnabrück (Germany)
Functional analysis of the ϵ -subunit of the chloroplast ATP-synthase
Advisors: Dr. Wolfgang Junge and Dr. Siegfried Engelbrecht

1990 – 1995 University of Osnabrück (Germany)

PROFESSIONAL EXPERIENCE

9/2005 – Present Senior Research Fellow, California Institute of Technology

10/1999 – 8/2005 Postdoctoral Scholar, California Institute of Technology
Analysis of the gene regulatory networks underlying *Arabidopsis* flower development
Advisor: Dr. Elliot M. Meyerowitz

01/1999 - 08/1999 Staff Member, University of Freiburg (Germany)

TEACHING EXPERIENCE

- 2003 and 2001 Participation in the Summer Undergraduate Research Fellowship Program at Caltech. Advisor to undergraduate students conducting an independent research project during a two month-long stay in the laboratory.
- 1998 Training and supervision of teaching assistants for a beginners course in plant physiology (University of Freiburg).
- 1997 and 1998 Teaching assistant for an advanced course in plant physiology (University of Freiburg).
- 1997 Teaching assistant for a beginners course in plant physiology (University of Freiburg).

FELLOWSHIPS AND AWARDS

- Emmy Noether Fellowship of the German Research Council (10/1999-9/2001)
- Hans Grisebach Ph.D. Thesis Award of the University of Freiburg (1999)
- Ph.D. Fellowship of the German Research Council (01/1996-12/1998)

REFERENCES

Dr. Elliot M. Meyerowitz; George W. Beadle Professor and Chair, Division of Biology, California Institute of Technology, Pasadena, CA 91125, USA.
Phone: +1 (626) 395-6889; Email: meyerow@caltech.edu

Dr. Eberhard Schäfer; Professor, Institute for Biology II, University of Freiburg, Schaenzlestr. 1, D-79104 Freiburg, Germany.
Phone: +49-761-203-2683; Email: Eberhard.Schaefer@biologie.uni-freiburg.de

Dr. José Luis Riechmann; Director, Genetics and Genomics Laboratory, California Institute of Technology, Pasadena, CA 91125, USA.
Phone: +1 (626) 395-5913; Email: jriechma@caltech.edu

Dr. Klaus Harter; Professor, ZMBP, Plant Physiology, University of Tübingen, Auf der Morgenstelle 1, D-72076 Tübingen, Germany.
Phone: +49-7071-29-72605; Email: klaus.harter@zmbp.uni-tuebingen.de

PUBLICATIONS

1. Schulenberg, B., **Wellmer, F.**, Lill, H., Junge, W., and Engelbrecht, S. (1997) Cross-linking of the chloroplast F₀F₁-ATPase subunit epsilon to gamma without effects on activity. Epsilon and gamma are parts of the rotor. *Eur. J. Biochem.* **249**, 134-141.
2. Kircher, S., **Wellmer, F.**, Nick, P., Rügner, A., Schäfer, E., and Harter, K. (1999) Nuclear import of the parsley bZIP transcription factor CPRF2 is regulated by phytochrome photoreceptors. *J. Cell. Biol.* **144**, 201-211.

* equal contribution

3. **Wellmer, F.**, Kircher, S., Rügner, A., Frohnmeyer, H., Schäfer, E., and Harter, K. (1999) Phosphorylation of the parsley bZIP transcription factor CPRF2 is regulated by light. *J. Biol. Chem.* **274**, 29476-29482.
4. **Wellmer, F.**, Schäfer, E., and Harter, K. (2001) The DNA binding properties of the parsley bZIP transcription factor CPRF4a are regulated by light. *J. Biol. Chem.* **276**, 6274-6279.
5. Rügner, A., Frohnmeyer, H., Naeke, C., **Wellmer, F.**, Kircher, S., Schäfer, E., and Harter, K. (2001) Isolation and characterization of four novel parsley proteins that interact with the transcriptional regulators CPRF1 and CPRF2. *Mol. Gen. Genomics* **265**, 964-976.
6. Yu, H., Ito, T., **Wellmer, F.**, and Meyerowitz, E.M. (2004) Repression of *AGAMOUS-LIKE 24*: a critical step in promoting flower development. *Nat. Genet.* **36**, 157-161.
7. **Wellmer, F.**, Riechmann, J.L., Alves-Ferreira, M., and Meyerowitz, E.M. (2004) Genome-wide analysis of spatial gene expression in *Arabidopsis* flowers. *Plant Cell* **16**, 1314-1326.
8. Wagner, D., **Wellmer, F.**, Dilks, K., William, D., Smith, M.R., Kumar, P.P., Riechmann, J.L., Greenland, A.J., and Meyerowitz, E.M. (2004) Floral induction in tissue culture: a system for the analysis of LEAFY-dependent gene regulation. *Plant J.* **39**, 273-282.

* equal contribution

9. Ito, T., **Wellmer, F.**, Yu, H., Das, P., Ito, N., Alves-Ferreira, M., Riechmann, J.L., and Meyerowitz, E.M. (2004) The homeotic protein *AGAMOUS* controls microsporogenesis by regulation of *SPOROCTELESS*. *Nature* **430**, 356-360.
10. Baker, C.C., Sieber, P., **Wellmer, F.**, and Meyerowitz, E.M. (2005) The *early extra petals1* mutant uncovers a role for microRNA *miR164c* in regulating petal number in *Arabidopsis*. *Curr. Biol.* **15**, 303-315.
11. **Wellmer, F.** and Riechmann, J.L. (2005) Gene network analysis in plant development by genomic technologies. *Int. J. Dev. Biol.* **49**, 745-759.
12. **Wellmer, F.**, Alves-Ferreira, M., Dubois, A., Riechmann, J.L., and Meyerowitz, E.M. (2005) Whole-genome analysis of gene expression during early *Arabidopsis* flower development. *Submitted*

MANUSCRIPTS IN PREPARATION

Alves-Ferreira, M., **Wellmer, F.**, and Meyerowitz, E.M. Global expression profiling applied to the analysis of *Arabidopsis* stamen development.