

Curriculum Vitae: Andreas Schaller

Current position: Professor at the Institute of Biology
Universität Hohenheim
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Academic education and professional experience:

1981 – 1987 Studies in Biology, Ruhr-Universität Bochum, Germany
1988 – 1991 PhD in Plant Biochemistry, RUB / ETH Zürich, Switzerland
1992 – 1995 Post-Doc at Washington State University, Pullman, USA
1995 – 2002 Junior Group Leader at the Institute of Plant Sciences, ETH Zürich
2001 Habilitation in 'Plant Biochemistry and Plant Physiology', ETH Zürich
since 2002 Full Professor for Plant Physiology and Biotechnology, University of Hohenheim

Relevant awards and fellowships, major administrative and board activities:

1984 – 1987 Scholar of the 'Studienstiftung des Deutschen Volkes'
1992 – 1994 Fellowship from the European Molecular Biology Organization (EMBO)
2006 – 2013 Scientific Advisory Board of the Leibniz Institute of Plant Biochemistry, Halle
2008 – 2023 Board of Trustees of the Leibniz Institute of Plant Biochemistry, Halle
2005 – 2017 DFG liaison officer at the University of Hohenheim
2017 – 2018 University of Hohenheim, Vice President Research (Prorektor Forschung)
2021 Gips-Schüle 'Freedom for Research' Award
2022 Corresponding Membership Award of the American Society of Plant Biologists
since 2015 Ombudsperson for research integrity
2020 - 2026 Hohenheim University Foundation, member of the executive board
since 2021 Member of the Hohenheim University Council
since 2024 DFG review board Plant Sciences

10 most important publications:

Royek, S., Bayer, M., Pfannstiel, J., Pleiss, J., Ingram, G., Stintzi, A., Schaller, A. (2022) Processing of a plant peptide hormone precursor facilitated by post-translational tyrosine sulfation. Proc. Natl. Acad. Sci. USA, 119: e2201195119

Stührwohldt, N., Scholl, S., Lang, L., Katzenberger, J., Schumacher, K., Schaller A. (2020) The biogenesis of CLEL peptides involves several processing events in consecutive compartments of the secretory pathway. eLife 9:e55580

Reichardt, S., Piepho, H.-P., Stintzi, A., Schaller, A. (2020) Peptide signaling for drought-induced tomato flower drop. *Science* 367: 1482-1485

Doll, N.M., Royek, S., Fujita, S., Okuda, S., Chamot, S., Stintzi, A., Widiez, T., Hothorn, M., Schaller, A., Geldner, N., Ingram, G. (2020) A two-way molecular dialogue between embryo and endosperm is required for seed development. *Science* 367: 431-435.

Schardon K, Hohl M, Graff L, Schulze W, Pfannstiel J, Stintzi A, Schaller A (2016): Precursor processing for plant peptide hormone maturation by subtilisin-like serine proteinases. *Science*, 354: 1594-1597

Gasper, R., Effenberger, I., Kolesinski, P., Terlecka, B., Hofmann, E., Schaller, A. (2016): Dirigent protein mode of action revealed by the crystal structure of AtDIR6. *Plant Physiol.* 172: 2165–2175

Effenberger I, Zhang B, Li L, Wang Q, Liu Y, Klaiber I, Pfannstiel J, Wang Q, Schaller A (2015): Dirigent proteins from cotton (*Gossypium* sp.) for the atropselective synthesis of gossypol. *Angew. Chem. Int. Ed.* 54: 14660–14663

Pickel B, Constantin MA, Pfannstiel J, Conrad J, Beifuss U, Schaller A (2010): An enantiocomplementary dirigent protein for the enantioselective, laccase-catalyzed oxidative coupling of phenols. *Angew. Chem. Int. Ed.* 49: 202-204.

Ottmann C, Rose R, Huttenlocher F, Cedzich A, Hauske P, Kaiser M, Huber R, Schaller A. (2009): Structural basis for calcium-independence and activation by dimerization of tomato subtilase 3. *Proc. Natl. Acad. Sci. USA* 106: 17223-17228.

Schaller A and Oecking C (1999). Modulation of plasma membrane H⁺-ATPase activity differentially activates wound and pathogen defense responses in tomato plants. *Plant Cell* 11, 263-272.