

Shahid Masood Siddique
Curriculum Vitae

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EDUCATION

- Habilitation Phytopathology, Department of Molecular Phytomedicine, University of Bonn, Germany, 2018
- Ph.D. Agriculture and Biotechnology, Department of Plant Protection, University of Natural Resources and Life Sciences, Vienna, Austria, 2009
- M.Sc. Botany, Institute of Pure and Applied Biology, Bahauddin Zakariya University, Multan, Pakistan, 2004

PROFESSIONAL EXPERIENCE

- 2015–Present Group Leader, Department of Molecular Phytomedicine, University of Bonn, Germany
- 2010-2015 Lecturer and Research Assistant (Wissenschaftlicher Mitarbeiter), Department of Molecular Phytomedicine, University of Bonn, Germany
- 2012-2013 Visiting Faculty, Department of Molecular Biology and Biotechnology, Bahauddin Zakariya University, Multan, Pakistan
- 2009-2010 Postdoc, University of Natural Resources and Life Sciences, Vienna, Austria

OTHER PROFESSIONAL EXPERIENCE

- 2017 Visiting Scientist, Department of Molecular Biotechnology, University of Ghent, Belgium

2013 Visiting Scientist, MaxPlank Institute of Plant Physiology, Potsdam, Germany

RESEARCH GRANTS

- 2016 How plants recognize nematodes: Signals and signaling. German Research Foundation (DFG), 358.350 € (**sole PI**).
- 2016 The role of NADPH Oxidase in the interaction between plant and nematodes. German Research Foundation (DFG), 321.450 € (**sole PI**).
- 2015 Analysis of early events during the interaction between host plants and invading nematodes. German Academic Exchange Service (DAAD). PhD grant for Md. Shamim Hasan, ~50,000 €.

SELECTED PUBLICATIONS

- 2018 Anwer MA, Anjam MS, Shah SJ, Naz AA, Grundler FMW, **Siddique S***. Genome-wide association study uncovers a novel QTL allele of AtS40-3 that controls susceptibility to cyst nematode infection in Arabidopsis. *Journal of Experimental Botany*, 69:1805-1814.
- 2017 Shah SJ, Anjam MS, Anwer MA, Habash SS, Lozano-Torres JL, Grundler FMW, **Siddique S***. Damage-associated responses of the host contribute to defence against cyst but not root-knot nematode infection. *Journal of Experimental Botany*, 16:5949-5960.
- 2017 Mendy B, Wang'ombe MW, Radakovic SZ, Holbein J, Ilyas M, Chopra D, Holton N, Zipfel C, Grundler FMW*, **Siddique S***. Arabidopsis leucine-rich repeat receptor-like kinase NILR1 is required for induction of innate immunity to parasitic nematodes. *PLOS Pathogens*, 13: e1006284.
- 2016 Holbein J, Grundler FMW, **Siddique S***. Plant basal defence to nematodes: an update. *Journal of Experimental Botany*, 67:2049-2061.
- 2015 **Siddique S**, Radakovic ZS, De La Torre CM, Chronis D, Novak O, Ramireddy E, Holbein J, Hütten M, Gutbrod P, Anjam MS, Rozanska E, Habash S, Elashry A, Sobczak M, Kakimoto T, Strnad M, Schmölling T, Mitchum MG, Grundler FMW*. A parasitic nematode releases cytokinin that controls cell division and orchestrates feeding site formation in host. *PNAS*, 112:12669-12674.
- 2014 **Siddique S**, Matera C, Radakovic ZS, Hasan MH, Gutbrod P, Rozanska E, Sobczak M, Torres MA, Grundler FMW*. Parasitic worms stimulate host NADPH oxidases to produce reactive oxygen species that limit plant cell death and promote infection. *Science Signaling*, 7:ra33.