

# Dr. Annette Pfordt

Adress:

E-Mail:

Born at:

Telefonnr.:

## BACKGROUND

November 2021 – November 2027

SCIENTIFIC ASSOCIATE (POST-DOC)  
Georg-August-University Göttingen  
Department of Phytopathology and Crop Protection

Project: Trichoderma ear rot on maize – Risk analysis and development of management strategies for a new maize pathogen (Tricho-Mais)

October 2019 – August 2020

SCIENTIFIC ASSOCIATE (TEACHING)  
Georg-August-University Göttingen  
Department of Agricultural Economics and Rural Development

Project: Agricultural Careers Network - Agri-CareerNet 2  
Conceptualization of a the module Crop Science for the master's degree program „MBA Agribusiness“

May 2017 - May 2020

PH.D. AGRICULTURE  
Georg-August-University Göttingen  
Department of Phytopathology and Crop Protection

Project: "Improving the resistance of maize to the Fusarium ear blight complex - relevant species spectrum, mycotoxin load and reaction of maize genotypes"

October 2015 - February 2017

M.SC AGRICULTURE  
Georg-August-University Göttingen  
Focus: Crop Sciences

Master's thesis: "Influence of soil temperature on the infestation process of *Verticillium longisporum* on summer rapeseed (*Brassica napus* L.)"

October 2010 - March 2014

B.SC. AGRICULTURE  
University Hohenheim  
Focus: Crop Sciences

Bachelor's thesis: Description of growth and development of Filderkraut (*Brassica oleracea* L. *convar. capitata*) from commercial seeds in comparison to the variety 'Hilmar'

## THIRD-PARTY FUNDING ACQUISITION

**TrichoCosm (2025):** Integrative biology of *Trichoderma* for balancing biosecurity and agricultural benefits

- Submitted to: Welcome Trust Fund
- Duration: 2 years
- Funding amount: € 178,295

**MaiStar (2025):** Epidemiology and Resistance of Maize to Fusarium Wilt and Stalk Rot (submitted)

- Submitted to: Fachagentur für nachwachsende Rohstoffe (FNR)
- Duration: 3 years
- Funding amount: € 301,631

**PathoGen (2025):** Diagnosis of Pathogenic and Non-Pathogenic Fungi in Soil and Plant Samples Using a New Genome-Based Tool (approved)

- Submitted to: Niedersachsen Bank, European Union
- Duration: 01.01.2025 - 31.01.2026
- Funding amount: € 117,267

**MultiStress (2024):** Concurrent Multiple Abiotic and Biotic Stress Interactions in Maize: Impacts and Mechanisms (submitted)

- Submitted to: DFG Research Unit
- Duration: 01.01.2026 - 31.12.2029
- Funding amount: € 5,819,848 (in total), € 731.000 (subgroup)

**DigiTox (2024):** Risk Assessment of New Pathogens in Maize Cultivation – Development of Innovative Breeding Strategies and Digital Technologies for Mycotoxin Detection (approved)

- Submitted to: Industrielle Gemeinschaftsforschung (AIF)
- Duration: 01.06.2025 - 31.05.2028
- Funding amount: € 514,434

**KlimaStar (2021):** Development of Climate-Adapted Maize Varieties with Improved Stalk Rot Resistance (not approved)

- Submitted to: Federal Ministry for Agriculture and Food (BLE)
- Duration: 01.01.2023 - 31.12.2027
- Funding amount: € 2,421,885

**TrichoMais (2020):** Trichoderma Ear Rot in Maize – Risk Analysis and Development of Management Strategies for a New Maize Pathogen (approved)

- Submitted to: Fachagentur für nachwachsende Rohstoffe (FNR)
- Duration: 15.11.2021 – 14.11.2025
- Funding amount: € 547,322

## PUBLIKATIONEN (PEER-REVIEWED)

- Pfordt A and von Tiedemann, A (2025)** Commentary: Is *Trichoderma* ear rot on maize really a new dangerous plant disease? Response to the opinion paper "Is *Trichoderma* ear rot on maize really a new dangerous plant disease?" by Isabel Trillas, Guillem Segarra & Manuel Avilés, *Frontiers Agronomy* 6:1386568, 2024, <https://doi.org/10.3389/fagro.2025.1544363>
- Pfordt A, Douanla-Meli C., Schäfer B. C., Schrader G., Tannen E., Chandarana M. , Von Tiedemann, A. (2024)** Phylogenetic analysis of plant-pathogenic and non-pathogenic *Trichoderma* isolates on maize from plants, soil and commercial bio products, *Applied and Environmental Microbiology*, BioRxiv PrePrint <https://doi.org/10.1101/2024.09.27.615377>
- Pfordt A, Paulus S (2024).** A review on detection and differentiation of maize diseases and pests by imaging sensors, *Precision Agriculture, Journal of Plant Disease and Protection*, 132 (1), [10.1007/s41348-024-01019-4](https://doi.org/10.1007/s41348-024-01019-4)
- Pfordt A, Steffens L, Raz T, Naumann M (2024).** Impact of *Trichoderma afroharzianum* infection on fresh matter content and grain quality in maize. *Frontiers in Plant Science*, 15, <https://doi.org/10.3389/fpls.2024.1436201>
- Pfordt A, Gaumann P, von Tiedemann A (2023).** Pathogenicity of *Trichoderma afroharzianum* in cereal crops, *MDPI Pathogens*, 12(7), 936; <https://doi.org/10.3390/pathogens12070936>
- Pfordt A, Schiwek S, Rathgeb A, Rodemann C, Bollmann N, Buchholz M, Karlovsky P, von Tiedemann A (2020).** Occurrence, pathogenicity, and mycotoxin production of *Fusarium temperatum* in relation to other *Fusarium* species on maize in Germany. *MDPI Pathogens*, 9, 864
- Pfordt A, Schiwek S, Karlovsky P, von Tiedemann A (2020).** *Trichoderma afroharzianum* ear rot – A new disease on maize in Europe. *Frontiers in Agronomy*, 2, 236
- Schiwek S, Beule L, Vinas M, Pfordt A, von Tiedemann A, Karlovsky P (2020).** High-resolution melting curve (HRM) assay for the identification of eight *Fusarium* species causing ear rot in maize. *MDPI Pathogens* 2020, 9, 270
- Pfordt A, Ramos Romero L, Schiwek S, Karlovsky P, von Tiedemann A (2020).** Impact of environmental conditions and agronomic practices on the prevalence of *Fusarium* species associated with ear- and stalk rot in maize. *MDPI Pathogens*, 9, 236
- Zheng X, Pfordt A, Khatri L, Bisola Eseola A, Wilch A, Koopmann B, von Tiedemann A (2019).** Contrasting patterns of colonization with *Verticillium longisporum* in winter and spring type oilseed rape (*Brassica napus* L.) in the field and greenhouse and the role of soil temperature. *Plant Disease*, 8,103

## AWARDS AND SCHOLARSHIPS

**DMK Award (2020):** Dissertation Prize from the German Maize Committee

- **Endowment:** €2,500

**Dorothea Schlözer Scholarship (2024):** Career Advancement for Female Scientists from the University of Göttingen

- **Endowment:** €5,000