

The **University of Bonn** is an international research university offering a broad range of subjects. With a 200-year history, some 31,500 students, more than 6,000 employees and an outstanding reputation in Germany and abroad, the University of Bonn is one of the leading universities in Germany and has been awarded the status of a University of Excellence.

The **Chemical Signalling** group at the Faculty of Agricultural, Nutritional and Engineering Sciences at the University of Bonn is seeking qualified and highly motivated candidates for

## Two PhD positions in Plant Biology (m/f/d)

The goal of the DFG-funded project will be “**Deciphering dynamic light-induced H<sub>2</sub>O<sub>2</sub> signalling**”.

Based on extensive prior work on dynamic imaging of physiological parameters with a focus on cellular redox homeostasis and detoxification of reactive oxygen species by the glutathione-ascorbate system, this project now addresses the decoding of retrograde H<sub>2</sub>O<sub>2</sub> signals generated in chloroplasts of *Arabidopsis thaliana*. You will use state-of-the-art techniques in live-cell imaging by confocal microscopy and plate-reader-based approaches in combination with advanced genetic, genomic and biochemical approaches. For further background on the project and techniques see: Meyer et al., 2007, *Plant J*, DOI: 10.1111/pce.12919; Ugalde et al., 2021, *Plant Physiol*, DOI: 10.1093/plphys/kiab095; Ugalde et al., 2021, *Plant Physiol*, DOI: 10.1093/plphys/kiab306; Ugalde et al., 2022, *Methods Mol Biol*, DOI: 10.1007/978-1-0716-2469-2\_5; Schlößer et al., 2024, *Plant J*, DOI: 10.1111/tpj.16687.

We offer a dynamic and exciting research environment with a state-of-the-art equipped lab, a friendly and experienced team, excellent national and international connections, and dedicated training in the relevant techniques and skills to the highest standard. Remuneration is paid according to TV-L 13 (65%) (Tariff agreement for the public servants of the federal states in Germany).

We are looking for highly motivated PhD candidates with interest in plant science and redox biology. The ideal candidate should hold a Master's degree (or equivalent) in Biology or another relevant subject such as Agricultural Sciences, Biochemistry or Chemistry. Practical experience in molecular biology, biochemistry, plant physiology, or coding (Python, C++) will be of benefit. Excellent English language skills are required; German language skills are of advantage but no prerequisite. For enquiries, contact **Prof. Dr. Andreas Meyer** ([andreas.meyer@uni-bonn.de](mailto:andreas.meyer@uni-bonn.de)) or **Dr. José Manuel Ugalde** ([jugaldev@uni-bonn.de](mailto:jugaldev@uni-bonn.de)).

**The University Bonn is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply as they are underrepresented in the field. The university has committed itself to being a family-friendly institution and supports their employees in balancing work and family life. The mission of the University is to employ a greater number of severely disabled persons. Applications from severely disabled persons with equivalent qualifications will be given preference.**

Please apply by submitting a **single PDF** document in English containing a motivation letter and detailed CV, a brief summary of previous research projects, and the names of two potential referees to Mrs. Christine Jessen or Mrs. Ellen Kreitz ([sekretariat-cs@uni-bonn.de](mailto:sekretariat-cs@uni-bonn.de)). Screening of applications will start of **February 1, 2025** and continue until the positions are filled appropriately.