

The Chair of Phytopathology at the Technical University of Munich, TUM School of Life Sciences, hires a

## **Postdoc in the field of Population genomics of plant pathogens**

We are interested in understanding the diversity and evolution of plant pathogens. To understand various factors involved, we study both wild plant pathosystems as well as agricultural systems. In the lab we work with various cereal pathogens and several pathogens on wild and domesticated *Solanum* species. We apply comparative genomics and population genomics approaches to understand the biology of the host and the pathogens and the factors that govern their evolution.

For this project, we are looking for a postdoctoral researcher to investigate the genetic diversity of a crop pathogen. The applicant must have a PhD and have an interest in ecological modeling and/or population genomics. Experienced with NGS data analysis is an advantage. Excellent English skills, both written and spoken, are essential.

The project will be carried out in the group of Dr. Remco Stam at the Chair of Phytopathology (Prof. Dr. Ralph Hüchelhoven). The chair hosts several research groups studying the biology of plant pathogen interaction and is well equipped to study defence responses on different levels. The project is in collaboration with a leading company in plant breeding and agrochemistry and benefits from access to their genetic resources as well as many active collaborations in the field of population genetics and genomics and access to state-of-the-art resources on the TUM Life Science Campus in Freising-Weihenstephan.

The Technical University of Munich wishes to increase the percentage of employed women. Women are therefore explicitly encouraged to apply. Handicapped persons with equivalent qualification will be given preference. The salary is according to German income level TV-L E13. The position is initially for one year, with the possibility for extension.

**Please send your comprehensive application including a letter of motivation (1 page), your CV, certificates, list of publications, and names of 2 potential referees as a single pdf file by email to: [remco.stam@tum.de](mailto:remco.stam@tum.de)** Informal inquiries can be made on the same address.

The position is to be filled from February 2021.  
Reviewing applications will start 21 December 2020,  
Interviews will start in January, until a suitable candidate has been found.

**Website of the lab: [www.remcostam.com](http://www.remcostam.com)**

### **Related publications**

*The current epidemic of the barley pathogen *Ramularia collo-cygni* derives from a recent population expansion and shows global admixture.* **R. Stam\***, H. Sghyer, A. Tellier, M. Heß and R. Hüchelhoven (2019) [Phytopathology 109:2161-2168](#)

A new reference genome shows the one-speed genome structure of the barley pathogen *Ramularia collo-cygni*. **R. Stam\***, M. Münsterkötter, S. Pophaly, L. Fokkens, H. Sghyer, U. Güldener, R. Hüchelhoven and Heß, M. (2018). [Genome Biology and Evolution 10 \(12\) 3243-3249](#)

L. Fokkens, S. Shahi, L.R. Connolly, **R. Stam**, S. M. Schmidt, K. M. Smith, M. Freitag and M. Rep The multi-speed genome of *Fusarium oxysporum* reveals association of histone modifications with sequence divergence and footprints of past horizontal chromosome transfer events; bioRxiv 465070