

Postdoctoral Scholar in Fungal Microbiome Characterization and Pathogen Identification in Sentinel Trees

Department of Plant Pathology, The Ohio State University, Columbus, OH, U.S.A.

Qualified candidates are sought for a postdoc position based in the lab of Pierluigi (Enrico) Bonello in the department of Plant Pathology at the Ohio State University. Available immediately for 12 months and potentially renewable, based on availability of funds and satisfactory performance. The research is centered on an international project funded by the [International Programs Office of the USDA Forest Service](#). The project, among the United States (Ohio, New Hampshire), Europe (Italy, Sweden), and China focuses on the use of fully reciprocal, *ex-patria* sentinel plantings for risk assessment associated with potentially novel, non-native fungal pathogens of international concern; see [this](#).

Duties – The scholar will engage in:

1. Maintenance of an existing sentinel garden in Columbus, OH
2. Screening trees for symptoms of foliar and stem diseases
3. Isolating fungi in pure culture
4. Conducting pathogenicity tests
5. Identifying fungi using morphology and/or diagnostic gene sequences and phylogenetic placement
6. Analysis of high throughput sequences data for the purpose of characterizing endophytic fungal communities
7. Publishing papers and contributing to the writing of grant proposals.

Requirements – At a minimum, candidates should have a PhD in plant pathology (forest pathology preferred) or equivalent degree with demonstrated expertise (publication record preferred) in molecular taxonomy and the use of multigene phylogenies/genealogies for fungal species identification, as well as experience in microbiome characterization using established techniques (high throughput sequencing, bioinformatics pipelines, Qiime II, multivariate analyses, etc.).

The position carries a competitive stipend with full benefits. Please email letter of interest, specifying “Sentinel postdoc” in the subject line, accompanied by CV as soon as possible to bonello.2@osu.edu. The CV must include academic record, publication record, and names of at least three professional references.

To apply directly, click [here](#) or use the term R66535 to search [here](#).

The Ohio State University is an equal opportunity employer.

All qualified applicants will receive consideration for employment without regard to age, ancestry, color, disability, ethnicity, gender identity or expression, genetic information, HIV/AIDS status, military status, national origin, race, religion, sex, gender, sexual orientation, pregnancy, protected veteran status, or any other bases under the law.