



Bioinformatics Position in Comparative Fungal Genomics

Department of Plant Pathology, University of California
Davis, CA, USA

A bioinformatics position in the field of Comparative Fungal Genomics is immediately available at the department of Plant Pathology, University of California Davis (UCD) and the lab of Dr. Ioannis Stergiopoulos. The position is primarily for a post-doctoral fellow but could be turned into a graduate student (PhD) position, if an appropriate candidate is found. The interdisciplinary research group focuses on the genetics, genomics and evolution of plant-microbe interactions, aiming at gaining a deeper level of understanding on the molecular mechanisms of fungal pathogenesis on plants (<http://plantpathology.ucdavis.edu/faculty/stergiopoulos/>).

The project will focus on the evolution of virulence and host-specificity in fungal plant pathogens and will involve the genome sequencing of several Dothideomycete species using next generation sequencing platforms (Illumina HiSeq2500, PacBio RS), bioinformatics analyses, and follow-up *in vivo* experiments, to investigate the biological significance of the data generated by the *in silico* analyses. Emphasis will be given on comparative secretome analyses and the characterization of virulence factors from selected Dothideomycete plant pathogens. The scientist filling this position is expected to work closely with other members of the group who will perform the experimental validation of the data generated by the bioinformatics analyses.

Required qualifications for this position are a PhD or Master's degree in bioinformatics, computational sciences, statistics or equivalent. Excellent knowledge in programming (Perl/Python, etc), use of Unix/Linux, and demonstrated previous experience with analyzing large genomic data sets generated by next generation sequencing platforms are mandatory. Previous working experience with plant pathogens is desirable but not required. A strong publication record and excellent oral and written communication skills are also highly desirable attributes. The position is for 2 years (1+1) but could be extended if additional funding is available. Salary is based on experience and qualifications according to UC Davis guidelines. UC Davis provides a highly vibrant intellectual atmosphere, a pleasant college environment and career development activities specifically designed for Post-doctoral scholars and graduate students as well. UC Davis ranks No. 1 in the world for agricultural teaching and research, according to the QS World University Rankings.

Please send in a single pdf file a full CV, a short description of your research experience relevant to this position and contact details of 3 references to Dr. Ioannis Stergiopoulos (istergiopoulos@ucdavis.edu).