CENTRO DE INVESTIGACIÓN Y DE ESTUDIOS AVANZADOS DEL I.P.N
Laboratorio Nacional de Genómica para la Biodiversidad
Unidad de Genómica Avanzada

Cinvestav

OPEN CALL

Postdoc positions available at LANGEBIO, Mexico: Crop genomics

You are invited to apply to work on a large scale project to sequence six iconic crop species, with the aim of building genomic references for these organisms that may help with selection and crop improvement in Mexico and Latin America, as well as establish markers to identify varieties for breeders. The project is funded through SAGARPA and integrates several research teams in Mexico. The project will generate genetic data on six crop species of commercial and/or social interest.

We are seeking several exceptional Postdoctoral scientists to work on a range of data analyses including genome assembly and refinement, coding a non-coding gene annotation, differential gene expression analyses and variant calling. You will be working with data generated from both genotyping and whole genome sequencing studies. You will be closely supervised by Dr. Alfredo Herrera Estrella with expertise in domestication and fungal genomics; and Dr. Selene Fernandez, with an expertise in genomics and bioinformatics of non-coding RNA, both from the National Laboratory of Genomics for Biodiversity (CINVESTAV-LANGEBIO). In addition, the project will be interacting with several coordinators of the different crops related to the project. This is a great opportunity for advanced trainees to get access to novel genomic data from Latin American crops and build an independent scientific career in bioinformatics and/or computational biology where strong quantitative and computational skills are required.

LANGEBIO is one of the leading institutions in genomic research not only in Mexico but also internationally (www.langebio.cinvestav.mx). Selected applicants will have access to the local infrastructure at LANGEBIO and the Genomics Core Facility (www.langebio.cinvestav.mx/labsergen).

Previous experience working with large genomic datasets, genome assembly and annotation and computational skills including one or more scripting or programming languages (e.g. R, Perl, Python, C, Java) and complete familiarity in working in a Linux/Unix environment is essential. Experience working with high performance computing systems and parallelized pipelines is desired.

If you are interested please send 1) a copy of your CV, 2) copy of your most relevant publications (up to three), 3) a one-page letter of intent describing your research interests and why you would like to join the project, and 4) two letters of recommendation to mariana.bernal@cinvestav.mx with the SUBJECT: "Crop Genomes Postdoc Application" and your name. Competitive salaries will be offered according to demonstrated experience and CV. Funds are available to support the positions for two years, ideally starting early 2019. The positions will remain open until filled.

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