



Pankaj Jaiswal, PhD. Assistant Professor

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Date: August 30, 2011

Sergei A. Filichkin, Ph.D.
Department of Botany and Plant Pathology
The Center for Genome Research and Biocomputing
Oregon State University
Corvallis, OR 97331-7303

Dear Sergei,

I am writing this letter as co-PI of the Gramene database project (www.gramene.org) to collaborate on your proposal "Mechanisms and cellular factors modulating gene expression in plants through nonsense-mediated mRNA decay" to be submitted to the NSF under your leadership. Gramene is an NSF-supported and curated open-source data resource for plant comparative genomics that includes datasets on reference plant genomes, genetic diversity, pathways and ontologies. Your proposal on discovery of novel mechanisms and pathways underlying Nonsense Mediated mRNA Decay is expected to provide an important dataset for use in understanding the function of genomes of agriculturally valuable crop.

Based on our discussion, our specific collaborative efforts will include display of the Arabidopsis NMD and splicing transcript features in the genome browsers. The datasets from your project will provide a high resolution transcriptome and spliceome mapping of Arabidopsis under various environmental stress conditions. We will work closely with you in the years 2 and 3 of your project towards this goal. The process would include

- Annotation of the metadata by your group as suggested by us using the standardized formats, submission of transcriptome data to EBI Array Express/ATLAS and NCBI-SRA. The annotated data will primarily be hosted on your project website. Gramene will fetch the URI of your data and display it on the genome browsers using the DAS interface.
- Annotation of the NMD pathway from plants for our pathway database

Altogether, our collaboration will provide valuable resources and data dissemination approaches to the broad scientific community and to the specific crop breeding programs. We are pleased to know that unless specified, you will be the primary contact person to work with us on data exchange. We should note that unless Gramene project is renewed, we can only guarantee this arrangement through the end of our current round of NSF funding on the Gramene database project, which is until 09/30/2011.

I wish you good luck with the project and look forward to work on this collaboration.

Sincerely,

A handwritten signature in black ink, appearing to read "Pankaj".

Pankaj Jaiswal