Next-Generation RNA Sequence Data Analysis

6-10 March 2017

Interested participants can apply online

visit

http://jntbgri.res.in/events/ngs2017

or scan

Last date of registration 30 January 2017

CONTACT

**Dr. K.K.Sabu,
Senior Scientist,
JNTBGRI
Email: sabu@jntbgri.res.in**

Organized by

**Jawaharlal Nehru Tropical Botanic Garden and Research Institute
Thiruvananthapuram, Kerala**

NATIONAL WORKSHOP ON
Next-Generation RNA Sequence Data Analysis

6 -10 March 2017

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In Brief

• Learn the essential Linux computing skills for NGS data analysis
• Understand NGS technology, sequencing requirements & data formats
• Use bioinformatics tools for handling sequencing data from plants
• Perform downstream analyses and find differentially expressed genes

Aim and Scope

The purpose of this workshop is to get a deeper understanding in Next-Generation Sequencing (NGS) with a special focus on miRNA and mRNA data analysis using open bioinformatics tools. The participants will be trained using real data sets generated from plants, finding potential problems/errors during the analysis process and finally perform downstream analysis such as differential gene expression.

All workshop attendees will be enabled to perform important first tasks of NGS data analysis themselves. The course layout has been adapted to the needs of beginners in the field of NGS bioinformatics and allows researchers and academicians with no or little background in computer science to get a first hands-on experience in this new and fast evolving research topic.

Topics

• NGS data file conversion, QC analysis and interpretation of results
• Experimental designing for NGS based RNA-seq studies in plants
• Transcriptome assembly
• Transcript quantification and differential expression
• Annotation of differentially expressed transcripts
• Annotation of miRNA sequences
• Construction of reference transcriptome

Main Speaker

Dr. Kshitish Acharya
Institute of Bioinformatics and Applied Biotechnology, Bangalore

Coordinator

Dr. K. K. Sabu
Jawaharlal Nehru Tropical Botanic Garden & Research Institute, Thiruvananthapuram

Venue

Jawaharlal Nehru Tropical Botanic Garden and Research Institute, Palode, Thiruvananthapuram, Kerala

Who can apply

Open to research students/postdocs, college/university teachers, scientists, and personnel from industry

Registration Fee

Rs. 4000 for research students/postdocs, Rs. 6000 for teachers /scientists, and Rs. 10000 for industry. Registration fee covers workshop materials, breakfast and lunch. Selected candidates will be intimated after the due date and they need to pay the required fees on or before 10 February 2017