



Hands on Workshop on Gene expression and function analysis for Crop Improvement

JANUARY 16-20, 2018, IIT GUWAHATI, INDIA



Objective of the course: To provide up-to-date information on methods and resources used to analyze function of genes at the genome level, genetic polymorphisms, phenotyping, plant-pathogen interaction and bioinformatic tools in the field of plant biology. The course is primarily designed for students interested in plant functional genomics but anyone interested in the functional gene analysis of other organisms may attend because approaches studying gene functions are essentially the same.

Host: DBT Program Support Centre, Indian Institute of Technology Guwahati

Faculty: GJN Rao, Lingaraj Sahoo, Suvendra K Ray, Sanjeev Kumar, Mohitosh Dey, Avishek Dey and Invited Scientists

Laboratory Topics:

1. DNA, RNA and protein isolation
2. Gene expression analysis by Quantitative PCR
3. NGS data analysis of Plant Transcriptome
4. siRNA detection by Northern hybridization
5. Protein detection by Western blotting
6. Marker assisted trait selection
7. Rolling circle amplification for detecting virus infection
8. HR response and cell death
9. Pathogenicity test
10. Analytical instrumentation

Funding: Local hospitality (boarding and lodging) will be provided to all the selected participants (Master, PhD, Post-Docs and Faculty). Travel is NOT funded. Please note that there is no registration fee.

Closing date for applications: January 5, 2018
Selected candidates will be intimated by January 8, 2018.

Apply:

Apply online in the weblink: <https://docs.google.com/forms/d/18Uxz-hXB3RGpbxqeyOBd7CPflxcCzsWJcPghdQyaFHs/edit>

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