***HANDS-ON TRAINING WORKSHOP***

***ON***

***“Isolation and functional characterization of microRNAs”***

**Announcement**

**A 5-day course with hands-on Training on Isolation and functional characterization of microRNAs**

***(Nov. 12-16, 2018)***

**Centre for Advanced Studies in Botany**

**Department of Botany**

**North Eastern Hill University**

**Shillong – 793022**

**Sponsored By:**

**Department of Biotechnology**

**Govt. of India**

**New Delhi**

**North Eastern  Hill University**

**Shillong**

MicroRNAs are small endogenously encoded RNA molecule that regulates gene expression post transcriptionally. They are recently known to be one of the major regulators of the cell. Many studies have implicated the roles of miRNAs in flowering, plant defense, organ polarity, drought response, abiotic stress tolerance, leaf senescence, nutrient homeostasis and many more. With the increasing population of the world, a quantitative and qualitative improvement of the crop plants is the need of the hour to ensure sustainable food production. The expression of the genes involved in essential plant metabolic process could be modulated by miRNA. The miRNA based strategies can be used for improving economically important plants.

The workshop intends to provide basic knowledge on miRNAs and equip the participants to work independently on miRNA biology.

The areas to be covered in the workshop are:

**Day1**Lecture topics

1. Introduction of miRNAs in plants

2. Bioinformatics tools involved in miRNAs studies

 (miRNA discovery, target prediction, working on

miRNAs in lesser known plant species, mi-seq)

3. Applications of miRNA

**Day 2-5** Laboratory training

Isolation of total RNAs, cDNA synthesis by Reverse Transcription PCR, quantification of miRNA by Real time PCR and data analysis. Bioinformatics tools for miRNA studies.

The workshop is designed for College teachers and young researchers who seek to extend their teaching and research skills in the field of miRNA biology and shall comprise of invited talks from eminent scientists and hands on training sessions in the areas listed above.

**Hands-on Training Workshop**

**on**

***“Isolation and functional characterization of microRNAs”***

***(Nov. 12-16, 2018)***

**REGISTRATION FORM**

Title: Dr. Mr. Ms

Full Name in BLOCK letters: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Designation and Affiliation : \_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Department/College/Institute: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Email ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mobile no. : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Phone (with STD code) : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Teaching Experience : UG: \_\_\_\_\_\_\_\_\_\_\_\_

: PG \_\_\_\_\_\_\_\_\_\_\_\_\_

Research Experience : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Area of Specialization : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Accommodation required : Yes / No

Refresher course/ Orientation course/ training programs attended (please provide details):

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A brief write up on how the participation in the workshop is going to benefit you in your teaching/ research career (Pl. attach as separate sheet): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature: Date: \_\_\_\_/\_\_\_\_/\_\_\_\_\_\_\_

***Recommendation note of the Head of the Dept./ Institute/College:***

**Signature & Seal**

**Of *Head of the Dept./ Institute/College****:*

**Registration fee: Rs. 1500.00 to be paid by demand draft in the name of Finance Officer, North Eastern Hill University, Shillong at the time of Registration.**

**The form, duly filled in by the participants, should be sent to:**

***Coordinator,***

***Hands on training workshop on***

***“Isolation and functional characterization of microRNAs”***

***Department of Botany,***

***North Eastern Hill University,***

***Shillong-793022***

**Candidates can also submit the registration forms duly forwarded by the Head of the Dept./ Institute/College by email on** nchrungoo@nehu.ac.in;hkayang@gmail.com**;** sumankhatrikumaria@hotmail.com

**Selected candidates shall be informed by email.**

**Significant dates:**

**Application deadline for full consideration: Oct. 27, 2018**

**Selection and notification of participants by: Oct. 31, 2018**

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