

**ADVANCED INSTITUTIONAL LEVEL BIOTECH HUB,  
S. KULA WOMEN'S COLLEGE, NAMBOL, MANIPUR.**

**Report on a 6-Day Workshop on Plant Molecular Taxonomy conducted by Advanced Institutional Level Biotech Hub, S. Kula Women's College, Nambol, Manipur on 15<sup>th</sup> - 20<sup>th</sup> July, 2019**

A 6-Days Hands-on Training/Workshop programme was held at S. Kula Women's College, Nambol, Manipur with effect from 15<sup>th</sup> - 20<sup>th</sup> July, 2019. The Advanced Institutional Level Biotech Hub, S. Kula Women's College, Nambol, Manipur organized such type of workshop/Hands on Training programme. All together 28 registered students & College teachers from different nearby institutions were participated the programme.

**Inaugural Session:**

The Hands-on Training/Workshop was inaugurated on 15<sup>th</sup> July, 2019 at the Seminar Hall of Department of Biotechnology, S. Kula Women's College, Nambol, Manipur, with lighting the lamp by guests on the dais. Ms. Sh. Surodhoni Devi, JRF, Advanced Institutional Biotech Hub, S. Kula Women's College, Nambol, Manipur welcomed the guest and participants. The Inaugural address was given by Dr. Debananda Singh Ningthoujam, Coordinator, DBT– State Biotech Hub, Department of Biochemistry, Manipur University, Canchipur, Imphal. Dr. W. Robindro Singh, HoD/Coordinator, Advanced Institutional Biotech Hub, S. Kula Women's College, Nambol, Manipur delivered the keynote on the occasion. The Chief Guest, Dr. Debananda Singh Ningthoujam, Coordinator, DBT– State Biotech Hub, Department of Biochemistry, Manipur University, Canchipur, Imphal and Guest of Honour W. Nimai Singh, Coordinator, Advanced Institutional Biotech Hub, K. P. College, Hiyangthang, Manipur, both were delivered a thought-provoking lectures on the importance of Plant Taxonomy at molecular level. At the end of the inaugural session, Dr. W. Robindro Singh, HoD/Coordinator, Advanced Institutional Biotech Hub presented Mementos to the dignitaries on the dais and this session was concluded by proposed vote of thanks by Dr. Romesh Sagolshemcha, Research Associate, Advanced Institutional Biotech Hub, S. Kula Women's College, Nambol, Manipur.

**Technical Session -I: (15<sup>th</sup> July, 2019)**

Bench work-I (Lectures on Taxonomy, Morphology, Biogeography and cytology)

Bench work-II (Basic laboratory Practices: laboratory safety, sterilization techniques, pipetting, plating and solution preparation)

**16.07.2019 (TS-II)**

Bench work-III (Lectures on Bar coding, Molecular analysis, Specimen collection methodologies)

Bench work-IV (Nucleic acid/DNA extraction from different plant samples)

**17.07.2019 (TS-III)**

Bench work-V (Gel-Preparation)

Bench work-VI (Sample loading to Electrophoresis)

Bench work-VII (DNA detection)

Bench work-VIII (CTAB Preparation)

**18.07.2019 (TS-IV)**

Bench work-IX (Preparation of PCR master mix)

Bench Work- X (Demo on PCR)

Bench work- XI (PCR Run)

**19.07.2019 (TS-V)**

Bench work-XII (Quantification techniques and quality control)

Bench work-XIII (Electrophoresis and Western blotting)

**20.07.2019 (TS-VI)**

Bench work-XIV (Bioinformatics tools)

**Programme Closed**