

SHILLONG

Shillong, the capital of Meghalaya is located at an altitude of 1496 meters above sea level. Tucked away in the hills of eastern sub-Himalayas, Meghalaya is one of the most beautiful states in the country. Nature has blessed her with abundant rainfall, sunshine, virgin forests, high plateaus, tumbling waterfall, crystal clear rivers and meandering stream-lets.

BIOINFORMATICS CENTRE (DIC)

The Bioinformatics Centre (DIC) at North-Eastern Hill University (NEHU) has been setup and funded by Department of Biotechnology (DBT), Ministry of Science & Technology under the Biotechnology Information System Network (BTIS) program. The Centre started functioning from November 1999 with a view to catering to the needs of the scientific community in the far-flung northeastern region of the country and to augmenting their research activities through information inputs. Rich in great variety of flora and fauna, the north-eastern part of the country has been identified as one of the bio-diversity 'hotspots'. The forest wealth includes numerous orchids, timber-yielding trees, medicinal and aromatic plants, animals and microbes and some unique plants and animals from the region. For the bio-resource development, its exploration, conservation and proper utilisation, an urgent need was felt for linkage with the Bioinformatics network. The Centre is part of the National Bioinformatics Net-

WEATHER

Shillong is cold in November with temperature ranging between 10°C and 20°C. Participants are advised to carry warm/woollen clothes.

TRAVEL DESTINATION

Shillong is connected to Guwahati by National Highway 40 and it takes 3 to 4 Hours to cover the distance of 103 km.

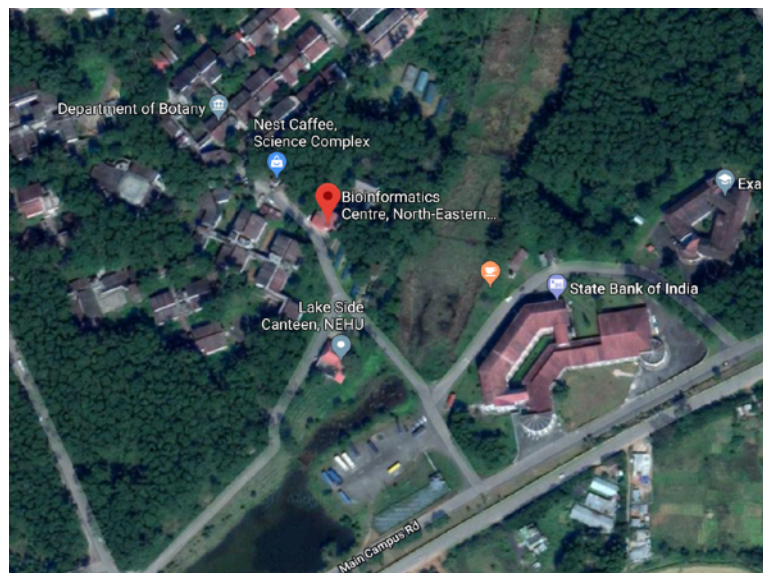
Airport

The Shillong airport, there are daily flights between the city with Jorhat and Kolkata only.

The other nearest airport is the Lokpriya Gopinath Bordoloi (Guwahati) airport. The flights that touch down in Guwahati originate from major cities in the country. From Guwahati Airport to Shillong, Taxis are available.

Train

There are several trains which connect Guwahati to major cities of the country. From there, rail passengers can commute to Shillong by Buses, Taxis and Sumos.



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology



DBT-sponsored
National level workshop
on

INTERACTIVE NGS DATA ANALYSIS

NOVEMBER 15-17, 2018



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DISTRIBUTED INFORMATION CENTRE
Nodal Centre,
North-East Bioinformatics Network
(sponsored by DBT, GOI)
NORTH-EASTERN HILL UNIVERSITY
SHILLONG 793022

TOPICS COVERED

(NOV 15-17, 2018)

Day 1 and 2 (November 15, 16 2018)

Introduction to the world of genome science
and background to genome analyses
LINUX and R BOOT CAMP
Introduction to RNA-Seq analysis
RNA seq alignment and visualisation
Interpreting visualisation
Differential Gene Expression analysis using
DESeq/EdgeR

Day 3 (November 15, 2018)

A primer on Metagenomics
Into the wild (TREKKING to the nearby hills
inside NEHU Campus)

The interactive sessions/lectures would
commence sharp at 9 AM everyday till 5
PM with appropriate lunch and coffee
breaks.

All the participants are advised to reach
Bioinformatics Centre, NEHU sharp at 8:30
AM everyday.

RESOURCE PERSONS

- DR. BINAY PANDA, GANIT LABS, BANGA-LORE
- DR. SABARINATHAN RADHAKRISHNAN, NCBS, BANGALORE
- DR. DEVENDRA K BISWAL, NEHU, SHIL-LONG
- ANURAG SINGH, NCBS
- NAVEEN LUKE DEMONTE (DBT-SRF), NEHU
- VIVEKANAND A (DBT-SRF), NEHU

TREKKING (nearby hill within NEHU CAMPUS)

Participants are advised to come prepared
with appropriate footwear for trekking into
the wild. More information on trekking can
be retrieved from the web.



METHODOLOGY

Lectures, Demos and Hands-on Sessions

Level of participants: PostGraduate students/
Research Scholars/Scientists /Young faculties in all
areas of Life Sciences/Computational Biology

PREREQUISITES: Knowledge in Computer basics
and Molecular Biology

REGISTRATION FEES: Rs. 2000/- for SPON-
SORED research scholars by their PIs/Research
Guides.

Registration fees for non-sponsored stu-
dents would be completely waived off.

Rs.5,000/- for Teachers/Scientists

**ACCOMMODATION AND FOOD WILL BE ARRANGED
FOR WORKSHOP DAYS in the University Guest
House by the ORGANISERS.**

Registration for the workshop can be done online in
the following link:
<https://goo.gl/gqYybb>

OR

Application form can be filled & soft copy be sent in
the email bicnehu@gmail.com

Hard copy can be sent in the following address

Coordinator
Bioinformatics Centre
North-Eastern Hill University
Shillong 793 022

The last date of receiving applications is
November 01, 2018

The selected candidates will be informed by email /
phone latest by November 02, 2018.

APPLICATION FORM

1. Name:
2. Date of Birth and age:
3. Sex:
4. Department/Institution/Affiliation:
5. Phone /Mobile:
6. E-mail:
7. Educational qualification (Highest):
8. Current Position:
9. Your motivation and research interest behind attending this Workshop (maximum 2 pages) **(The number of people we can accept is limited and your motivation statement helps us in making decisions regarding attendees. Also please provide a summary of your research interests, including an overview of your past and current work and your future plans. What are you doing? Why is it important? How are you doing it? List Keywords (maximum 5 words separated by semicolons) describing your research interests.)**
10. For PG/PHD/Postdoc students (Name of 1 Referee)
11. List two best publications if any (though not mandatory in selecting the applicants) for junior faculties only:
12. Accommodation required: Yes/No
13. Willing for Trekking:Yes/No
14. Whether the applicant has attended such training on NGS data analysis before (Please mention the title and period)
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Signature of candidate

Signature of the sponsoring authority/Principal Investigator/PhD Supervisor etc. (If not sponsored please mention it clearly)