



Indian Statistical Institute

North-East Winter School  
on

# Genetic Analyses of Complex Traits

December 21-22, 2016



Dibrugarh University

This Winter School is being organized in recognition of the need to expand research in North-East India on human disease to identify important risk factors and interactions among them. The training course aims to help the participants acquire skills to carry out experiments in Molecular Genetics, perform statistical analyses and draw inferences on genomic risks and associations.

**Classroom format** – lectures, hands-on and computer exercises.

## Topics

1. Basic Statistics
2. Basic Population Genetics: Hardy Weinberg Equilibrium, allele frequency estimation
3. Genetic Case-control Association Studies
4. Interpretation of Association Analyses: Concepts, Challenges and Cautions
5. Hands on Computer Exercise on Association Analyses using SPSS
6. Illustrations using Oral Cancer Data
7. Basic Epigenetics

## **Who Can Apply**

*Ph.D. students or junior faculty members working in a research institute/university in North-East India in the area of Human Genetics or Epidemiology*

*Number of Participants is limited to 20*

**Application forms can be downloaded from:**  
**[www.isical.ac.in/~hgu](http://www.isical.ac.in/~hgu)**  
**Filled up application forms should be sent via e-mail to the contact addresses given below.**  
**Deadline for Receipt of Applications**  
**December 5, 2016**

Instructors:

**ISI Kolkata:** Prof. Parha P Majumder; Prof. Saurabh Ghosh; Prof. Bidyut Roy;  
Dr. Raghunath Chatterjee, Dr. Abhik Ghosh  
**Dibrugarh University:** Prof. Sarthak Sengupta

**Contact addresses:**

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