



# Workshop on Statistical Genomics and Genetics

**CR Rao AIMSCS, University of Hyderabad**

**26<sup>th</sup> to 30<sup>th</sup> December, 2015**

## Advisory Committee

Prof. Appa Rao Podile (VC, UH)  
Prof. Appa Rao Allam (Director, C R Rao AIMSCS)  
Prof. Reddanna Pallu (Dean, SLS,UH)  
Prof. Anand Kondapi (SLS, UH)  
Dr. Niyaz Ahmed, UH  
Dr. Yugandhar. U, Director (MS), CR Rao AIMSCS

## Convenors

Dr. Sailu Yellaboina, CR Rao AIMSCS  
Dr. Sreenivasulu Kurukuti, UH  
Dr. Anil Kumar Pasapulati, UH

## Local Committee

Dr. Manimaran P, CR Rao AIMSCS  
Dr. Prakash Prabhu, UH  
Dr. Vaibhav Vindal, UH  
Dr. Alok Srivastava, CR Rao AIMSCS  
Dr. Arun PVPS, CR Rao AIMSCS

This is a 5-day workshop jointly organised by CR Rao Advanced Institute of Mathematics, Statistics and Computer Science (CR Rao AIMSCS) and Bioinformatics Infrastructure Facility, School of Life Sciences, University of Hyderabad (UH) as part of the on going celebrations of 95<sup>th</sup> birth anniversary of Prof. C R Rao. Over the past decade discoveries in biology and other disciplines are interdisciplinary nature and data-driven, that require great extent of expertise in statistics and data analytics. The objective of the workshop is to give training on statistical programming and data mining techniques to the students and faculty working in the area of statistics, bioinformatics, genomics and other disciplines. The participants may come with their own data for analysis. The workshop will have two popular lectures and series of hands on training courses in the state of the art data science laboratory. The courses will be taught by leading experts in statistics, bioinformatics, and genomics led by Prof. M.B Rao a great teacher and a well known applied statistician from University of Cincinnati, USA.

## Speakers and resource persons

- Prof. M. B. Rao, University of Cincinnati
- Prof. Krishna Reddy M, OU
- Dr. Shobha B, UH
- Dr. Niyaz Ahmed, UH
- Dr. Sailu Yellaboina, CR Rao AIMSCS
- Dr. Madhuchhanda Bhattacharjee, UH
- Dr. Sreenivasulu Kurukuti, UH
- Dr. Manimaran P, CR Rao AIMSCS
- Dr. Alok Srivatsava, CR Rao AIMSCS

## Hands on training includes

- R programming
- Statistical Inference
- Classification and Regression Trees
- Random Forests
- Bagging and Boosting
- Discriminant Analysis
- Principal Components
- Factor Analysis
- Clustering Techniques
- Neural Networks
- Support Vector Machines
- Loads of examples

## Popular lectures by Prof M. B Rao at 3.00 PM 30<sup>th</sup> December 2015

- Monitoring the health of a nation - American model and Indian Context.
- 1000 Genome Project - Population Genetics - A New Method

**Venue:** CR Rao AIMSCS  
Prof CR Rao Road, Gachibowli  
Hyderabad 500046.

**Correspondence:**  
Dr. Sailu Yellaboina  
Email: [yellaboinas@gmail.com](mailto:yellaboinas@gmail.com)

## General queries:

PVPS Arun  
Mobile: 07075111851

**Register online at:** <http://www.crraoaimscs.res.in/wsgg>

**Registration Deadline:** 20th, December 2015

**Registration fee (includes lunch):**

Students: Rs. 2000; Faculty: 3000; Industry: 10000

**Mode of payment:**

**Online transfer:**

Account Name: CR Rao AIMSCS Workshop, Ac Number: 4106000100022756,

Bank Name: Punjab National Bank, Branch: Hi-tech City, IFSC Code: PUNB0410600, MICR Code: 500024019 or **DD** in favor of "CR Rao Advanced Institute of Mathematics, Statistics and Computer Science" payable at Hyderabad"

**Includes  
Lunch**

**For accommodation in UH Guest House:** Anil Kumar Pasapulati, Email: [pasupulati.anilkumar@gmail.com](mailto:pasupulati.anilkumar@gmail.com)