ANNA UNIVERSITY, Chennai - 600 025

Training Program on
Next Generation Sequencing (NGS) - Bioinformatics and Data Analysis

PROGRAMME CONDUCTED BY AU-KBC Research Centre
M.I.T Campus of Anna University, Chromepet, Chennai – 600 044. India.
Tel : 91 - 44 – 2223 2711, 2223 4885 Fax : 91 – 44 – 2223 2711.

About the Programme

The advent of Next generation Sequencing (NGS) is virtually changing Biology and Medicine. Since the first living organism was sequenced, now we have the full genomes of multiple humans, chimp, chicken, dog, yeast, thousands of bacteria, hundreds of viruses and the list goes on. The challenge has now shifted from sequencing to extracting knowledge from it. NGS technologies cover diverse application areas such as de novo sequencing, genome resequencing, exome sequencing, ChIP sequencing, etc. Thanks to the rapid development in technology in recent years, thousands of genomes involving human DNA and RNA sequencing are underway in numerous countries. Some of the major applications of NGS include Diagnostics, Drug discovery, Personalized medicine, Biomarker discovery, Agriculture and Animal research.

Coverage: The programme covers key topics in the specified area and the method of instruction is in a tutorial format and organized around live demos with exercises. The programme methodology is designed to closely match the requirements of Students, Researchers, Faculty members and Scientists.

Audience: The programme is targeted towards Graduate and Post Graduate students in Science or Engineering or Technology / Ph.D Scholars /PDF’s / Faculty Members in Biotechnology / Bioinformatics / Life Science.

Faculty: Experts from Academic Institutions and Industries.

The courses will be conducted in two sessions per day at AU-KBC Research Centre, Chromepet.

Morning Session: 09.00 am – 01.00 pm  Afternoon Session: 02.00 pm – 06.00 pm

Course material will be provided in the form of CD along with free software collection.

Topics to be covered: Introduction to NGS, The Biology and Chemistry behind NGS, NGS Technology, NGS Data, DNA-Seq Data Analysis, Metagenomic analysis, Gene Prediction, Annotation, NGS Tools & Databases, NGS Statistics and NGS data analysis.

Fees: The course fee will be Rs.6500/- (Rupees Six thousand five hundred) for all the categories.

Please send a Cheque / DD drawn in favour of “The Director, AU-KBC Research Centre” payable at Chennai along with application form (download at www.au-kbc.org).

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