DBT Funded Training Program
Bioinformatics for Whole Genome Sequencing (NGSDAT 2016)

March22 -25, 2017

Schedule

Wednesday, 22 March 2017	
09:30 am – 10:00 am	Registration
10:00 am – 11:00 am	Inauguration and address
11:00 am – 11:20 am	Tea break & Group Photo
11:20 am – 11:45 am	Pre-evaluation *by P. Rajeev, Senior Scientist, ICAR-IISR, Kozhikode*
11:45 am – 01:00 pm	*Lecture 1*: Next Generation Sequencing (L) by A.I. Bhat, Principal Scientist, ICAR-IISR, Kozhikode
01:00 pm – 02:00 pm	Lunch break
02:00 pm – 03.00 pm	*Lecture 2*: Basic Linux Commands (L&P) *by*
03:00 pm – 03:15 pm	Tea break
03:30 pm – 05.00 pm	*Lecture 3*: Introduction to Raw Data Quality Control: Raw Reads QC, Trimming, Filtering of Low Quality Reads (L&P) *by Rosana O.B., NCBS, Bengaluru*
Thursday, 23 March 2017	
09:30 am – 11.15 am	*Lecture 4: De novo* assembly, clustering and CDS prediction from unigenes(L&P) by*ChandanBadapanda/ ToralManvarVaishnani, M/s Xcelris Labs Ltd., Ahamedabad*
11:15 am – 11:30 am	Tea break
11:30 am – 01:00 pm	Lecture 4 (cont'd)
01:00 pm – 02:00 pm	Lunch break
02:00 pm – 03.00 pm	*Lecture 5*:Prediction of CDS, annotation, gene ontology and pathway analysis(L&P) by*ChandanBadapanda/ ToralManvarVaishnani, M/s Xcelris Labs Ltd., Ahamedabad*
03:00 pm – 03:15 pm	Tea break
03:15 pm – 05:00 pm	*Lecture 5* (cont'd)
Friday, 24 March 2017	
09:30 am – 11:00 am	*Lecture 6*: Reference alignment and annotation (L&P) by *K. Arvind, Central University, Kasaragod*
11:00 am – 11:15 am	Tea break
11:15 am – 01:00 pm	Lecture 6 (cont'd)
01:00 pm – 02:00 pm	Lunch break
02:00 pm – 03:00 pm	*Lecture 7*: Estimating gene/transcript abundanceand differential gene and transcript expression (L&P) by*K. Arvind, Central University, Kasaragod*
03:00 pm – 03:15 pm	Tea break
03:15 pm – 05:00 pm	Lecture 7 (cont'd)
Saturday, 25 March 2017	
09:30 am – 11:00 am	*Lecture 8*: SSR & microRNA identification (L&P) *by Tony Grace, Central University, Kasaragod*
11:00 am – 11:15 am	Tea break
11:15 am – 12:30 pm	*Lecture 9*: Plant Transcriptome Sequencing: Issues and strategies (L) by

	D. Prasath, ICAR-IISR, Kozhikode
12:30 pm – 01.00 pm	Post evaluation & Feedback*by P. Rajeev, ICAR-IISR, Kozhikode*
01:00 pm – 02:00 pm	Lunch break
02:30 pm – 03:30 pm	Valedictory

Report: DBT Funded Training Program Bioinformatics for Whole Genome Sequencing

(NGSDAT 2016)

Bioinformatics for Whole Genome Sequencing Training Workshop.

The short-term training on "Bioinformatics for Whole Genome Sequencing (NGSDAT 2016) was jointly organized by IISER-Bhopal, Department of Genomics Science, Central University of Kerala (CUK), Kasaragod during March 22 -25, 2017. The training was funded by Department of Biotechnology and was the seventh in the NGS data analysis series, the Centre is organizing. 25 participants from many institutions across the country attended the training. The programme started with an inaugural lecture by Dr. Rajeev, ICAR-Kozhikode, Kerala

Key Words : Research methodology, Skill Development, Bioinformatics, next generation sequencing(NGS),