| Date | Time | Activity | Person |
|---|---|---|---|
| 29th Sep | 9.30 - 10.15 | Registration | Dr. N.P. Malpathak |
| | 10.15 to 11.45 | Inauguration and Inaugural lecture | Dr. Vidya Gupta |
| | 11.45 to 12.15 | TEA | |
| | 12.15 to 1.45 | | |
| | 2.45 to 4.15 | Regulation of gene expression at transcriptional level | Dr. Saroj Ghaskadbi |
| | 4.15-4.45 | TEA | |
| | 4.45 to 5.30 | Biosafety Guidelines and IPR issues | Dr. Nutan Malpathak |
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| 30th Sep | 9.30 to 11.00 | Regulation of gene expression at transcriptional level | Dr. Saroj Ghaskadbi |
| | 11.00 to 11.30 | TEA | |
| | 11.30 to 1.00 | Regulation of gene expression at translational and post-translational level | Dr. J.K. Pal |
| | 2.00 to 3.30 | Regulation of gene expression at chromatin level | Dr. Sanjeev Galande |
| | 3.30 to 4.00 | TEA | |
| | 4.00 to 5.30 | Regulation of gene expression at chromatin level | Dr. Sanjeev Galande |
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| 1st Oct | 9.30 to 11.00 | cDNA synthesis, cDNA libraries, Northern hybridization | Dr. A.B. Nadaf |
| | 11.00 to 11.30 | TEA | |
| | 11.30 to 12.00 | PCR | Dr. Sujata Bhargava |
| | 12.00 to 5.30 | a) RNA extraction and cDNA synthesis | Dr. A.B. Nadaf |
| | | b) Semi-quantitative RT-PCR | Dr. Sujata Bhargava |
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| 2nd Oct | 9.30 to 11.00 | cDNA AFLP | Dr. A.C. Kamble |
| | 11.00 to 11.30 | TEA | |
| | 11.30 to 5.30 | a) RNA extraction and cDNA synthesis | Dr. A.B. Nadaf |
| | | b) Semi-quantitative RT-PCR, primer design | Dr. Sujata Bhargava |
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| 3rd Oct | 9.30 to 11.00 | Suppressive subtractive hybridization and other technique used for studying differential gene expression | Dr. A.C. Kamble |

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| | 11.00 to 11.30 | TEA | |
| | 11.30 to 5.30 | a) Quantitative RT-PCR | Dr. Sujata Bhargava |
| | | b) cDNA AFLP | Dr. A.C. Kamble |
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| 5th Oct | 9.30 to 11.00 | SAGE | Dr. Narendra Kadoo |
| | 11.00 to 11.30 | TEA | |
| | 11.30 to 5.30 | a) Quantitative RT-PCR | Dr. Sujata Bhargava |
| | | b) cDNA AFLP | Dr. A.C. Kamble |
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| 6th Oct | 9.30 to 11.00 | Introduction to databases GEO, ENSEMBLE, UCSC | Dr. Sangeeta Sawant |
| | 11.00 to 11.30 | TEA | |
| | 11.30 to 1.00 | Overview of alignment algorithms | Dr. Sunitha Manjari |
| | 11.30 to 5.30 | Databases | Dr. V.T. Barvkar and Pandurang Kolekar |
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| 7th Oct | 9.30 to 11.00 | Regulation of gene expression by miRNAs | Dr. Anjan Banerjee |
| | 11.00 to 11.30 | TEA | |
| | 11.30 to 1.00 | RNAi as a new tool in functional genomics for crop improvement | Dr. M.V. Rajam |
| | 2.00 to 5.30 | miR base and plant small RNA tar | Dr. V. T. Barvkar |
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| 8th Oct | 9.30 to 11.00 | NGS - Introduction, platforms | Dr. Yogesh Shouche |
| | 11.00 to 11.30 | TEA | |
| | 11.30 to 5.30 | Linux commands, file formats - SRA, FastaQ | Dr. Dhiraj Dhotre |
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| 9th Oct | 9.30 to 11.00 | Microarrays introduction | Dr. Sujata Bhargava |
| | 11.00 to 11.30 | TEA | |
| | 11.30 to 1.00 | Microarray databases and data analysis | Dr. Payel Ghosh |
| | 2.00 to 5.30 | GEO2Rbase | Dr. Payel Ghosh |
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| 10th Oct | 9.30 to 11.15 | Microarray data analysis | Dr. Payel Ghosh |
| | 11.15 to 11.30 | TEA | |
| | 11.30 to 1.00 | Microarrays application | Dr. Mukesh Jain |
| | 2.00 to 3.30 | NGS | Dr. Mukesh Jain |
| | 3.30 to 5.30 | REVISION | |
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| 12th Oct | 9.30 to 11.00 | Illumina platform | Dr. Farhat Habib |
| | 11.00 to 11.30 | TEA | |

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| | 11.30 to 1.00 | Quality control of NGS data, Alignment, File formats | Dr. Farhat Habib |
| | 2.00 to 3.30 | Whole transcriptome de novo assembly | Dr. Farhat Habib |
| | 3.30 to 4.00 | TEA | |
| | 4.00 to 5.30 | DGE, visualization, statistics | Dr. Farhat Habib |
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| 13th Oct | 9.30 to 11.00 | Ion torrent platform | Dr. Dhiraj Dhotre |
| | 11.00 to 11.30 | TEA | |
| | 11.30 to 1.00 | Demo of Ion torrent platform | Dr. Dhiraj Dhotre |
| | 2.30 to 5.30 | and REVISION | |
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| 14th Oct | 9.30 to 11.00 | Introduction to transcriptome analysis | Dr. Dhiraj Dhotre |
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| | 11.30 to 5.30 | Pipeline for reference genome guided assembly | Dr. Pandurang Kolekar |
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| 15th Oct | 9.30 to 11.00 | RNAseq - reference genome guided assembly | Dr. Ruma Banerjee |
| | 11.00 to 11.30 | TEA | |
| | 11.30 to 1.00 | DGE using R packages | Dr. Ruma Banerjee |
| | 2.00 to 6.00 | Anvaya pipeline and | Dr. Ruma Banerjee |
| | | REVISION | |
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| 16th Oct | 9.30 to 11.00 | Pipeline for denovo assembly of transcriptome | Dr. Abhijeet Kulkarni |
| | 11.00 to 11.30 | TEA | |
| | 11.30 to 1.30 | Pipeline for denovo assembly of transcriptome | Dr. Abhijeet Kulkarni |
| | 2.30 to 4.30 | Pipeline for denovo assembly of transcriptome | Dr. Abhijeet Kulkarni |
| | 4.30 to 6.30 | Pathway analysis | Avinash Pandreka |
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| 17th Oct | 9.30 to 11.00 | Biochemical Pathway analysis | Dr. Thulasiram |
| | 11.00 to 11.30 | TEA | |
| | 11.30 to 1.00 | Rice functional genomics | Dr. J.P. Khurana |
| | 2.00 to 3.30 | Rice functional genomics | Dr. J.P. Khurana |
| | 4.00 to 6.00 | Transcription analysis-application | Dr. Dhiraj Dhotre |
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| 19th Oct | 9.30 to 11.00 | Proteomics | Dr. V.T. Barvkar |
| | 11.00 to 11.30 | TEA | |
| | 11.30 to 4.00 | MS platforms for proteomics and metabolomics | AGILENT |
| | 4.00 to 4.30 | TEA | |

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| | 4.30 to 5.30 | FEEDBACK | |
| 20th Oct | 9.30 to 11.00 | Concluding lecture | Dr. Rajendra Joshi |
| | 11.00 to 11.30 | TEA | |
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