

Summer Training Program: 'Biochemistry, Biotechnology & Bioinformatics'
8 May – 6 June 2012

Program Schedule

Date	Topic	Faculty
8.5.2012 (Tue) 10:00-1:00	Inauguration Pre-evaluation	P. Rajeev
2.00-4.30	Information retrieval in digital libraries; an agricultural perspective (L&P)	Sushama Devi
9.5.2012 (Wed) 9:30-11:30	Laboratory biosafety procedures (L)	A. Ishwara Bhat
11:45-4:30	Instruments used for chemical analysis of soil, water, manure and plant samples	S. Hamza/ V. Srinivasan
10.5.2012 (Thu) 9.30-4.30	Bioactive phytochemicals in spices (L&P)	N.K. Leela/ K.R. Lijini
11.5.2012 (Fri) 9.30-4.30	Oxidative damage in living systems and plant phytochemicals as antioxidants and nutraceuticals (L&P)	A. Shamina/ Reenu Joseph/ K. Shimna
12, 13.5.2012 (II Sat, Sun)		
14.5.2012 (Mon) 9.30-11.30	Metabolic pathways of major secondary metabolites in spices (L)	B. Chempakam
11.45-1.30	Biodiversity of spices in India (L)	K.V. Saji
2.00-4.30	Basics of statistics and statistical software for researchers (L)	K. Jayarajan
15.5.2012 (Tue) 9.30-11.30	Nanotechnology: Principles & applications	Sandhya Rani (NIT-C)
11.45-4.30	Spices: Chemistry of flavor and fragrance (L&P)	T. John Zachariah/ D. Sruthi
16.5.2012 (Wed) 9.30-11.30	IPR and Patenting (L)	B. Sasikumar
11.45-4.30	Extraction of enzymes and proteins from plants and isozyme analysis (L&P)	K.S. Krishnamurthy/ V.V. Vandana
17.5.2012 (Thu) 9.30-4.30	Plant tissue culture and micropropagation (L&P)	K. Nirmal Babu
18.5.2012 (Fri) 9.30-1.00	Fluorescence-activated cell sorting by Flow Cytometry: 'FLOWer' Program (L)	BD Biosciences
1.30-3.00	DNA isolation (L&P)	T.E. Sheeja
3.15-4.30	Molecular characterization of transgenes	P. Umadevi
19.5.2012 (Sat) 9.30-4.30	Molecular approaches for studying the genetic diversity of microbes (L&P)	R. Suseela Bhai/ K.B. Vinitha/ T.P. Prameela
20.5.2012 (Sun)		
21.5.2012 (Mon) 9.30-11.30	Principles of PCR (L&P)	B. Sasikumar & T.E. Sheeja

11.30-3.00	Molecular markers and analysis of molecular marker data	M.K. Rajesh (CPCRI)
3.15-4.30	Principles of PCR (L&P) contd...	B. Sasikumar & T.E. Sheeja
22.5.2012 (Tue) 9.30-4.30	Cloning of PCR products (L&P)	A.I. Bhat
23.5.2012 (Wed) 9.30-1.30	Proteomics	R. Vishwanathan (SBI)
2.00-4.30	GIS-A tool for biodiversity study (L&P)	Utpala Parthasarathy
24.5.2012 (Thu) 9.30-4.30	Isolation of total RNA from plants & qPCR (L&P)	D. Prasath
25.5.2012 (Fri) 9.30-4.30	<i>Agrobacterium</i> mediated transformation of plants (L&P)	K. Nirmal Babu
26.5.2012 (Sat) 9.30-1.30	Sequence alignments and analysis (L&P)	O. Rosana Babu
2.00-4.30	Molecular phylogeny (L&P)	O. Rosana Babu
27.5.2012 (Sun)		
28.5.2012 (Mon) 9.30-11.30	Transgenics (L)	T.E. Sheeja
11.45-1.00	Transcriptomics (L)	K. Johnson George
2.00-4.30	Molecular modeling (L&P)	Arun John
29.5.2012 (Tue) 9.30-1.30	Next generation sequencing and analysis (L)	S.J. Eapen
2.00-4.30	Sequence and structural databases (L&P)	A. Chandrasekar
30.5.2012 (Wed) 9.30-4.30	Molecular docking and computer aided drug designing (L&P)	O. Rosana Babu
31.5.2012 (Thu) 9.30-4.30	Field trip to IISR Experimental Farm, Peruvannamuzhi	Coordinators
1.6.2012 (Fri) 9.30-4.30	Primer design and validation (L&P)	A. Chandrasekar
2.6.2012 (Sat) 9.30-1.30	Development of molecular maps in plants (L&P)	K. Nirmal Babu
2.00-3.00	Molecular characterization of entomopathogenic nematodes (L)	Rashid Pervez
3.15-4.30	Development of recombinant baculoviruses and its application	Senthil Kumar
3.6.2012 (Sun)		
4.6.2012 (Mon) 9.30-4.30	Project presentation	Coordinators
5.6.2012 (Tue) 9.30-4.30	Post evaluation	P. Rajeev
6.6.2012 (Wed)	Valedictory function	