## Circular

The summer training on Techniques in Biochemistry and Biotechnology for the year 2005 is proposed to be conducted during 5th May to 4th June, the tentative programme is enclosed herewith. The concerned Scientists and others may kindly verify their topics and timings. The lecture materials (both hard and soft copies) may kindly be handed over to Dr. Sheeja T.E. positively by 15th April. It may please be noted that the lecture schedule given may be adhered to for the smooth conductance of the programme

This is issued with the approval of Director

**(B. Chempakam)**
Course Co-ordinator

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12/4
(V. Srinivasan)
LAN committee

| | Subject | Faculty | Date |
|---|---|---|---|
| 1. | Inauguration and address by Director | 5th May | 10:00-11:00 AM |
| 2. | Pre evaluation | P. Rajeev | 5th May; 11:30-12:30 |
| 3. | Extraction of enzymes and proteins from plants and isozyme analysis (L) | K.S. Krishnamoorthy | 5th May; 2:00-4:00 |
| 4. | Laboratory safety procedures | B. Chempakam | 6th May; 9:30-11:30 |
| 5. | Visit to laboratories | Minoo D | 6th May; 11:30-4:30 |
| 6. | Biochemistry of Spices (L&P) | T. John Z. | 7th May; 9:30-4:30 |
| 7. | Analytical techniques in Biochemistry (GLC, GCMS, HPLC) (L&P) | N.K. Leela & T.J. Zachariah | 9th May; 9:30-4:30 |
| 8. | Extraction of enzymes and proteins from plants and isozyme analysis (P) | K.S. Krishnamoorthy and B. Chempakam (L&P) | 10th May; 9:30-4:30 |
| 9. | Documentation and information retrieval (L&P) | P.A. Sheriff | 11th; May 9:30-2:30 |
| 10. | Anti microbial compounds in spices (L) | N.K. Leela, | 11th May; 2:30-4:30 |
| 11. | Application of isotopes and related techniques in Molecular Biology | K. Vasu | 12th May; 9:30- 11:30 |
| 12. | *In vitro* bioassay of antimicrobial compounds against pests and pathogens (P) | N.K. Leela Santhosh J.E, R. Susheela Bhai | 12th May: 11:30-4:30 |
| 13. | Plant tissue culture and micropropagation (L) | K. Nirmal Babu | 13th May; 9:30-11:30 |
| 14. | Plant tissue culture and micropropagation (P) | K. Nirmal Babu and B. Sasikumar | 13th May; 11:30-4:30 |
| 15. | Cryopreservation (L&P) | K. Nirmal Babu | 16th May; 9:30-4:30 |
| 16. | Cytological techniques & photomicrography (P) | R. R. Nair | 17th May; 9:30-11:30 |
| 17. | Sequence, structure, function (L&P) | Santhosh J. E & S. Balaji | 17th May; 11:30-4:30 |
| 18. | Internet Basics, search engines and search strategies (L&P) | Santhosh J. E | 18th May; 9:30-11:30 |
| 19. | Internet resources in Bioinformatics (P) | Santhosh J. E | 18th May; 11:30- 4:30 |
| 20. | PCR based Techniques (L) | Johnson K.G | 19th May; 9:30-11:30 |
| 21. | GIS (L&P) | Utpala P. | 19th May; 11:30-4:30 |
| 22. | 1. Isolation of DNA and RAPD analysis (L)<br>2. RAPD analysis (P) | B. Sasikumar | 20th May; 9:30-4:30 |
| 23. | 1. Isolation of m RNA from plants and gel analysis (P)<br>2. DDRT- PCR (P) | Johnson K. G | 21st May; 9:30-4:30 |
| 24. | DNA markers in plant improvement AFLP/SSR (L&P) | K. Nirmal Babu | 24th May; 9:30-4:30 |
| 25. | Molecular mapping (L&P) | K. Nirmal Babu | 25th May; 9:30-4:30 |
| 26. | Molecular approaches for pathogen detection (P)- Fungi | M. Anandaraj | 26th May; 9:30-4:30 |
| 27. | Molecular approaches for pathogen detection (P)- Viruses | A. Ishwara Bhat | 27th May; 9:30-4:30 |
| 28. | DNA Microarray Technology (L) | A. Iswara Bhat | 28th May; 9:30-11:30 |
| 29. | Molecular approaches for pathogen detection (P)- Bacteria | A. Kumar | 28th May; 11:30-4:30 |
| 30. | Rep-PCR and ARDRA: Tool for studying genetic diversity of bacteria (L&P) | A. Kumar | 30th May; 9:30-4:30 |
| 31. | Transgenics | Sheeja T.E. | 31st May: 9:30-11:30 |
| 32. | Photographic techniques (L&P) | Sudhakaran A. and Jayarajan K. | 31st May; 11:30;4:30 |
| 33. | Techniques in genetic transformation- plants<br>1. Using Biolistics<br>2. Using *Agrobacterjum* (P) | <br>K Nirmal Babu<br>B. Sasikumar. | <br>1st June; 9:30-11:30<br>1st June; 11:30-4:30 |
| 34. | Plasmid Isolation (E. coli) (P) | A. Kumar | 2nd June; 9:30-4:30 |
| 35. | IPR and patenting (L) | B. Sasikumar | 4th June; 9:30-11:30 |
| 36. | Post evaluation | P. Rajeev | 4th June; 12:00-1:00 |
| | ***Tea break at 11:15-11:30 AM and 3:30- 3:45 PM; Lunch break 1-1:30 PM on all days*** | | |