

## ANNOUNCING SUMMER TRAINING

Disha Life Sciences Pvt. Ltd. is glad to announce the summer training for the graduate and post graduate students of life sciences. We offer hand on practical training especially designed to enhance the technical skills of the person for industrial and research need. Trainees will have privilege to operate sophisticated equipment which are highly used in the industries as well as in the research.

| <b>MOLECULAR BIOLOGY</b> |                              |  |          |       |
|--------------------------|------------------------------|--|----------|-------|
| Module                   | Course name                  | Content  | Duration | Fees  |
| 1                        | Basics of Molecular Biology  | <ul style="list-style-type: none"> <li>• Reagent preparation</li> <li>• Genomic DNA isolation from plant.</li> <li>• Plasmid DNA isolation</li> <li>• Agarose gel electrophoresis</li> </ul>                   | 4 days   | 2,000 |
| 2                        | Advance Molecular Biology I  | <ul style="list-style-type: none"> <li>• plasmid DNA isolation</li> <li>• DNA purity determination</li> <li>• Competent cell preparations</li> <li>• Transformation</li> <li>• Blue white screening</li> </ul> | 5-6 days | 3,500 |
| 3                        | Advance Molecular Biology II | <ul style="list-style-type: none"> <li>• Basics of PCR</li> </ul>  | 2 days   | 2000  |
|                          |                              | <ul style="list-style-type: none"> <li>• Southern hybridization</li> <li>• SDS- PAGE</li> <li>• Native – PAGE</li> </ul>   | 3-4 days | 3,500 |
| <b>MICROBIOLOGY</b>      |                              |  |          |       |
| 1                        | Basics of Microbiology       | <ul style="list-style-type: none"> <li>• Good laboratory practices</li> <li>• Media preparation</li> <li>• Plate Pouring</li> </ul>  | 3 days   | 1,200 |

|   |                         |  |          |       |
|---|-------------------------|--|----------|-------|
|   |                         | <ul style="list-style-type: none"> <li>• Streaking</li> <li>• Spreading</li> <li>• Gram's staining</li> <li>• Colony characteristics</li> </ul>  |          |       |
| 2 | Advance Microbiology I  | <ul style="list-style-type: none"> <li>• Good laboratory practices</li> <li>• Isolation of microbes</li> <li>• Identification of Microbes by Biochemical Characterization by IMVIC Test</li> <li>• Long term preservation of microbes</li> </ul>   | 3 days   | 2,200 |
| 3 | Advance Microbiology II | <ul style="list-style-type: none"> <li>• Good laboratory practices</li> <li>• Isolation of microbes from different sources.</li> <li>• Identification of Microbes by Biochemical Characterization. <ul style="list-style-type: none"> <li>a) IMViC series Test.</li> <li>b) Starch Hydrolysis Test.</li> <li>c) Casein Hydrolysis Test.</li> </ul> </li> <li>• Antibiotic sensitivity test.</li> <li>• Minimum Inhibitory concentration (MIC) Test.</li> </ul> | 4-5 days | 4,000 |

### ENZYMOLGY

|   |                      |  |          |       |
|---|----------------------|--|----------|-------|
| 1 | Basics of Enzymology | <ul style="list-style-type: none"> <li>• Isolation of enzyme producing microorganism from suitable substrate.</li> <li>• Pure culture Preparation.</li> <li>• Screening of purified cultures for Enzyme activity.</li> </ul>   | 4 days   | 2,600 |
| 2 | Advance Enzymology   | <ul style="list-style-type: none"> <li>• Isolation of enzyme producing microorganism from suitable substrate.</li> <li>• Pure culture Preparation.</li> <li>• Screening of purified cultures for Enzyme activity.</li> <li>• Fermentation.</li> <li>• Extraction of Crude Enzyme.</li> <li>• Precipitation of Enzyme.</li> </ul> | 4-5 days | 3,000 |
|   |                      | <ul style="list-style-type: none"> <li>• Total protein estimation <ul style="list-style-type: none"> <li>I. Bradford's Method.</li> <li>II. Lowry's Method.</li> </ul> </li> <li>• SDS PAGE.</li> <li>• Native PAGE</li> </ul>   | 3-4 days | 2,500 |

### IMMUNOLOGY

|   |                      |   |        |       |
|---|----------------------|---|--------|-------|
| 1 | Basics of Immunology | <ul style="list-style-type: none"> <li>• WIDAL test</li> <li>• Blood grouping</li> <li>• Double diffusion test</li> <li>• Radial immunodiffusion</li> </ul> | 2 days | 2,600 |
|---|----------------------|---|--------|-------|



|                              |                             |   |          |       |
|------------------------------|-----------------------------|---|----------|-------|
| 2                            | Advance Immunology          | <ul style="list-style-type: none"> <li>• Sandwich ELISA</li> <li>• Rocket immunoelectrophoresis</li> </ul>  | 4 days   | 4,000 |
| <b>ANIMAL CELL CULTURE</b>   |                             |   |          |       |
| 1                            | Cell Culture I              | <ul style="list-style-type: none"> <li>• Viable cell count by haemocytometer and TALI cytometer</li> <li>• MTT assay</li> </ul>   | 3 days   | 3000  |
| 2                            | Cell culture II             | <ul style="list-style-type: none"> <li>• Revival of cell line</li> <li>• Cell line maintenance</li> <li>• Trypsinization</li> <li>• Subculture</li> <li>• Cell count</li> <li>• Cell line preservation</li> </ul> | 4-5 days | 6000  |
| <b>ANALYTICAL TECHNIQUES</b> |                             |   |          |       |
| 1                            | HPLC                        | <ul style="list-style-type: none"> <li>• System operation</li> <li>• Mobile phase preparation</li> <li>• Sample preparation</li> <li>• Sample injection</li> <li>• Data analysis</li> </ul>                       | 2 days   | 2500  |
| 2                            | Gas chromatography          | <ul style="list-style-type: none"> <li>• System operation</li> <li>• Sample preparation</li> <li>• Sample injection</li> <li>• Data analysis</li> </ul>   | 2 days   | 3000  |
| 3                            | Ion exchange chromatography | <ul style="list-style-type: none"> <li>• Reagent preparation</li> <li>• Column packing</li> <li>• Purification of enzyme</li> <li>• Estimation of enzyme activity and calculation</li> </ul>                      | 3 days   | 3000  |

\*Service tax extra will be applicable on above charges.

\*Last date for registration – **20<sup>th</sup> April, 2017**

## CONTACT US

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