

**7. Animal Tissue culture      Rs. 4500/-**

- i) Media preparation for cell line
- ii) Subculture & maintenance for cell line
- iii) Cytotoxicity analysis
- iv) Anticancer activity - MTT assay
- v) DNA Fragmentation
- vi) Wound healing activity
- vii) Cell adhesion studies

**8. Herbal technology      Rs. 4500/-**

- i) Extraction of herbal plants by cold & Soxhlet method
- ii) Phytochemical analysis
- iii) Antimicrobial activity
- iv) Antioxidant activity
- v) Antidiabetic activity
- vi) Detection of bioactive compound using TLC & column

**9. Chromatography      Rs. 3750/-**

- i) TLC
- ii) Column Chromatography
- iii) Ion exchange chromatography
  - Anion exchange chromatography
  - Cation exchange chromatography
- iv) Gel filtration chromatography
- v) Affinity chromatography

**Other Activities**

- Mini Project
- B.Tech / M.Tech Project
- MSc/ Mphil/ PhD Project
- Workshop / Internship Programme
- Contract Research
- On-site training at client sites



**Royal Bio Research Centre**

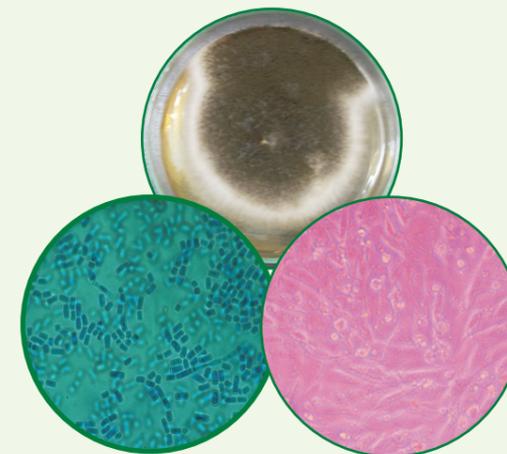
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Velachery, Chennai - 600 042.  
Mobile : +919940352236  
Mail ID : royalbio2012@gmail.com  
Website : www.royalbiorc.com

Applicants have to send the biodata  
along with the registration fee Rs. 500/-

The Registration fee not refundable



**Royal Bio  
Research Centre**



**WORKSHOP  
PAMPHLET**

### Profile

Royal Bio Research Centre was formed in the year 2012 with a team of young scientists and industrial leaders, who have acquired knowledge, expertise and world-class exposure. The centre carries out Training Programmes, Workshops, Bio-services and Projects for Under Graduates, Post Graduates and Research Scholars. We have developed a unique way of training which provides a strong knowledge about the techniques and its applications. More importantly the techniques are carried out with hands-on experience, so that the student certified by the institution could perform, troubleshoot and apply the techniques with great ease in their field. The workshops and training programs are taught by professionals who make it interactive and hands-on practice. The centre is equipped with multiple labs and facilities that match research and industrial standards. Exposure to these facilities and techniques will prepare students to meet the current industrial needs. The centre offers projects and training programmes in the following disciplines.....

#### **1. Microbiology** **Rs. 4000/-**

- I) Media preparation
- II) Isolation of microbes from various sources (Bacterial & Fungal)
- III) Identification of microbes – morphology & biochemicals
- IV) Growth curve

- V) Antimicrobial activity
- VI) Isolation & estimation of microbial protein
- VII) Protein profiling
- VIII) Isolation of DNA
- IX) Genetic diversity using RAPD.

#### **2. Molecular biology Module I** **Rs. 4000/-**

- i) Isolation of genomic DNA from different sources
- ii) Agarose gel electrophoresis
- iii) Protein profiling (SDS PAGE)
- iv) Plasmid DNA profiling
- v) RNA Isolation from yeast
- vi) PCR
- vii) RAPD
- viii) RFLP

#### **3. Molecular biology Module II** **Rs. 4000/-**

- i) Southern blotting
- ii) Northern blotting
- iii) Western blotting
- iv) Silver staining
- v) Native PAGE
- vi) Gene expression

#### **4. Nanotechnology** **Rs. 4500/-**

- i) Synthesis of nano particles
  - a. Bio synthesis (Microbes & Plants)
  - b. Chemical based synthesis

- ii) Spectrophotometer analysis
- iii) Drug delivery
- iv) Antimicrobial studies
- v) Anticancer activity
- vi) DNA fragmentation

#### **5. Immunotechnology** **Rs. 4000/-**

- i) ODD Immunoelectrophoresis
- ii) SRID
- iii) Rocket Immunoelectrophoresis
- iv) Counter current Immunoelectrophoresis
- v) Immunoelectrophoresis
- vi) Lymphocyte separation
- vii) DOT ELISA
- viii) IgG purification

#### **6. Enzyme Technology** **Rs. 5000/-**

- i) Production & Screening for potent enzyme producers - plate assays
- ii) Optimization of enzymes
- iii) Enzyme precipitation
- iv) Quantification of enzymes
- v) Purification of enzyme
- vi) Molecular characterization of enzymes
- vii) Application of enzymes