Biotech Project: Plant Molecular Biology

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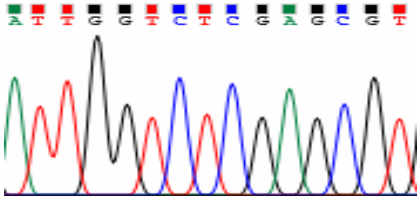

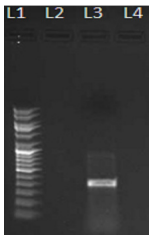

Plant molecular biology: Projects are based on ITS2 as a molecular marker for plant identification. Some of the plants we identified and some publications (published article or NCBI database publication or both) available from lab are: Tinospora cordifolia, Tinospora sinensis, Ocimum tenuiflorum etc. Project will be based on similar lines and in continuation of these topics, so that we can extend to publication with sizeable samples. We also work on SCR, RAPD, ISSR and other plant genes. Current focus is on Ayurveda Genomics, Plant systematics, Molecular taxonomy, conservation of wild plants in India and Natural herbal product pharmaceuticals from the herbal source.

Course content of Plant molecular biology based projects: 1. Plant identification system: theory and background, molecular markers, RAPD, ISSR, SCAR, Male specific DNA sequences in plants, DNA barcoding for plant identification, Botanical survey of India and plant studies, Ayurveda and tranditional knowledge in India and its applications in modern medicines, Plants being studied for sickle cell disease in India and world, Plant based drugs: malaria and diabetes, research papers from our lab 2. Molecular Biology: DNA extraction, Gradient PCR for 6 moths project, Scale up PCR, Electrophoresis for Gradient PCR for 6 moths project, Electrophoresis for scale up PCR product, DNA sequencing sample preparation 3. Bioinformatics: DNA sequence data analysis, Data cleaning by Bioedit, BLAST, BLAST2, ITS2 database, Phylogeny based on ITS 2 region. Phylogenetic analysis based on family / genus / species group (any one for 4 months' project / all three for 6 months' project), Secondary structure prediction of IT2 for 6 months' project Duration: 3 to 4 months (single plant molecular identification studies) and 6 months (two plants comparative genomic studies); First authorship in NCBI database for all project (excluding RAPD projects). Fees: Genomics based projects, Rs. 40,000/- and Rs. 60,000 for one individual project per student. RAPD projects Rs. 30,000/- (with No DNA sequencing and no NCBI authorship)

Key features while learning at ATG LAB

Original work and entirely new project designed for your needs based on your CV, current industry requirements in molecular biology, Initial training before starting of the project, guidance on review of literature, wet lab demonstration, individual handling of instruments, protocol set up, calculations and learning from failure and trouble shooting in molecular biology, publication in NCBI database as first author. (i.e. data generated will be published in NCBI database with first authorship for research student).

Benefits after completing research project from ATG LAB

1. Case studies of successful research students from ATG LAB including director, ATG LAB for PhD and Post Doc studies (in India and abroad),
2. Recommendation for further job and PhD studies abroad along with sharing contacts of past students who are placed in India and abroad for guidance for MS / PhD studies abroad.
3. Complete guidance on PhD preparation in biotechnology and life sciences, including statement of purpose (SOP) for different universities in USA, UK, Europe and Australia and Canada, passport and visa guidance and CV preparation etc. with 50% discounted rates

For admission, send completely filled registration form to ATG LAB, 1- Saurabha Apartment, Ganesh Nagar, Pimple Nilakh, Pune 411027. For more information, read registration form. Call 02065104543 or 9921446321 or email to atgbiotechproject@gmail.com For further details of earlier projects and facilities, visit www.biotechpune.com

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