



Final year individual research projects for Under graduates, Graduates and Post Graduates in Biotechnology and Life Sciences (Engineering and science)

Research project in Biotechnology

At ATG, we are providing individual biotech projects with advanced protocols in general biotechnology (Sample preparation, nucleic acid extraction, Gradient PCR, Touch down Scale-up and general PCRs, DNA sequence studies, Applied bioinformatics, prediction of protein and its 3D structure). We have designed these protocols by considering job requirement after completion of graduate or post graduate degree in science / engineering. Main aim of the project at ATG is to provide state of the art molecular biology to student under individual projects which will not only make them confident in day to day lab studies but also transform them from fresh student into independent researcher. For laboratory facilities visit facility pages in our website www.atgbiotech.com. Student can use this data for submitting in their final year dissertation / research project. We don't provide any placement to student, but our students are placed in very good R&Ds in India and abroad. ATG provides life time support for all student during their career development. Projects at ATG certainly boost student's confidence in interviews and always found to be helpful even after placement. This is a golden opportunity for fresh students to get trained before they enter in highly competitive job market.

Remember "*Selection is after interview is difficult but to retain job after selection is more difficult*". At ATG we help in learning basics as well as troubleshooting your research protocols by providing hands on protocols in encouraging working environment.

Flexible Duration

ATG project 1: (2 months): workflow based fast track project with more emphasis on analytic skills (Conclusive short term studies) with orientation program in laboratory protocols: for students who are short of time and wants complete in minimum duration.

ATG p2 : (4 months): Non protein coding gene 16S rRNA (Partial sequencing): B.Sc., B.Tech., M.Sc., Biotech : project with standardization of wet lab protocols such as DNA extraction, PCR, DNA sequence data analysis by introductory bioinformatics tools.

ATG p3: (6 months): Non protein coding gene 16S rRNA (90% sequencing): B.Tech., M.Sc., Biotech : project with standardization of wet lab protocols such as DNA extraction; gradient PCR: optimization and standardization; DNA sequencing standardization and optimization with basic bioinformatics data analysis; BLAST, BLAST2, BLAST tree etc.

ATG p4: (6 months): Non Protein coding gene: (e.g. ITR- Internal Transcribed Spacer Region, 90% sequence) B.Tech., M.Sc., Biotech : project with standardization of wet lab protocols such as DNA extraction; gradient PCR: optimization and standardization; DNA sequencing standardization and optimization with basic bioinformatics data analysis; BLAST, BLAST2, BLAST tree etc.

ATG p5: (>6 months): Protein coding gene: e.g. rpoB > 500 nucleotides M.Sc., M.Tech. Biotech & post M.Sc. project: Standardization of wet lab protocols such as DNA extraction, PCR optimization and standardization, DNA sequencing standardization and optimization with basic bioinformatics data analysis, BLAST, BLAST2, BLAST tree, DNA sequence reading with Bioedit, Multiple Sequence alignment, Phylogenetic analysis, Comparative structure prediction of protein based on NCBI structure database

ATGp6: (>8 months): Protein coding gene: M.Tech. Biotech & post M.Sc. project: project with standardization of wet lab protocols such as DNA extraction, PCR optimization and standardization, DNA sequencing standardization and optimization with basic bioinformatics data analysis, BLAST, BLAST2, BLAST tree, DNA sequence reading with Bioedit, Multiple Sequence alignment, Phylogenetic analysis, Comparative structure prediction of protein based on NCBI structure database.

REGISTRATION PROCESS: For more details download registration form and read how to start research at ATG Imp. Note: 1. First authorship in NCBI database publication (atgp3, 4, 5 & 6); 2. Group authorship (in atgp2 and atgp4) 3. Please read registration form for more details (study areas etc.) or call the Director ATG LAB if you have any queries.

DEVENDRA LINGOJWAR, Director

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