

CELEBRATING SILVER JUBILEE YEAR 1999 ICMR - 2024 ADEETECH

or upcoming events, hands-on workshops, national and international conterences facilities of diagnostics, contract research on Sickle Cell Disease please contact www.adeetech.com info@adeetech.com +91 70209 70265
⁺ For product and services www.sicklecelldisease.com For upcoming events log on to www.sicklecelldisease.com

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First Indian Company working on skill development in Biotech, including Genetics and Genomics



- OHuman Molecular Genetics
- OPlant Molecular Biology OMolecular Entomology
- Molecular Microbiology
- Applied Bioinformatics and Virology

Admission Process: Send scan copy of Reg. form, fees receipt and college recommendation letter to: <u>info@adeetech.com</u> or WhatsApp 7020970265 Dr. Devendra Lingojwar has founded two companies, ADEETECHGENE BIOTECH PVT. LTD., (2018) ATG LAB (2007) and one Non-Profit NGO RESEARCH (2001). For sickle cell disease field work and for skill development in PCR genomics these are pioneering in India. Along with skill development, these companies provided Academic research services and contract research projects in India in the areas of Molecular Biology covering various fields: Human Genetics and genomics, Molecular Microbiology, Plant Molecular Biology and Human Virology since 2007.



He has contributed his services USA and INDIA in Human Genetics specifically in Sickle Cell Disease from simple field work-based epidemiology at National Institute of Immunohematology NIIH ICMR Mumbai India to complex plasma expander-based drug discovery program at Albert Einstein College of Medicine Yeshiva University and Montefiore New York City, NY USA. rDNA Vaccine and B19 virus discovery in India at National Institute of Virology – ICMR. Sickle Cell Disease as field work program through his own NGO and various collaborations. Teaching virology at DY Patil University and Beta thalassemia detection kit IRSHA Bharati University. More than 14 years of experience in Molecular Biology and Genomics and 3 years in Protein Biochemistry.

ATG.....First Student Oriented brand in India established in 2007. Trained thousands of students and faculties from all over India and abroad including PhD's. Since 2007, with a decade of experience of providing guidance in biotechnology and life sciences, success stories from our laboratory are self-explanatory, why you should join our team for planning and building your career. Taking only merit student and absorbing in own R&D lab that's the trend of most of the established big labs in India. But the real fun is taking any student wherever they are, at present (irrespective of the marks, gap after marriage for girl students, caste, religion, region, language, color, race, ethnicity and nationality with full understanding of their real problems) and making their career.

Our aim is to provide very good research platform with full freedom for budding scientists. The vision and scientific aptitude we create among students in our lab boosts the confidence in graduate and post graduate students required not only in interviews and but also conducting effectively their actual duties in academics, R&Ds, biotech companies, jobs and career abroad. This will be a golden opportunity to build enough confidence before fresh student enter in job market. Exchange of ideas among the faculties, students and ADEETECH's student community on Facebook, LinkedIn and other social platform as well as past students who are working in USA and other countries. Most of our programs, be it a training or projects, proved beneficial for career guidance for fresh students who wants to go abroad. Contacts and guidance of these eminent persons in their field, with the bond we established, spanning more than a decade will be enough for building strong research profile before project completion.

ADEETECH provides variety of final year dissertation, final year research projects and fees-based internship training in the range of cost effective @ Rs. 10,000/- per month to Rs. 15,000/- for minimum 3 months, 4 months and 6 months. Student will be paying fees for laboratory charges and it is based on course contents and not duration. ADEETECH'S premium services are for those who are planning to go abroad for further education, MS or PhD degrees, or at present serving as a faculty or international students and wants to finish hands on training is minimum duration, can take these courses.



ATGP1/P2/P3 RESEARCH PROJECTS IN HUMAN GENETICS AND GENOMICS

One of the most appreciated projects by students who wants to go abroad and want to make career in human genomics. A very rare course with equal weightage on wet lab and in silico bioinformatics course contents. We also provide field work based projects in tribal areas and also only lab based projects at Pune location.

Key features:

Theory: Review of literature, Scientists and institutions working in India and abroad, Current status of India in the subject of interest. Calculations, Reactions setup, Thesis writing guidance, PPT preparation, Mock presentation.

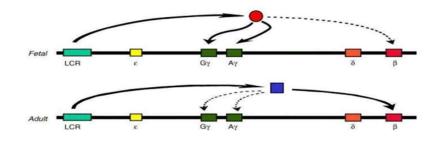
Practical / Wet lab protocols/ Bioinformatics *insilco* work: Database Selection of gene, Primer design, human genomic DNA extraction, PCR standardization, Scale up PCR, Post PCR purifications, DNA electrophoresis, DNA sequencing sample prep, DNA sequence analysis, Mutation studies, Protein modelling.

Deliverables: Original research project, NCBI database publication with first authorship (in all 6 months project without discount), Nucleotide and protein database, Recommendation and career guidance for study abroad: USA and western countries.

Projects for PhD, M.Sc. B.Sc. B.Tech, M.Tech. in Biotechnology.

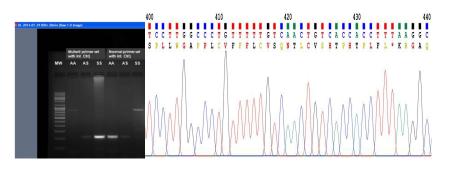
ATGP1: HUMAN GENETICS AND GENOMICS

Area of research: Beta Globin Haplotyping in Sickle Cell Disease

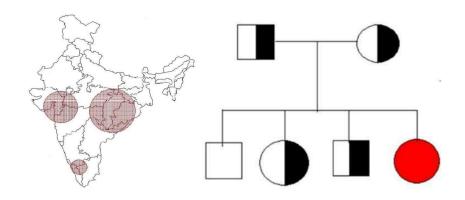


ATGP2: HUMAN GENETICS AND GENOMICS

Area of research: Genetic Modifiers in Sickle Cell Disease in India



ATGP3: HUMAN GENETICS: EPIDEMIOLOGY DATA ANALYSIS / GENE FREQUENCY STUDIES IN SCD Area of research: Gene frequency studies in Sickle Cell Disease





ATGP4/P5 RESEARCH PROJECT IN PLANT MOLECULAR BIOLOGY AND PLANT

One of the most cost effective program for PhD students and easy for project completion in minimum duration with NCBI database publication-based lab studies. Appreciated projects by International students and faculties interested in Plant molecular biology. A very rare course on DNA barcoding and molecular markers with basic step and its intricacies which can be easily masters at ADEETECH for any advanced technology later.

Key features:

Shifting from traditional RAPD RFLP to single gene DNA barcoding based on ITS2, rbcl, matk, rpoB etc. For medicinal plants ITS2 is the best molecular marker for species level identification.

Theory: Review of literature, Scientists and institutions working in India and abroad, Current status of India in the subject of interest. Calculations, Reactions setup, Thesis writing guidance, PPT preparation, Mock presentation.

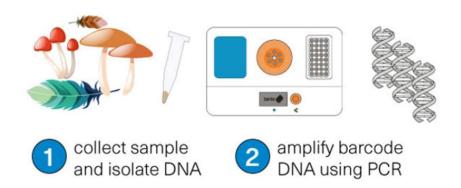
Practical / Wet lab protocols/ Bioinformatics insilco work: Database Selection of gene, Primer design, plant genomic DNA extraction, PCR standardization, Scale up PCR, Post PCR purifications, DNA electrophoresis, DNA sequencing sample prep, DNA sequence analysis, Mutation studies, Secondary structure prediction, Molecular Phylogeny.

Deliverables: Original research project, NCBI database publication with first authorship (in all 6 months project without discount), Nucleotide and protein database, Recommendation and career guidance for study abroad: USA and western countries.

Projects for PhD, <u>M.Sc. B.Sc. B.Tech, M.Tech. in</u>

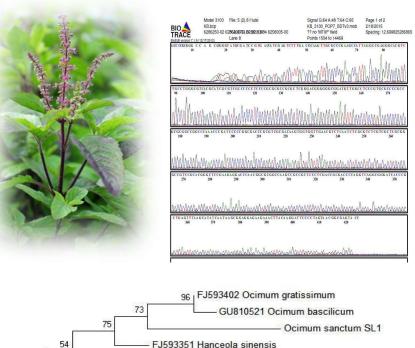
ATGP4: PLANT MOLECULAR BIOLOGY

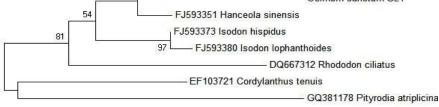
Area of research: DNA Barcoding using matK, rbcl and other molecular marker genes



ATGP5: PLANT MOLECULAR BIOLOGY

Area of research: DNA Barcoding using ITS1, and ITS2 and other molecular marker genes





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ATGP6/P7 RESEARCH PROJECT IN MOLECULAR MICROBIOLOGY

We started Molecular Microbiology in 2007 and completed hundreds of training programs and final year projects for M.Sc. B.Sc. M. Tech B. Tech projects and published in NCBI Database.

For any biotechnology student microbial handling is required for next level advanced technologies. This is most appreciated projects by International students and faculties interested in bacterial genomics and molecular biology. Key genes studied so far: 16S rRNA, rpoB, Cyt C, ATP Synthase etc.

Key features:

16S rRNA is the choice of molecular identification and its in practice for a long. However, unless more than 90% sequence is done and cover all hypervariable regions, only junk will be published on NCBI. Since 2007 we are working on majority of bacterial molecular identification based on all 9 hypervariable region, which helped many taxonomists to correctly report related species.

In case few bacterial specific couldn't get identified, alternative genes needs to be explored. We have worked on rpoB for Bacillus cereus group bacteria.

For bioenergetics, ATP Synthase and Cytochrome we are exploring, along with 16S rRNA and rpoB.

Theory: Review of literature, Scientists and institutions working in India and abroad. Calculations, Reactions setup, Thesis writing guidance, PPT preparation, Mock presentation. Practical / Wet lab protocols/ Bioinformatics *insilco* work: Database Selection of gene, Primer design, plant genomic DNA extraction, PCR standardization, Scale up PCR, Post PCR

ATGP6:MOLECULAR MICROBIOLOGY

Area of research: Bioenergetics, Bioenergy, Cimate action programs, CRISPR Cas9 and Genetic Engineering



B_pseudo_OF4 B_clausii_KSM Lysini_DL15 B_megate_DSM E_coli_K12

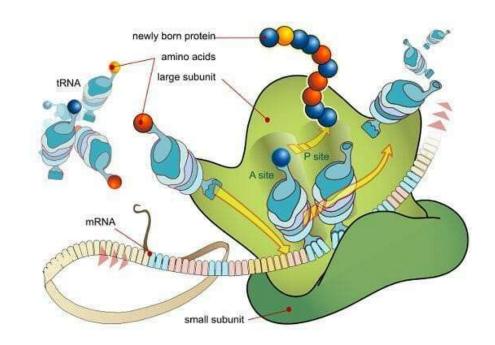
B_pseudo_OF4 B_clausii_KSM Lysini_DL15 B_megate_DSM E_coli_K12

MAFLGAAIAAGLAAVAGAIAVAIIVKATIEGTTROPELRGTLOTEMPIGVPLA 53
MTELAIGIAAGLAAIGGAIGVAIIVKAVIEGTAROPEORGTLOTLMFIGAPLA 53
MGLIASAIAIGLAALGAGIGNGLIVSKTIEGTAROPEARGTLTSMMFVGVALV 53
MENLNMDLLYMAAAVMMGLAAIGAAIGIG
and a second
EAVPIIAIVISLLILF 69
EAVPIIAIVIAFLLFFMG- 71
EALPIIAVVVAFIVMNK 74
EALPIIAVVIAFMVQGK 70

ATGP7:MOLECULAR MICROBIOLOGY

Area of research: Biodiversity in India, Molecular Phylogenetics

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ATGP8/P9 RESEARCH PROJECT IN MOLECULAR ENTOMOLOGY

After series of experimentation for private companies and contract research project we are providing molecular entomology as a subject area of interest for students who want to explore career in arthropod diseases or Arboviruses. Insects are the largest number of living organisms and more than 9 million species are existing on the Earth.

Key genes studied and planned for student's projects: ITS 2 and COX I

Key features:

Cytochrome Oxidase I (COXI) is the choice of molecular identification for insects and its in practice for a long. We are providing projects based on COX I, ITS2 and ITS2 with RFLP or DNA Sequence based RPLP.

Priority insects are vectors of Malaria and Dengue.

Theory: Review of literature, Scientists and institutions working in India and abroad. Calculations, Reactions setup, Thesis writing guidance, PPT preparation, Mock presentation. Practical / Wet lab protocols/ Bioinformatics *insilco* work: Database Selection of gene, Primer design, plant genomic DNA extraction, standardization, Scale up PCR, Post purifications, DNA electrophoresis,

sequencing sample prep, DNA sequence analysis, Mutation studies, Secondary structure prediction, Molecular Phylogeny.

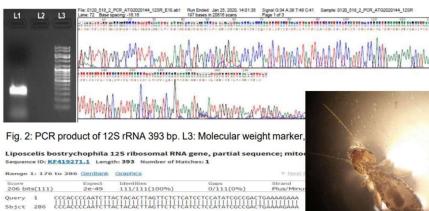
Deliverables: Original research project, NCBI database publication with first authorship (in all 6 months project without discount), Nucleotide and protein database, Recommendation and career guidance for study abroad: USA and western countries.

ATGP8: MOLECULAR ENTOMOLOGY

Areas of research: Medical Biotech: Malaria and Dengue



ATGP9: MOLECULAR ENTOMOLOGY Areas of research: Agribiotech and vector control program



Query 61 AGCATAAATTTTTATTTGTCAGTTTTAAGCTGTTAAGTCAGGTAAAGATG 111 Sbjct 226 AGCATAAATTTTTATTTGTCAGTTTTAAGCTGTTAAGTCAGGTAAAGATG 176



Post COVID19 Pandemic, there is huge investment in virology field for next 10 years and more skilled human resource is required in upcoming decades. For developing BSL3 and BSL4 labs, within India also huge investment from public funding is expected if future pandemics are to be tackled, apart from private players investment. And if you are planning to go out of India, then this is most significant field to make career in Biotech. By providing easy nonhazardous plant virus as a model virus, we want to pass on all virology techniques to students without hazard and by going *in silico* studies they will understand all four types of viruses based on risk to humanity which they can study in BSL2, BSL3 and BSL4 labs in future wherever they get chance to work on

First time in India by private lab

Virology Education for anyone interested in Virology with any science or engineering degree.

Virology Basics: Molecular Biology of Viruses. Replication strategies of different types of viruses based on nature of DNA and RNA genome. Genome organization. Plant and animal viruses, Antigen test, antibody test, ELISA recent and past infections and types of ELISA, Virus neutralization tests, virion and multiplicity of infection. Viral life cycle, viral pathogenesis in human host. Significant Plant viruses.

New and emerging viruses in the world. SARS Corona virus, HIV, HCV, HBV, HAV, HEV, Parvovirus B19, Cytomegalovirus, Zika virus, Ebola virus, Vaccine research and recent trends in virology for jobs and career development. HEV and Dengue.

Duration: 6 months

Bioinformatics for Virology: Types of viruses based on Genome DNA and RNA, viral genome organization, protein sequence comparative antigen sequence, epitope mapping for antigen kit R&D, DNA and RNA sequence data analysis for conserved region test development for RT PCR Tests, Viral genomics and proteomic for phylogenetics studies, variant detections using bioinformatics tools. Similarities and differences in COVID19 variants. Past, present, and predictedfuture of COVID19.

Deliverables: Original research project in applied Bioinformatics for Virology. Unique course in virology by online mode: For final year students in Biotechnology, Microbiology and any other field of Science and Engineering who are interested to make career in Virology.

Most exciting area post COVID19 Pandemic. To introduce virology using nonhazardous plant virus for making virology open for general public is our aim. Once you get trained in plant virology, same protocols can be used to study human viruses if gets opportunity to study in India or abroad, mainly in USA, EU region.

ATGP10: Applied Bioinformatics for MOLECULAR VIROLOGY

Area of research: Non risk group virus from plant origin

The International Committee on Taxonomy of Viruses (ICTV) lists nearly 2,000 different species of plant viruses. Some of them we are working on are: e.g. Tomato spotted wilt virus, Tobacco mosaic virus, Chili leaf curl virus, potato virus X, Alfalfa mosaic virus, Ageratum enation virus, Banana bunchy top virus, Onion yellow dwarf virus etc.

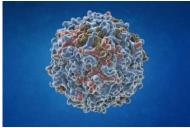
Learning virology is very easy but you need Guru who want to teach you. And guru with his lab is very rare in India. We intentionally made this science easy accessible for students in India and now many students from other countries too coming to India to get benefitted from this efforts we started in 2007.



No Lab / Only Bioinformatics, *in silico* mode / online project: Maximum Certified Duration: 6 months

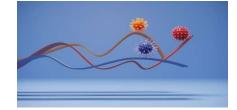
Risk group II virus: Parvovirus B19 and all Parvoviruses, All Hepatitis. More about BSL2 Labs: Diagnostics and Therapeutics





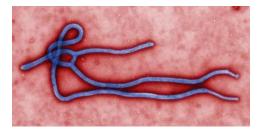
Risk group III virus: Influenza, SARS1 and SARS2 COVID19, HIV, Dengue viruses. More about BSL3 and BSL2+ Labs: Diagnostics and Therapeutics





Risk group IV virus: (Only Bioinformatics, *in silico* mode, online project) Ebola, Marburg, Lassa Fever, Rift Valley Fever, FMD, More about BSL4 Labs: . Maximum Certified Duration: 6 months





CONTACT



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FEEDBACK AND TESTIMONIAL FROM OUR PAST STUDENTS, INTERNATIONAL FACULTIES AND STUDENTS

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Social sites and our studies

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https://www.ncbi.nlm.nih.gov/nuccore/?term=lingojwar

https://scholar.google.com/citations?user=tsq9ab0AAAAJ&hl=en&oi=ao

https://www.researchgate.net/lab/Devendra-Lingojwar-Lab

Research and social activities in India and USA

www.sicklecelldiseaseindia.com

www.adeetech.com



Student ID No. ADEETECH/2023-24/_____

info@adeetech.com www.adeetech.com

Faculty / Scientists / Student's details	Paste
Name	Passport
Passport /Aadhar Card No Date of Birth Male / Female	Size front
Imp Note: If the intention of the foreigner is to stay for more than 180 days, he/she should get himself/herself registered with the Foreigners Registration Officer concerned. (For more details please visit, https://indianfrro.gov.in/eservices/home.jsp)	facing color photograph here
Father's / Husband's name	

Contact No (Landline and mobile)
Permanent address

Class & Semester / Year(B.Sc./ M.Sc. / B.Tech. / M.Tech / MS / BE / MBA Biotech etc) Degree / Institution / College / University details with address

 Please tick (√) what is applicable:

 Dissertation /
 Graduate and Post
 Training for
 Training for International
 PhD program lab

 Final Year Project
 Graduate Internship
 Indian Students
 students / faculties
 services

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Candidate's contact details: Email

Mobile:

Required documents for Registration:

1. Completely filled registration form along with lab fees transaction proof (For All Services)

2. Recommendation letter from Institute (For final year projects only: 4 / 6 / 8 months duration).

3. Photocopy of ID proof: Any one (Aadhar card/ PAN/ Driving License/Voter ID/ Passport etc.)

Details of online payments: (However, Google pay/ Cash also accepted).

Account Name: ADEETECHGENE BIOTECH PRIVATE LIMITED (18% GST Applicable on fees mentioned) Bank: Bank of Baroda, Aundh Branch Pune

Account Number: 386 002 000 002 29 IFS code: BARBOAUNDHX Swift Code: BARBINBB Registration Process: Send this completely filled registration form along with above documents and receipt of the online fees paid i.e. 100% of the total fees (as per pricelist) to info@adeetech.com

1. For final year research project / dissertation (resulting in hard bound copy of thesis and PPTs): All research projects are individual basis and few with first authorship publication in NCBI database i.e., Nucleotide or Nucleotide plus protein. Guidance will be provided for entire project; however, thesis writing is responsibility of research student. Additional paid service for thesis writing can be made available through our faculties, in an exceptional case where final year research students couldn't complete thesis writing in time, due to marriage, accidents or any other unavoidable circumstances.

2. For final year internship (no thesis only certification): Final year internship and intermediate years internship is available at ADEETECH[®] in the ongoing inhouse projects based on services or products of ADEETECH[®] Biotech internship students will be trained in any of our areas of research services or products. Each and every intern agree that knowledge of any product or services of our company they gain at ADEETECHGENE BIOTECH PRIVATE LIMITED (ADEETECH[®]) is an intellectual property of ADEETECH[®] and they don't have right to share these details after completing their work at ADEETECH[®] to individuals or companies other than ADEETECH[®]

3. Fees: All student agree that they will do 100% advance payment or post-dated cheques to avoid payment follow-up.

18% GST Applicable on all fees mentioned

Details of online payments:

For NEFT, IMPS: online payment through bank

Account Name: ADEETECHGENE BIOTECH PRIVATE LIMITED

Bank: Bank of Baroda, Aundh Branch Pune Account Number: 386 002 000 002 29 IFS code: BARB0AUNDHX

(Google pay/ Cash also accepted).





2023



SILVER JUBILEE OF HARD WORK, PASSION AND DETERMINATION IN

Sickle Cell Disease

2047

CELEBRATING SILVER JUBILEE YEAR 1999 ICMR - 2024 ADEETECH

For upcoming events, hands-on workshops, national and international conferences, facilities of diagnostics, contract research on Sickle Cell Disease please contact www.adeetech.com info@adeetech.com +91 70209 70265 For product and services www.sicklecelldisease.com For upcoming events log on to www.sicklecelldiseaseindia.org



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