Biotechnology Project by

ADEETECH

- Human Molecular Genetics
- Plant Molecular Biology
- Molecular Entomology
- Molecular Microbiology
- Applied Bioinformatics and Virology

Admission Process: Send email to info@adeetech.com with scan copies of :

1. Registration form (available at the end of this file).
2. Recommendation Letter from college / institute (format available at the end of this file)
3. Receipt of the fees paid for admission (Account details available in registration form)

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.

Perfect Timing Beautiful Execution

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.

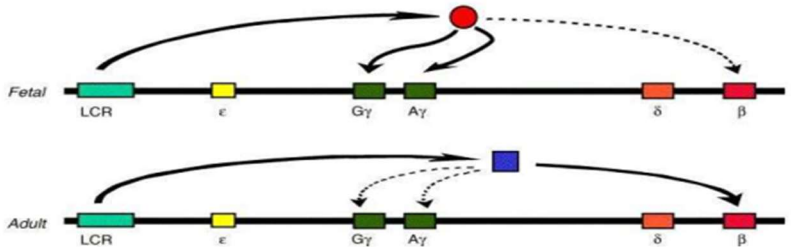
Practical / Wet lab protocols/ Bioinformatics *insilco* work: Database **Selection of gene,** Primer design, human genomic DNA extraction, PCR standardization, Scale up PCR, Post PCR purifications, DNA electrophoresis, DNA sequencing sample prep, DNA sequence analysis, Mutation studies, Protein modelling.

Deliverables: Original research project, NCBI database publication with first authorship, 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.

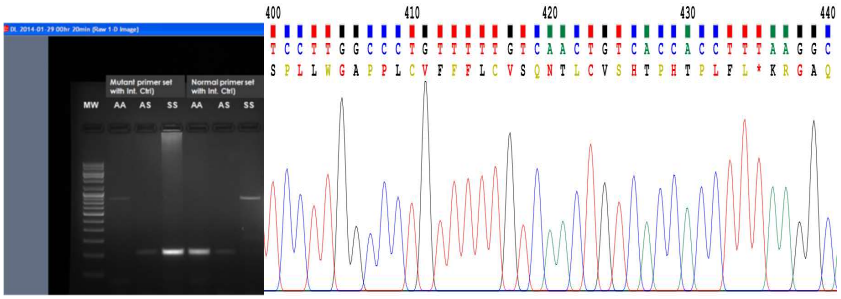
ATGP1: HUMAN GENETICS AND GENOMICS

Fees: Rs. 90,000/- Maximum Certified Duration: 6 months
Area of research: Beta Globin Haplotyping in Sickle Cell Disease



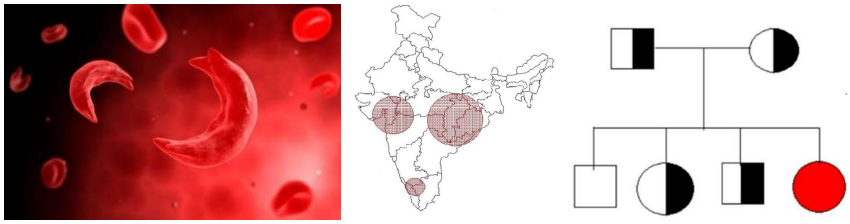
ATGP2: HUMAN GENETICS AND GENOMICS

Area of research: Genetic Modifiers in Sickle Cell Disease in India
Fees: Rs. 90,000/- Maximum Certified Duration: 6 months



ATGP3: HUMAN GENETICS: EPIDEMIOLOGY DATA ANALYSIS / GENE FREQUENCY STUDIES IN SCD

Area of research: Gene frequency studies in Sickle Cell Disease
Fees: Rs. 90,000/- Maximum Certified Duration: 6 months



ATGP4/P5 RESEARCH PROJECT IN PLANT MOLECUALR 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.

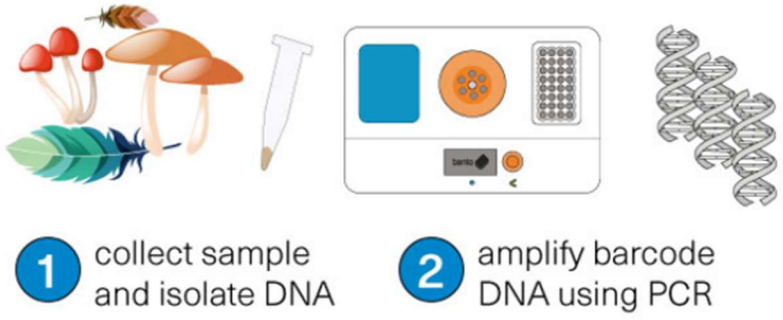
Practical / Wet lab protocols/ Bioinformatics *insilco* work: Database **Selection of gene,** Primer design, plant genomic DNA extraction, PCR standardization, Scale up PCR, Post PCR purifications, DNA electrophoresis, DNA sequencing sample prep, DNA sequence analysis, Mutation studies, Secondary structure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

Deliverables: Original research project, NCBI database publication with first authorship, 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.

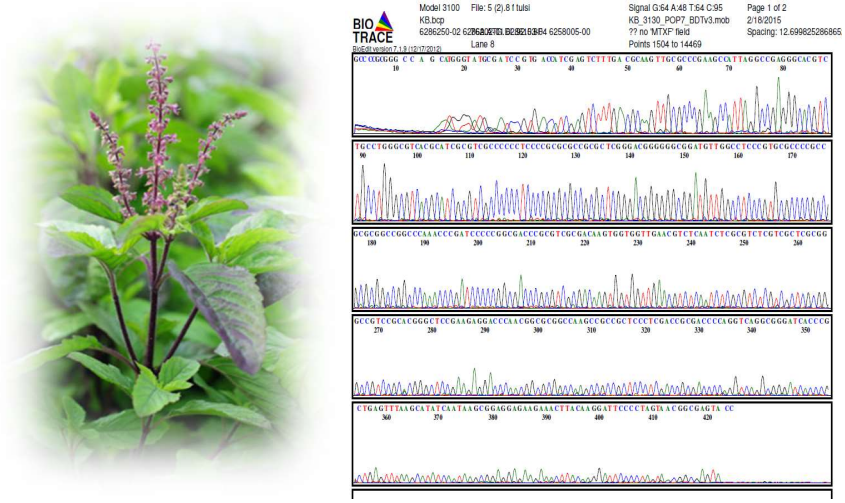
ATGP4: PLANT MOLECULAR BIOLOGY

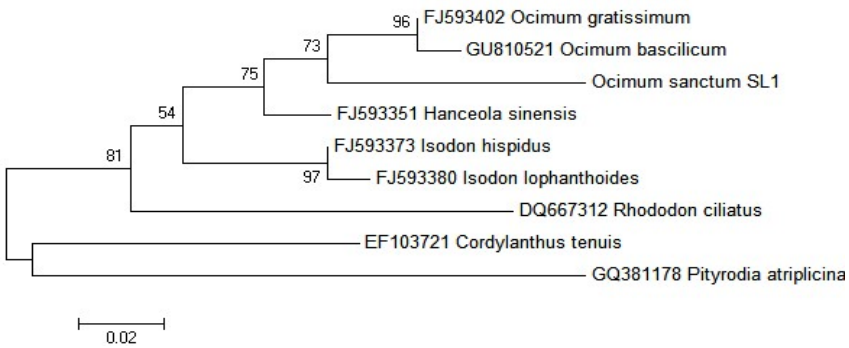
Fees: Rs. 90,000/- Maximum Certified Duration: 6 months
Area of research: DNA Barcoding using matK, rbcl and other molecular marker genes



ATGP5: PLANT MOLECULAR BIOLOGY

Fees: Rs. 60,000/- Maximum Certified Duration: 6 months
Area of research: DNA Barcoding using ITS2 region

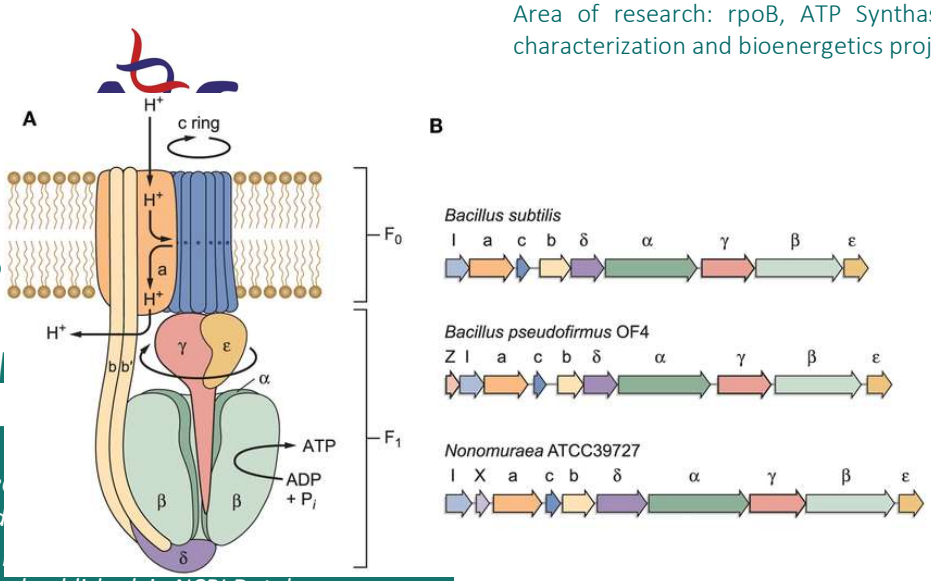




ATGP6:MOLECULAR MICROBIOLOGY

Fees: Rs. 90,000/- Maximum Certified Duration: 6 months

Area of research: rpoB, ATP Synthase, Cytochrome C based molecular characterization and bioenergetics projects.



RES

We starte
completed
final year
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.

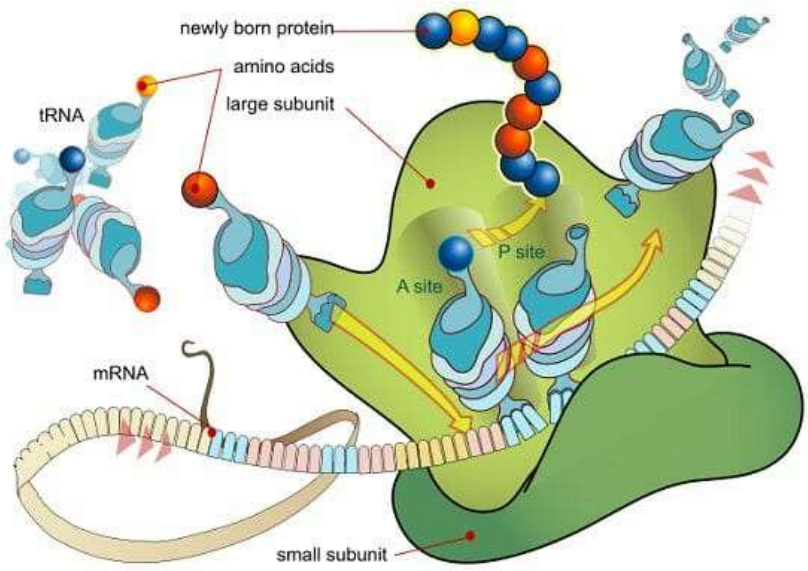
For bioenergetics, ATP Synthase and Cytochrome we are exploring, along with 16S rRNA and rpoB.

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

ATGP7:MOLECULAR MICROBIOLOGY

Fees: Rs. 60,000/- Maximum Certified Duration: 6 months

Area of research: 16S rRNA based ribotyping for molecular identification based projects.



ATGP8/P9 RESEARCH PROJECT IN MOLECUALR MICROBIOLOGY

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, 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, Nucleotide and protein database, Recommendation and career guidance for study abroad: USA and western countries.

ATGP8: MOLECULAR ENTOMOLOGY

Fees: Rs. 90,000/- Maximum Certified Duration: 6 months
Area of research: COX-1 and other DNA sequencing-based DNA barcode genes.

ATGP9: MOLECULAR ENTOMOLOGY

Fees: Rs. 60,000/- Maximum Certified Duration: 6 months
Area of research: ITS2 and other DNA sequencing-based DNA barcode genes

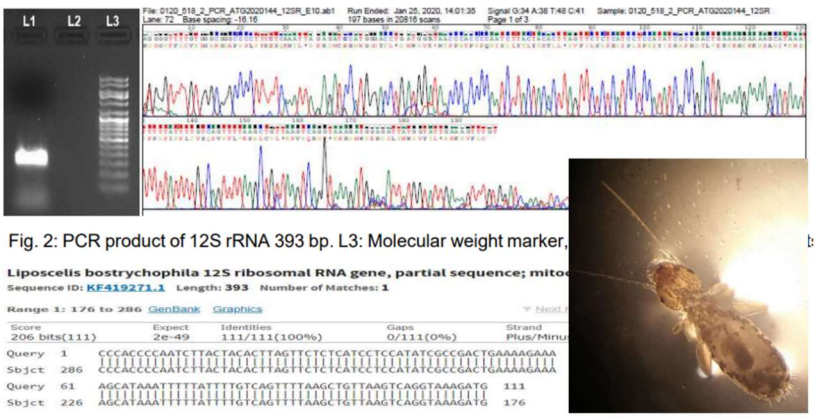


Fig. 2: PCR product of 12S rRNA 393 bp. L3: Molecular weight marker,

Perfect Timing Beautiful Execution

ATGP10
APPLIED BIOINFORMATICS FOR MOLECULAR VIROLOGY

First time in India

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

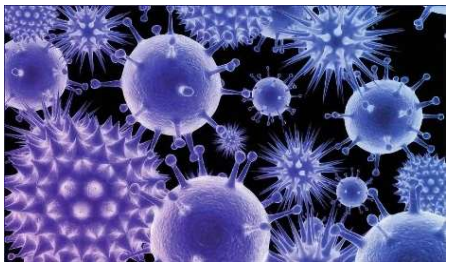
Bioinformatics for Virology: Types of viruses based on Genome DNA and RNA, viral genome organization, protein sequence comparative antigen sequence, epitope mapping for antigen kit R&D, DNA and RNA sequence data analysis for conserved region test development for RT PCR Tests, Viral genomics and proteomic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

Deliverables: Original research project in applied Bioinformatics for Virology. Very 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 excited area post COVID19 Pandemic.**

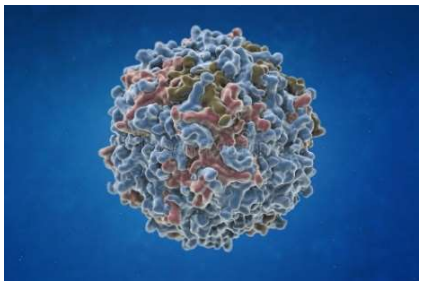
ATGP10: Applied Bioinformatics for **MOLECULAR VIROLOGY**

Area of research: All Risk Group (RG) viruses: (BSL 1 to BSL4 viruses)

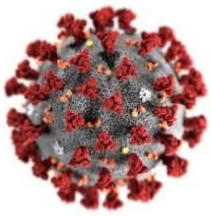
Risk group I virus: Bovine Respiratory Syncytial Virus, Duck Hepatitis Virus
Fees: Rs. 60,000/- Maximum Certified Duration: 6 months

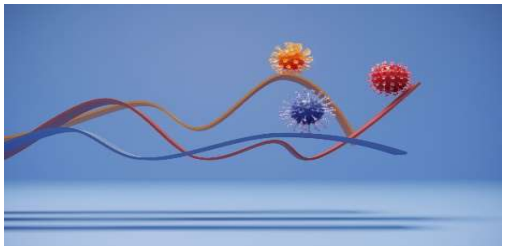


Risk group II virus: Parvovirus B19 and all Parvoviruses, All Hepatitis viruses.
Fees: Rs. 60,000/- Maximum Certified Duration: 6 months

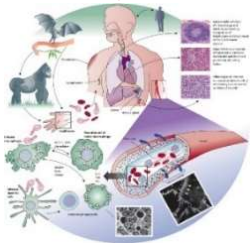


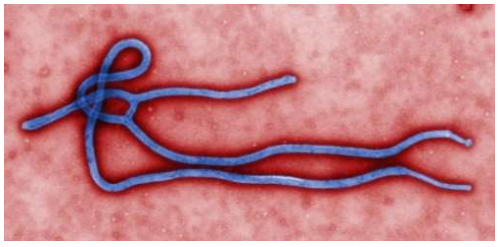
Risk group III virus: Influenza, SARS1 and SARS2 COVID19, HIV, Dengue viruses.
Fees: Rs. 90,000/- Maximum Certified Duration: 6 months





Risk group IV virus: Ebola, Marburg, Lassa Fever, Rift Valley Fever, FMD.
Fees: Rs. 120,000/- Maximum Certified Duration: 6 months





CONTACT

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Sarita Lingojwar
Cofounder and Director
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1000+ STUDENTS TRAINED AND MENTORED SINCE 2007

CALL OR WHATSAPP +91 7020970265 OR EMAIL TO INFO@ADEETECH.COM

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

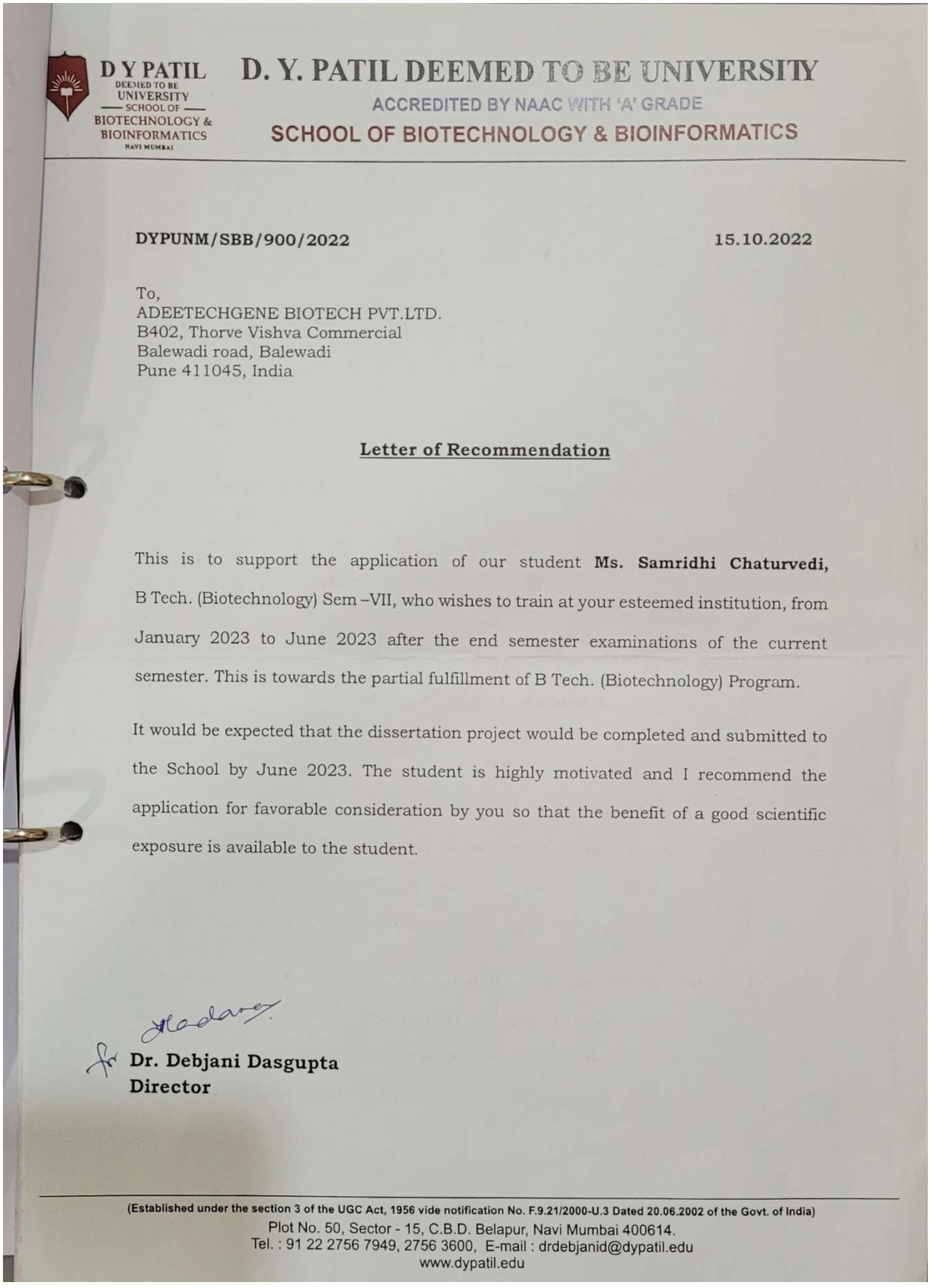
https://www.researchgate.net/lab/Devendra-Lingojwar-Lab

Research and social activities in India and USA

www.sicklecelldiseaseindia.com

www.adeetech.com

Format of Recommendation Letter from HOD



D Y PATIL DEEMED TO BE UNIVERSITY — SCHOOL OF BIOTECHNOLOGY & BIOINFORMATICS NAVI MUMBAI

D. Y. PATIL DEEMED TO BE UNIVERSITY

ACCREDITED BY NAAC WITH 'A' GRADE

SCHOOL OF BIOTECHNOLOGY & BIOINFORMATICS

DYPUNM/SBB/900/2022 **15.10.2022**

To,
ADEETECHGENE BIOTECH PVT.LTD.
B402, Thorve Vishva Commercial
Balewadi road, Balewadi
Pune 411045, India

Letter of Recommendation

This is to support the application of our student **Ms. Samridhi Chaturvedi,** B Tech. (Biotechnology) Sem –VII, who wishes to train at your esteemed institution, from January 2023 to June 2023 after the end semester examinations of the current semester. This is towards the partial fulfillment of B Tech. (Biotechnology) Program.

It would be expected that the dissertation project would be completed and submitted to the School by June 2023. The student is highly motivated and I recommend the application for favorable consideration by you so that the benefit of a good scientific exposure is available to the student.

Dr. Debjani Dasgupta
Director

(Established under the section 3 of the UGC Act, 1956 vide notification No. F.9.21/2000-U.3 Dated 20.06.2002 of the Govt. of India)
Plot No. 50, Sector - 15, C.B.D. Belapur, Navi Mumbai 400614.
Tel. : 91 22 2756 7949, 2756 3600, E-mail : drdebjanid@dypatil.edu
www.dypatil.edu

Registration form

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info@adeetech.com
www.adeetech.com

Faculty / Scientists / Student's details

Paste Passport Size color photograph here

Name.....
ID details (Passport / driving license no.).....Nationality.....
Date of Birth.....Male / Female

Imp Note: Clearance from FRO Pune office is mandatory for International scientists / students / Faculties ***International candidates should contact us in this regard before confirmation of any program

Father's / Husband's name.....
Contact No (Landline and mobile).....
Permanent address
.....Country.....
Class & Semester / Year .....(B.Sc./ M.Sc. / B.Tech. / M.Tech / MS / BE / MBA Biotech etc)
Degree / Institution / College / University details with address
.....
.....

Candidate's contact details: Email Mobile:

Please (✔) what is applicable:

Training ☐ Project ☐ Workshop ☐ International Training Program ☐

Duration: .....Days / Months. Dates, from..... to..... **Candidate's Signature**

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)
Bank: Bank of Baroda, Aundh Branch Pune
Account Number: 386 002 000 002 29 IFS code: BARB0AUNDHX
Registration Process: Send this completely filled registration form along with above mentioned documents and receipt of the online fees paid i.e. 100% of the total fees (as per pricelist of courses: Final year projects/ Training Programs / Onsite Workshop) and scan copies of documents to info@adeetech.com

IMP.NOTE: How to start Training / project / contract research / any other services

Once you decide, that you want to study (training / projects / any other services) and wants to confirm after initial discussion or email enquiry, with reference to project cost, duration, then send completely filled registration form with fees and necessary documents. Once it is received at our end following details, we will discuss with you….
1. For research project and contract research: We will send topic with one page write up including title, aims and objective, materials and methods, possible outcome of the thesis, Significance of the proposed research project, some references so that you can study more before your arrival. All research projects are individual basis and with first authorship for databased in NCBI. There is no group project in our lab. 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 training / workshop: We will plan your schedule as per provided dates or will let you know available dates Once we receive this completely filled form along with prescribed training / internship fees, we will send confirmation by email with details of finalized protocols on individual basis under training program.3. Payment and amount: There are no registration charges. However, 100% fees is compulsory along with registration which is nonrefundable. In case of installments 50% advance fees remaining 50% as postdated cheques at the time of admission.