



## Custom Research & Testing Services For Academic and Industrial Samples

Specific Studies And Parameters Can Also Be Standardized According To Client Requirement. We Have Expertise In Processing Different Kinds Of Samples Such As Mice, Rabbit, Fish Crab, Rat, Worms, Natural Compounds, Synthetic Compounds, Different Nano Particles, Textile Fabrics, Food & Feed Samples, Plant Samples And So On....

### We are doing support for the Following Studies:

Part Time Ph.D Work, All Kind of Animal Testing Services, – Invitro and Invivo, All kind of Animal cell line studies, Anticancer Studies, Anti Diabetic Studies, Anti Inflammatory Studies, MTT Assay, Cytotoxicity Test, Histo Pathological Work, Immuno Histochemistry, DNA Sequencing Service, Oligo Synthesis, Dissertation Work  
Journal Publication work, Contract Research, Customized Projects

#### PHYTOCHEMISTRY

Extraction of drug raw material with -different solvent systems Extraction of essential oils Qualitative phytochemical analysis Quantification of primary and secondary -metabolites

#### MICROBIOLOGY

Biochemical characterization of -microbial stains 16s rRNA sequencing studies Antimicrobial activity – zone of -inhibition, MIC, MBC, Pathogen detection in products – food products Test of antagonistic activities Anti mutagenesis studies – AMES test Preservative efficacy test Microbial total count – CFU Coliform – test Pharmacology test

### INVITRO STUDIES

#### Anti Oxidant And Free Radical Scavenging - Activity Test

DPPH radical scavenging activity  
ABTS radical scavenging activity  
Hydroxyl radical scavenging activity  
Super Oxide radical scavenging activity  
Nitric Oxide radical scavenging activity  
Lipid peroxidation inhibiting activity  
Reducing power  
FRAP  
Metal chelating activity  
Phospho molybdenum assay  
Anti Thalassaemia activity  
Anti hemolytic activity and SO ON.....

### ANTI INFLAMMATORY ACTIVITY

Protein denaturation inhibiting activity  
Proteinase inhibiting activity  
HRBC membrane stabilization activity

### ANTI DIABETIC ACTIVITY

A (Alpha) - amylase inhibiting activity  
A (Alpha) – glucosidase inhibiting activity

- **Acetyl / Butyryl Cholinesterase Inhibiting Activity**
- **xanthine oxidase enzyme inhibiting activity**
- **Brine Shrimp Lethality Test (BSLT)**

### INVIVO STUDIES

Toxicological Studies  
-(Acute & Chronic Models)  
Analgesic activity\*  
Anti-pyretic activity  
Anti-inflammatory activity\*  
Anti – arthritis activity  
Anti – ulcer activity\*  
Wound healing activity\*  
Anti oxidant activity  
Anti depressant activity\*  
Hepato protective activity\*  
Nephro protective activity\*  
Anti-hypercholesterolaemic activity  
Cardio protective activity  
Anti diabetic activity\*  
Anti cancer activity\*  
Hyper sensitivity activity\*  
\* Different models available

### Biochemistry Enzyme assay (in serum animal and plant tissues)

Carbohydrate Metabolizing Enzymes (Glycolytic And Gluconeogenic Enzymes) Liver marker enzymes | Cardio marker enzymes | Anti oxidant enzymes  
Transaminases enzymes | Phosphatases enzymes | Dehydrogenases enzymes | Reductases enzymes | Oxidases enzymes | ATPases enzymes

**Lipid Profile:** Other Biochemical Markers, Kidney markers (in serum), Gluco proteins (in tissues and gastric juice), Gastro protective markers (in gastric juice), Diabetic markers (in blood and tissue), Isolation and quantification of proteins, DNA and RNA in blood and tissues Complete blood count.

### Custom DNA Oligos

For PCR, DNA sequencing, and other applications Superior quality.

Several purity options are available, with stringent quality control for every oligo.

Flexible quantity, Reliable service, Purification options,

Custom RNA Oligos

State-of-the-art technology ensures customized RNA oligos in highest quality and express time.

Highest Quality, High synthesis yields, Fast delivery, Unmodified RNA, Modified RNA, Chimeric Oligos.

### ABOUT US & TRAINING

“Abbes Biotech” is an Indian based company originated in the year 2012. Abbes Biotech is an emerging Biotechnology company founded by proven expertise in Molecular Biology, Drug Discovery, microbiology, Bio-informatics, Plant Tissue Culture, Immunology And Bioscience.

Abbes Biotech believes in the life science students must undergo hard core training with hands on experience to improve their technical knowledge and other required soft skills to enable them capable to fit for their employment. The training offered by Abbes Biotech is completely practical oriented with a highly defined protocol which results in the trainees to obtain the ability to analyze and interpret the experimental data. The training program not just - only develops the technical knowledge but also improves the creativity nothing but they can able to use Molecular biology and other technical tools by themselves effectively the time and when, hence the application knowledge can be improved very well. We also helping them to improve and tuning up the technical communication and presentation skills through tasks like presentation, seminars, group discussions and assignments.

#### Salient Features of Training:

The module/course includes basic theoretical classes for all the experiments as various levels - What we could learn out of it, background and its applications, followed by expert demo, Calculations, relevant Bio-Instrumentation, planning, hands on work out of the experiment, observation and interpretation/justification of the results and proper way of recording the results, final test. Based on that we developed some 17 different course modules and Teaching kits and Research kits.

#### Course Coordinator :

Senior Project Manager, Well experienced in Industries R&D Over 10 years.

Abbes Biotech manufacturing wide range of Biotechnology and Immunology Teaching Kits, Electrophoresis Equipments and other Biotech Equipments, etc., Also offering Bioscience Students Final Year Projects and Research Projects, Work Shops, Hands On Training (On Campus and Off Campus), Internship Training Programs, Providing Custom Research Services, In Silico Research, Animal Testing Services *Invitro* and *Invivo* for Various Projects and Research Samples and Thesis Writing Services etc.,

In-Plant Training, continuous training program through out the year (Morning Session/After noon session), Week end program - Certificate Program, SUMMER TRAINING PROGRAM, Contract Research, Custom Research Services, Mini Projects in Biotechnology, Molecular Biology and Animal and Plant Tissue Culture -individually and also in group.

Made in India by:

**ABBES BIOTECH**

Regd Office:

No.9,1st Floor, Pachaiyappan Colony,  
Lakshmiapuram, Kolathur,  
Chennai-600 099. India.

R&D Lab:

Flat No.A16, Ground Floor,  
Balan Nagar,  
Masakali Palayam Road, Peelamedu,  
Coimbatore - 641 004.

Residential Office: **Delhi.**

Contact: +91 72999 53878, 99769 03682. E-mail: [abbesbiotech@gmail.com](mailto:abbesbiotech@gmail.com), [md@abbesbiotech.com](mailto:md@abbesbiotech.com)  
[www.abbesbiotech.com](http://www.abbesbiotech.com), [www.abbesbiotech.in](http://www.abbesbiotech.in)

## ABBES BIOTECH INDUSTRIAL TRAINING MODULE

S.NO.	Module Code	Name of the Module	Techniques	Duration in Days
1	ABST-001	Basic molecular biology techniques	Various culture stock preparation and its revival DNA isolation from various sources Agarose Gel Electrophoresis Isolation of RNA and agarose gel electrophoresis (optional) Restriction and digestion SDS page (optional) Qualitative and Quantitative analysis of nucleic acid and proteins	5 Days 1/2 1 1/2 1 1/2
2	ABST-002	Mid level	Restriction and digestion of DNA and plasmid Ligation of DNA and plasmid DNA methylation Polymerase chain reaction DNA finger printing RNA purification Reverse transcriptase PCR mRNA purification A tailing of nucleic acid Quantitative and Qualitative analysis	5 Days
3	ABST-003	Advance level 1	Restriction and digestion of plasmids/phagemids Ligation of plasmids/phagemids Constructed recombinant DNA and its screening Competent cell preparation rDNA transformation and its screening	5 Days
4	ABST-004	Advance level 2	Nucleic acid (DNA and RNA) extraction from different sources-on overview Fundamentals of PCR techniques and its scopes Short PCR Long PCR Hotshot PCR Multiplex PCR (optional) Nested PCR (optional) RT PCR optional Analysis of PCR products upon agarose gel electrophoresis Gel DOC system	7 Days

6	ABST-006	Transcriptomics	Purification of PCR products Gel extraction of PCR products Isolation of total RNA Isolation of mRNA Poly A adenylation (poly A tailing) of nucleic acids Purification of mRNA by column method Agarose gel electrophoresis of RNA Gel extraction of RNA RT PCR Gel DOC system	5 Days
7	ABST-007	Transmetabolomics basic level	Isolation of chloroplast DNA Isolation of mitochondrial DNA Gel analysis by Gel DOC system Competent cell preparation Bacterial transformation Bacterial transduction Bacterial transfection Bacterial coniugation Phage titration Gel analysis by gel DOC system Genomic mapping	3 Days
8	ABST-008	Basic of Genetics	Fundamental o blotting techniques and its scope Southern blotting and hybridization Northern blotting and hybridization Western blotting	7 Days
9	ABST-009	Blotting techniques	Chromatography techniques Paper chromatography Thin layer chromatography Ion exchange chromatography Affinity chromatography Gel preparation chromatography Column chromatography	5 Days
10	ABST-010	Chromatography techniques	Essential of DNA modification and its scope DNA methylation Restriction and digestion DNA phosphorylation DNA ligation Gel analysis by gel doc system Concept of mutation and its application	5 Days
11	ABST-0011	DNA modification system	DNA mutation	3 Days
12	ABST-0012	DNA mutation		7 Days

			Isolation of spontaneous mutant 1.Gradient plate method 2.Replica plating method Mutagenesis 1.Chemical mutation 2. Physical mutation	
13	ABST-013	Immunodiffusion Techniques	Site directed mutagenesis ODD Titration SRID Counter Current Immunoelectrophoresis Rocket Immunoelectrophoresis Immunoelectrophoresis	4 Days
14	ABST-014	ELISA Techniques	DOT ELISA Antigen Capture ELISA Antibody Capture ELISA Sandwich Elisa Competitive ELISA Isolation & Identification of Bacteria Pure Culture Techniques Staining Techniques Biochemical Characterization	3 Days
15	ABST-015	Microbial Techniques	Callus Induction Auxilliary Bud Induction Shoot Induction Root Induction Isolation of Cells Media Preparation Culture Initiation Passaging of cell lines Observation of Cell cell viability assav	5 Days (breaks in between) week end program
16	ABST-016			
17	ABST-017	Animal Tissue Culture		week end program 5 days (breaks in between)

**Note:**

The cost of the projects / modules varies according to the title you have selected.  
Training Center @

**Chennai:** 9976903682, 7299953878.  
**Coimbatore:** 87780 76298, 7299953878.

**REGISTRATION:** Applicant can either register online at [www.abbesbiotech.com](http://www.abbesbiotech.com) or in person.