

யுரக்ட் அரதுவம்! **GO TRADITIONAL!**

ARMATS BIOTEK
TRAINING AND RESEARCH INSTITUTE CHENNAI (ABTRI)
(UNIT OF ARMATS BIOTEK PVT. LTD.)

ORGANICS INDUSTRY ORGANISATION WITH CENTRE FOR RESEARCH

RECENT ACHIEVEMENTS (2015)

- Successfully isolated single crystal with antidiabetic potential from herbal plant (IPR under progress).
- Armats R&D unit has been sanctioned funding of INR 9L from JANSTA.
- Armats Students and faculty have participated in several international conferences and won cash prizes worth INR 50,000/-
- Successfully completed 2 days one credit workshop on "Phytochemistry formulation of Natural Bioproducts" at KSR College of Technology, Tiruchengode.

MAJOR PROJECTS & INTERNSHIP TRAINING

- Industrial microbial enzyme scale-up
- Advanced nano bio actives
- Industrial bio-degradation technology
- Biofertilizer Production and formulation technology
- Discovery of novel therapeutic drugs from Herbs
- Discovery of potent drugs from Marine Microbes
- Organic Food Microbiology
- Organic Food Biochemistry and adulteration
- Industrial Environmental biotechnology
- Industrial Microbial eco-green by products
- Bio-molecular separation techniques
- Bio-pigments production from lichens & microbes
- Industrial bio reactor designing technology
- Organic cosmetic formulation technology
- Therapeutic protein scale up and purification technology

ARMATS PATENTS - 7

ARMATS PUBLICATIONS (Till Oct. 2015)

- International journals: 50
- National journals: 15
- Conferences/Seminar: 16

ARMATS PRODUCTS

- Organic AGR product: 5
- Organic Food: 5

ARMATS RESEARCH TEAM

- Faculty with Ph. D.: 3
- Visiting faculty with Ph. D.: 3
- Faculty with M. Sc.: 3
- Faculty with M. Tech.: 3

ARMATS INFRASTRUCTURE

- Well-structured and spacious laboratory with sophisticated instrumentation for bioanalytical and bio research facilities.
- GLP Lab practice
- 3000 sqft lab + 1000 sqft for students amenities
- High-speed broadband internet Wi-Fi connection 24/7
- Career counseling service for students aiming for higher studies and overseas job.
- Affordable Fee structure and student friendly ambience.
- Flexible timing for research scholars.
- Bio analytical service for part time Ph.D., Research Scholars and Professors.

ARMATS INSTITUTIONAL MOU

- SSN College of Engineering & Technology
- AMET University
- ANIT University
- Karpaga Vinayaga college of Engineering and Technology
- SJ Joseph's College of Engineering
- Sree Sastha Institute of Engineering and Technology
- Acural Engineering College
- Bharat Institute of Technology
- KS Rangasamy College of Technology

ARMATS SERVICES

- Job oriented fast track training, final year projects with complete technical guidance till publication & IPR
- DNA / Proteins Sequencing, Primer Synthesis and Design
- GCMS / FTIR / LCMS / HPLC / MS / IAA/Bi Bioanalytical services
- Call-line Studies for Anticancer and Inflammatory Anti diabetic pathway studies and all types of cell signalling studies
- Protein Purification and Downstream Processing
- Compound Purification, Characterization crystallisation for Metabolites components
- Molecular Characterization of Herbs by HPLC & Gene analysis & expression
- Anti cancer/anti Diabetic Bioactive Metabolites from Herbal plants / Microbes

ARMATS MISSION
Serve Humanity through science

ARMATS BIOTEK
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Registration Fees Rs. 500/-
DD in favour of ARMATS BIOTEK PVT. LTD., (Payable at Chennai)

We offer short term internship training / major projects / Bioanalytical services for B.Tech., M.Tech., M.Sc., M.Phil., M.Pharm., MBBS, MDS, and Ph.D., Researchers in Biotechnology, Food & Nutrition Biotech, Biochemistry and Microbiology, Bioinformatics & Life Sciences

ARMATS BIOTEK TRAINING AND RESEARCH INSTITUTE (ABTRI)
(A Unit of Armats Biotek Pvt Ltd.,)

Accuracy matters. Always.

Armats Biotek Pvt Ltd., provides the best-in-class analytical services for Research scholars, Scientists and Project students for whom **Accuracy matters!!!**

Services Offered

- Bioactivity of metabolites
- Biochemical characterization of bacteria
- Qualitative and Quantitative assays
- Protein purification and downstream processing
- Cell line studies
- Molecular techniques
- DNA / Protein sequencing, Primer Synthesis and Design
- Compound purification and characterization

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Bioactivity of metabolites

1. Extraction of metabolites from plant material
2. Antimicrobial activity test - Bacteria
3. Antimicrobial activity test – Fungi
4. Phytochemical analysis
5. Antioxidant activity test – DPPH assay
6. Antidiabetic activity test

Biochemical characterization of bacteria

1. IMViC test
2. Gram staining
3. Endospore staining
4. Oxidase test
5. Catalase test
6. Motility test
7. Carbohydrate utilization test

Qualitative and Quantitative assays

1. Protein estimation (Bradford method)
2. Carbohydrate estimation (DNS Method)
3. Total phenols (Folin-Ciocalteu method)
4. Total Flavonoids (Aluminium chloride method)
5. Total tannins
6. Total Alkaloids (Harborne method)

Protein purification & downstream processing

1. Protein Precipitation (Salt)
2. Salting out (Dialysis)
3. Protein profiling (SDS PAGE)
4. Enzyme screening (Plate assay)
5. Native PAGE
6. Column chromatography

Cell line studies

1. Cancer cell lines – cytotoxicity assay
2. Diabetes cell lines - cytotoxicity assay

Molecular techniques

1. Zymography
2. Western Blot
3. Isolation and Purification of Plasmid DNA and Genomic DNA

DNA / Protein sequencing, Primer Synthesis and Design

1. DNA profiling (AGE)
2. DNA Fingerprinting (RAPD, PCR-RFLP, AFLP)
3. PCR, Reverse Transcriptase PCR (RT-PCR)
4. Sequencing of 16S rRNA gene (Bacteria, Actinomycetes, Mitochondrial and Plastids)
5. Total RNA Isolation and cDNA Synthesis
6. Primer Designing and Synthesis
7. DNA Barcoding (Animals, insects Plant, Fungi)
8. Gene Cloning and Sequencing
9. Gene Cloning, Protein Expression and Purification in E.coli
10. Gene Expression Analysis by real time PCR
11. Full length cDNA cloning

Compound purification & characterization

1. XRD
2. FTIR
3. SEM
4. AFM
5. GCMs
6. HPLC

We offer projects / internship / short-term training for B.E., B.Tech., M.Tech., M. Sc., M. Phil., and Ph.D in Biotechnology, Molecular Biology, Biochemistry, microbiology, Plant science and Bioinformatics

ARMATS BIOTEK TRAINING AND RESEARCH INSTITUTE (ABTRI)
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Intensive one day Workshop on.....

Chromatography Techniques

10:00a.m – 4:00p.m

We bring to you an intensive fast-track (1day) workshop on the techniques of chromatography that includes,

- Extraction of alkaloids, phenols and flavonoids
- Thin layer chromatography
- Column Chromatography
- Dot-plot assay for DPPH radical scavenging assay

Nobody teaches you the basic nuances and minute tricks like we do!!!

Registration Details: On-spot registration, INR.1000/- per individual, 10% discount for batch of more than 10 students. Registration includes registration kit and certificate.

All you have to do is save the date and just drop yourself in at....

Armats Biotek Pvt Ltd., 14/18c, II floor, Mettu Street, Link road, Maduvankarai, Guindy, Chennai 600 032; Ph: 044 43502783; +91 9789010039

All in a Days Work

ARMATS BIOTEK TRAINING AND RESEARCH INSTITUTE (ABTRI)
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Armats Biotek Pvt Ltd., provides the best-in-class industry – certified training program for students, research scholars and Scientists!!!

Intensive hands-on Summer Training program 2015

1. **Natural Product Chemistry (5-10 days)**
Extraction of herbal bioactives – Anticancer– Antidiabetic – phytochemical screening – TLC
Antioxidant – Antibiotic – Characterization (Demo)
2. **Isolation and Characterization of Bioactive Metabolites (15-30 days)**
Extraction of phytochemicals - Phenols – Tannins – Alkaloids – Flavonoids – Essential oils – Column chromatography
Precipitation techniques – Cassette membrane Dialysis – SDS PAGE – SNS – Column chromatography (Demo)
3. **Food Microbiology (5 - 10days)**
Isolation of food pathogens – Biochemical characterization – control of food pathogens – Edible packaging techniques
4. **Industrial Enzyme Technology (5 days)**
Screening of microbes for industrial enzymes – Protease – Amylase – Tannase – Cellulase – Production and quantification of enzymes
5. **Downstream Processing of Industrial Enzymes (10 – 15days)**
6. **Production and Characterization of Microbial Secondary Metabolites (10 days)**
Production of antibiotics – Production of IAA – Extraction - partial purification – bioassay – MDR – MRSA
7. **Molecular Characterization of Bacterial Isolates (Min 10 students – 15 days)**
Isolation of bacterial DNA – AGE – primer designing and PCR – BLAST – Phylogenetic tree construction – Identification of Bacterial species
8. **Herbal Nanotechnology(15 days)**
Silver Nanoparticles – Recovery of nanoparticles –

Registration Details

- DD (for registration fee 500/-) in favour of "Armats Biotek Pvt Ltd", payable at Chennai to be sent along with the duly filled registration form through post / courier
- Registration can also be done in-person

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