

In the name of Allah, the Most Beneficent, the Most Merciful

ISLAMIAH COLLEGE (AUTONOMOUS)

Accredited by NAAC (3rd Cycle) with 'A++' Grade

Affiliated to Thiruvalluvar University

Govt. Aided Minority Institution Recognized under section 2(f) & 12(B) of UGC Act, 1956

NEW TOWN, VANIYAMBADI - 635 752 (Tirupattur District)
(Maintained & Managed by The Vaniyambadi Muslim Educational Society)



On the eve of National Science Day Celebration

National Seminar

on

BIOTECHNOLOGY: BENCH TO BUSINESS

27th February 2025



**ORGANIZED BY
DEPARTMENT OF BIOTECHNOLOGY
ISLAMIAH COLLEGE (AUTONOMOUS)**

Collaborating Partner

B.S. Abdur Rahman



Crescent
Institute of Science & Technology

Deemed to be University u/s 3 of the UGC Act, 1956
GST Road, Vandalur, Chennai 600 048





INVITATION

The Department of Biotechnology, Islamiah College (Autonomous) cordially invites students, aspiring young researchers, leading academic scientists and industrial professionals to exchange and share the most exciting developments in Biotechnology and Bioentrepreneurship at the National Seminar on "Biotechnology: Bench to Business" on Thursday 27th February 2025. It is envisaged to provide a unique platform for participants from academic institutions and industries to interact and explore recent innovations, commercialization strategies, and entrepreneurial opportunities in Biotechnology. The event will feature expert talks, a poster presentation competition, and a quiz celebrating National Science Day, offer a dynamic environment for knowledge exchange, networking, and interdisciplinary collaboration.

SCOPE OF THE SEMINAR

This seminar will highlight recent advancements in biotechnology and their real-world applications while providing insights into Bioentrepreneurship, including business models, funding opportunities, and market strategies. It will explore biotech innovations in healthcare, agriculture, and environmental sustainability and discuss the role of intellectual property rights, regulatory policies, and industry collaborations in biotechnology commercialization. Additionally, the seminar will offer a platform for poster presentations, allowing participants to showcase their research and innovative ideas, and engage students and professionals in a quiz competition, celebrating National Science Day and fostering interdisciplinary learning.

ISLAMIAH COLLEGE (AUTONOMOUS)

Islamiah College (Autonomous), Vaniyambadi maintained and managed by Vaniyambadi Muslim Educational Society started its humble beginning in 1919 and has transformed into a prominent postgraduate and research institution, dedicated to meeting the educational needs of rural communities. Affiliated with Thiruvalluvar University since 2002, the college has received an extension of Autonomy from the UGC for a decade (from **2022-23 to 2031-32**), affirming its commitment to quality academic governance. In recognition of its high standards in education and research, the NAAC has accredited the college with prestigious "A++" grade, with a commendable CGPA of 3.55 out of 4 in the 3rd cycle of assessment for seven years from March 21, 2024, to March 20, 2031. With 16 diverse academic departments spanning Science, Arts, Commerce, and research disciplines, the College aims to instill in both teachers and students the values necessary for fostering a "good life" in society. We are proud to play a vital role in positioning Vaniyambadi on the educational map of India.

B2B - 2025

NATIONAL SEMINAR ON BIOTECHNOLOGY: BENCH TO BUSINESS
27TH FEBRUARY 2025



DEPARTMENT OF BIOTECHNOLOGY

Department of Biotechnology is one of the youngest, vibrant and radiant departments of Islamiah College established in the year 2006, with an aim to endow the students with extraordinary skills to solve the growing challenges in modern biology, to meet up the industrial needs technically in the field of biotechnology and making the students not just job seekers but also job creators. The Department offers a full time Under Graduate (B.Sc.), Post Graduate (M.Sc.) and research (M.Phil and Ph.D) Programmes in Biotechnology.

Supported with dynamic and focused curriculum, well-trained biotechnologists are raised to suit academia/industry/research perspectives. The Department also focuses on inculcating ethical and moral values in the students. The students not only excel in academics, they are also facilitated for their 360 degree development.

A rich faculty resource, each holding Doctoral Degree with diverse skill sets, are engaged in intensive research with research scholars and students of both PG and UG Programmes. Faculty members are also guiding Research scholars for the Ph. D Programme. Their dedicated efforts have resulted in more than 200 publications in National and International journals of high repute with cumulative 'h' index of 30 (Scopus), 25 (WoS) and 40 (Google Scholar) and citations of 715 (Scopus), 552 (WoS) and 1270 (Google Scholar).

To ensure quality student products, workshops/ seminars/ conferences/hands on training are organized regularly to disseminate developments in the discipline of Biotechnology. Post Graduate Students are encouraged to pursue research projects in the domain of their interest, present their work in seminars/ conferences and/or publish their work in scientific journals. This inculcates scientific temperament in students and fosters critical thinking.

BIOTECHNOLOGY: BENCH TO BUSINESS

Biotechnology has emerged as a key driver of innovation, bridging scientific research and commercial applications across various industries. From healthcare and agriculture to environmental sustainability and industrial solutions, biotechnology offers vast opportunities for research translation and entrepreneurship. However, turning scientific discoveries into successful businesses requires a multidisciplinary approach, integrating expertise from biotechnology, business management, finance, computing, and other fields.

In this context, the Department of Biotechnology celebrates National Science Day with a National Seminar on **“Biotechnology: Bench to Business – B2B”** to bridge the gap between scientific innovation and entrepreneurial success. This event offers unique insights into the world of bioentrepreneurship for all, opening doors to exciting career opportunities beyond traditional lab roles, inspiring them to think creatively about how scientific discoveries can be transformed into marketable solutions. This will impart valuable knowledge making them translate their research into viable business ventures, learning about intellectual property, funding, and the commercialization process. It is a roadmap to navigate the journey from discovery to market, offering practical advice on protecting innovations, securing funding, and building collaborations. This seminar will equip you with the knowledge and connections to turn ideas into impact.





THEME OF THE SEMINAR

- ✓ Translating Biotechnology Research into Commercial Products
- ✓ Phytochemical Screening and Bioactive Compound Discovery
- ✓ Antimicrobial Potential of Natural and Synthetic Compounds
- ✓ Herbal Biotechnology: Advancements in Plant-Based Medicine
- ✓ Medicinal Plants and Their Role in Drug Discovery
- ✓ Molecular Docking and Drug Design: A Computational Approach
- ✓ Microbial Biotechnology for Industrial and Medical Applications
- ✓ Bioprospecting for Novel Therapeutics
- ✓ Synthetic Biology & Genetic Engineering for Entrepreneurship
- ✓ Nanobiotechnology for Drug Delivery and Diagnostics
- ✓ Functional Foods and Nutraceuticals: Bridging Science and Business
- ✓ Bioinformatics & AI in Biotech Startups
- ✓ Biotech Product Development: From Lab to Market
- ✓ Branding and Marketing Strategies for Biotech Companies
- ✓ Business Models for Biotech Startups
- ✓ Role of Artificial Intelligence and Big Data in Biotech Business
- ✓ Investment Trends and Venture Capital in Biotechnology

CALL FOR POSTER

Prospective participants can present their research works or ideas as a poster presentation by choosing from the following themes. They shall follow the dimensions of 841 mm × 1189 mm or 36 × 48 inches, preferably in portrait orientation. However, the presentation format is not constrained, allowing flexibility in content and design. It should include clear sections such as Title, Author(s) with Affiliation, Introduction, Methodology, Results, Discussion, Conclusion, and References (if applicable).

AWARDS

To enhance readability, presenters should use clear headings, bullet points, and visuals such as graphs, tables, or images. Posters may be presented as an Individual or a group of maximum of four students.

Poster Presentations will be adjudicated by the jury and THREE Best Presentations under each category (UG/PG Student, Research Scholar) will be awarded during the valedictory function.

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REGISTRATION

All the participants can register for the Seminar by filling the details in the Registration Form (given below) and paying the applicable fee along with the filled application at least two days before the Seminar. Seminar Kit, Working Lunch, and Refreshments will be provided to the participants. Participation Certificates will be provided to all the participants.

Registration Form

Name :

Class/Designation:

Department :

Institution :

Address :

Email :

Mobile :

Participation : Poster presentation/Participation only

Title of the Poster:

Signature :

REGISTRATION FEE

Registration Fee: ₹ 200/-

Nature of Participant: UG/PG Students, Research Scholars, Faculty, Scientists, Industry Professional.



ONLINE CONTEST

An online quiz contest will be conducted as part of the seminar on the eve of National Science Day Celebrations, providing participants with an opportunity to showcase their knowledge across various scientific disciplines. It will cover topics related to biotechnology, life sciences, and general scientific advancements. The quiz aims to foster interdisciplinary learning and scientific curiosity. The top THREE scorers will be awarded prizes with certificates in recognition of their achievement.

PLENARY SPEAKERS

Dr. Ashok Kumar. P

Associate Professor,
Department of Life Sciences,
B.S. Abdur Rahman Crescent Institute of
Science & Technology,
Chennai,
TAMILNADU.



Dr. Balakumaran. P. A

Senior Scientist,
CSIR - National Institute for Interdisciplinary
Science and Technology (NIIST),
Thiruvananthapuram,
KERALA.



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ORGANIZING COMMITTEE

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Mr. M. Mohammed Zeeshan

Assistant Professor
Department of Biotechnology
Islamiah College (Autonomous)



STUDENT SECRETARIES

Mohammed Althaf
II. M.Sc. Biotechnology

K. Mohammed Saihan
III. B.Sc. Biotechnology



PREVIOUS SEMINAR/WORKSHOP



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