



3 - 5 April, 2025

National
Conference cum Workshop

Recent Computing Trends for Bioinformatics and Biotechnology



Hybrid
Mode

(ONLINE / OFFLINE)

Themes

Big Data,
AI and Cloud Computing in
Genomics and Proteomics:
Transforming Biotechnology

Venue : **Vignan's Foundation for Science, Technology and Research**
(Deemed to be University), Vadlamudi, Guntur-522 213. A.P.



VIGNAN'S

FOUNDATION FOR SCIENCE, TECHNOLOGY & RESEARCH

(Deemed to be University) - Estd. u/s 3 of UGC Act 1956

NAAC
GRADE **A+**

NIRF
RANK **72nd**

ABET
ACCREDITED

NBA
ACCREDITED

Organized by

Department of Biotechnology, Department of Bioinformatics
and Department of CSE & ACSE

School of Biotechnology & Pharmaceutical Sciences | School of Computing and Informatics

Our Sponsors



About the University

The University was established in the year 2009 and is accredited by NAAC as “A+”. VFSTR gives top priority to academic excellence with a social responsibility. This has been made possible under the dynamic leadership of honorable Chairman Dr. Lavu Rathaiah and Vice-Chairman Sri Lavu Srikrishna Devarayalu. The University is driven by values, ethics, and a dedicated team of professionals. With a greater emphasis on innovation, research, skill development and entrepreneurship, the University has entered an exciting phase and is shouldering greater responsibilities in imparting technical skill development, in keeping with our honourable Prime Minister’s vision of “Skill India, Make in India and Digital India”.

About the Department

The Department of Biotechnology was established in the year 2006. It was accredited by NBA in the year 2020. The Department is well established with CoE, animal cell culture facility, bioprocessing lab, plant tissue culture lab, bioinformatics lab, animal house, clean room, and biogas plant, with an ample strength of students and faculty. The Department has been supported by VFSTR, DSTFIST and has attracted more than 10 external research projects. The Department offers B.Tech (Biotechnology and Bioinformatics), M.Tech. (Biotechnology) and Ph.D. programs.

About the Bio Cloud 2025

The BioCloud 2025 is a premier platform to discuss cutting-edge advancements in biotechnology with a focus on Big Data and Cloud Computing. This interdisciplinary conference will emphasize applications in genomics, drug discovery, plant genomics, agrigenomics, and pharmaceutical research. Experts from academia, research, and industry will explore emerging technologies, challenges, and innovations in these domains.

All Abstracts will be published in conference souvenir with ISBN. Selected Abstracts will be intimated for full length paper submission in Scopus indexed journals. Young Scientist award for oral presentations (For faculty/Post Doc/ Ph.D. Scholar/Scientist). Cash Prizes for best poster presentations(UG/PG).

Special Features

The BioCloud 2025 is a premier platform to discuss cutting-edge advancements in biotechnology with a focus on Big Data and Cloud Computing. This interdisciplinary conference will emphasize applications in genomics, drug discovery, plant genomics, agrigenomics, and pharmaceutical research. Experts from academia, research, and industry will explore emerging technologies, challenges, and innovations in these domains.

Conference Themes

- | |
|---|
| • Big Data and Cloud Computing in Genomics. |
| • AI in Drug Discovery and Pharmaceutical Applications. |
| • Plant Genomics and Agrigenomics. |
| • Innovations in Biotechnology. |
| • Genomics-driven crop improvement and trait selection. |
| • AI in plant-pathogen interaction studies. |
| • Integration of bioinformatics in synthetic biology and bioprocessing. |
| • Applications of genomics in disease biomarker discovery. |
| • Genomics and Environmental Sustainability. |
| • Translational Bioinformatics |
| • Precision Vaccine for Cancer |
| • Medical Informatics |
| • Cloud Computing for Enviromental Agriculture |
| • Data Mining in Medicine |
| • Big Data Applications and Analytics |
| • Intelligent and Bio-inspired Computing |
| • Artificial Intelligence in Cloud Computing |
| • Internet of Things (IoT) in healthcare |
| • Cloud Computing |
| • Cloud Storage |
| • Cloud Security and Privacy |
| • Legacy Systems Migration |
| • Big Data Processing/Mining/Query on Cloud |
| • Big Data Analysis Architectures |
| • Intelligent Data Processing |
| • Big Data and Deep Learning |
| • Big Data and High Performance Computing |
| • Cloud-based Machine/Deep Learning |
| • Cloud and Big Data for the Internet of Things |
| • Machine/Deep Learning |

1. Keynote Talks

Gain insights from leaders and innovators in genomics, bioinformatics, and cloud computing.

2. Workshops

- **Title :** Development of Next Flow Pipeline: A Hands-On Workshop
- Topics include cloud-based NGS data analysis, variant annotation, and AI integration.
- Practical demo sessions led by experts from BaseSolve.

3. Live Demonstrations

Explore advanced tools for genomic data analysis and management.

4. Panel Discussions

Deliberate on the future of cloud computing and big data in genomics and proteomics with industry leaders.

5. Student, Research Scholars & Faculty Awards:

Best Oral Presentation	₹ 2,500/- (Each Category)
Best Poster Presentation	₹ 1,500/- (Each Category)

6. Abstract Submission:

Selected abstracts will be published in the Conference Souvenir with an ISBN, and a few will be invited to submit full-length papers to Scopus-indexed journals.

Benefits

- Connect with experts from academia, research, and industry.
- Gain hands-on experience in genomics data analysis using cloud platforms.
- Showcase your research through oral and poster presentations.
- Explore internship and collaboration opportunities.
- Explore your abilities and your strength where you can get it.

Mode: HYBRID (Online / Offline)



Registration Link: <https://forms.gle/aHeEdxcEWC4vD53T6>



Registration Details

(Conference + Workshop)	
Academia / Faculty	₹ 1,000/-
Research Scholars	₹ 500/-
Students (UG / PG)	₹ 300/-

How to Apply:

Interested candidates can apply online by clicking below link

<https://forms.gle/aHeEdxcEWC4vD53T6>

Participants details need to be filled and payment details uploaded by using above link in Google Form on or before **25th March, 2025**.

PAYMENT DETAILS

A/C No	0195009300027226
IFSC	PUNB0019500
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Branch	Guntur

(Please upload the payment screenshot along with UTR details during registration)

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MERCHANT:

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TECHNOLOGY AND RESEARCH

Abstract (200 - 300 words) must be in **MS Word Format** only and submit through **Google Form** only

SPEAKERS



Dr. Gitanjali Yadav
Staff Scientist VI
National Institute of Plant
Genome Research



Prof. Asim Bikas Das
Associate Professor,
Department of Biotechnology,
NIT Warangal.



Dr. Aditya Narayan Sarangi
Senior Scientist,
BaseSolve Informatics
Pvt. Ltd.



Dr. Nanda Kumar Yellapu
Scientist C,
ICMR Vector Control
Research Center



Dr. Benet Dhas
Chief Executive Officer,
30M Genomics
Pvt. Ltd.



Dr. Kshitij Jadhav
Koita Centre for Digital
Health, IIT Bombay



Dr. Dibyabhabha Pradhan
Scientist (II), All India
Institute of Medical sciences,
New Delhi.



Dr. Sujan Mamidi
Senior Scientist, (Computational
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Biotechnology, Huntsville, USA



Dr. Prithish Varadwaj
Professor,
IIIT Allahabad.



Dr. Ashwin Dalal
Head, Diagnostics Division,
Centre for DNA Fingerprinting
and Diagnostics.



Dr. Anupam J Das
Co-Founder & COO
BaseSolve Informatics
Pvt. Ltd.



Dr. Paruchuri Anoosha
Senior Scientist,
The Ohio State University,
USA.



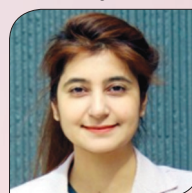
Dr. Viswajit Mulpuru
Scientist, Ipsity



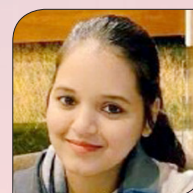
Dr. Kalyani Dhusia
Assistant Staff Scientist,
UAMS - University of Arkansas
Medical Sciences, USA.



Dr. Sameer Hassan
Bioinformatician
OlsAro, Sweden



Dr. Yasha Nazir
Bioinformatics Analyst,
Frederick National Laboratory
for Cancer Research.



Ms. Krishna Priya Kota
Bioinformatics Domain
Professional,
Tata Consultancy Services



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