VIGNAN’S FOUNDATION FOR SCIENCE, TECHNOLOGY & RESEARCH (VFSTR)

The University was established in the year 2009 and is accredited by NAAC as ‘A’. The University gives top priority to academic excellence with social responsibility. This has been made possible under the dynamic leadership of honorable Chairman Dr. Lavu Ratniah, and Vice-Chairman Shri. Lavu Sri Krishna Devarayalu, Member of Parliament. 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 honorable Prime Minister's vision of "Skill India, Make in India and Digital India".

ABOUT THE DEPARTMENT OF BIOTECHNOLOGY

The Department of Biotechnology at VFSTR was established in the year 2006. It was accredited by NBA in the year 2020. There are 24 doctorates among its faculty members. It supports the extension activities such as rural development by promoting the cultivation of medicinal plants to the local farmers, especially among women. The Department is very 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 (600) and faculty. The Department has been supported by VFSTR, DST-FIST, and has attracted more than 10 external research projects to the tune of Rs. 3.5 crores. The Department offers B.Tech (Biotechnology and Bioinformatics), B.Tech. (Hons), M.Tech and Ph.D. Programs. Both B.Tech and M.Tech students undergo industrial internships, either in India or abroad. Every academic year, 20% of the students go for higher studies abroad, while 10% of the students prefer higher education in India, and the remaining 60% students get placements in various firms.

ABOUT THE SYMPOSIUM

The international symposium on bioinformatics (InSyB) is a flagship symposium of the Asia-Pacific Bioinformatics Network (APBioNet). This event is the fourth in the series, for the first time virtually, given the current pandemic situation. The last three InSyBs were held in Indonesia (2017), Malaysia (2018), and India (Punjab). Although this is the second time InSyB is being held in India, this time, it is being held in the southern parts of the country. InSyB as a symposium is targeted to the student group and younger researchers. The theme of InSyB 2020 “Bioinformatics for Disease Therapeutics” covers the whole spectrum of disease therapeutics, especially viral diseases like COVID-19, utilizing the tools of Bioinformatics and Omics. The prime aim of the symposium is to bring researchers, pharmaceutists, academics and industrial practitioners onto a single platform who can help in stimulating discussions and academic excellence. More than 10 experts in the field of bioinformatics have been invited from India and abroad (Australia, Japan, Singapore, Chile), who will deliver keynote/plenary talks on selected domains, entailing various aspects of disease therapeutics using various bioinformatics tools. We hope the participants will immensely benefit from attending the InSyB 2020.
Keynote Speakers

**Prof. Kenta Nakai**
(Keynote Speaker on 21st Dec, 2020)
Professor, Human Genome Center, The Institute of Medical Science, The University of Tokyo, Japan
*Topic:* Using Various Kinds of NGS Data for Understanding Cell Type Specific Regulation of Gene Expression

**Prof. G. P. S. Raghava**
(Keynote Speaker on 22nd Dec, 2020)
Professor & Head, Department of Computational Biology, Indraprastha Institute of Information Technology (IIIT-Delhi), New Delhi, India
*Former Chief Scientist, CSIR-Institute of Microbial Technology, Chandigarh*
*Topic:* Computer-Aided Immunotheraphy to Fight Against Emerging Pathogens

**Prof. G. Narahari Sastry**
Director, CSIR-North East Institute of Science and Technology, Jorhat, Assam, India
*Topic:* Understanding Relationships between Infection and Immunity: Role of Modelling and Informatics

**Prof. Bruno Gaeta**
Senior Lecturer and Director of Studies, Bioinformatics Engineering, School of Computer Science and Engineering, UNSW Australia
*Topic:* Bioinformatics to Study a Range of Aspects of Immune Function

**Dr. Adaiakalavan Ramasamy**
Sr. Research Scientist, Genome Institute of Singapore, A*STAR, Singapore
*Topic:* "Genome beyond a 4-letter sequence: emerging roles for local and global DNA shapes"

**Prof. Mohammad Asif Khan**
President, ABioNet; Associate Professor & Dean, School of Data Sciences, Perdana University, Malaysia
*Topic:* Mapping the Minimal Set of the Viral Peptidome

**Dr. Prashanth N Suravajhala**
Sr. Scientist, Systems Biology, Department of Biotechnology and Bioinformatics, Birla Institute of Scientific Research, Jaipur-302001, Rajasthan, India
*Topic:* Systems Genomics of Prostate Cancer: Indian Perspective

**Dr. Tikam Chand Dakal**
Asst. Professor, Department of Biotechnology, Mohanlal Sukhadia University, Rajasthan, India
*Topic:* Bioinformatics analyses of SARS-CoV-2 Spike Protein: Steps Towards Designing COVID-19 Therapeutics

**Dr. Aparna Banerjee**
Asst. Professor, Universidad Catolica del Maule, Talca, Chile
*Topic:* Genomic and Molecular Characterization of a Unique, Avirulent Variant of Bacillus Anthracis from Hot Spring

**Dr. Sugunakar Vuree**
Asst. Professor, Department of Biotechnology, School of Bioengineering and Biosciences, Lovely Professional University, Punjab, India
*Topic:* Envisioning the Role of Cancer Biomarkers Through the Intervention of Bioinformatics

**Dr. Dr. Prashanth N Suravajhala**
Sr. Scientist, Systems Biology, Department of Biotechnology and Bioinformatics, Birla Institute of Scientific Research, Jaipur-302001, Rajasthan, India
*Topic:* Systems Genomics of Prostate Cancer: Indian Perspective

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  Dean-Planning and Monitoring, Head & Professor, Dept. of Biotechnology, VFSTR

**CONVENOR**
- Dr. N. Janai
  Associate Professor
  Dept. of Biotechnology, VFSTR
  E-mail: jalajaravula@gmail.com

**CO-CONVENOR**
- Dr. S. Anil Kumar
  Associate Professor
  Dept. of Biotechnology, VFSTR
  E-mail: anilkumarou@gmail.com

**ORGANIZING SECRETARY**
- Dr. A. Ranga Rao
  Associate Professor
  Dept. of Biotechnology, VFSTR
  E-mail: arangarao99@gmail.com

**COORDINATOR**
- Prof. P. B. Kavi Kishor, FNASc, FNAAS
  Scientific Advisor, Dept. of Biotechnology, VFSTR

**SCIENTIFIC PROGRAM COORDINATORS**
- Dr. K. Srinivasa, Assoc. Prof., Dept. of Biotechnology, VFSTR
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- Dr. Tarun Pai, Asst. Prof., Dept. of Biotechnology, VFSTR

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**REGISTRATION**
Free for Students, Research Scholars, Scientists, and Faculty members from the Universities, Institutions, Colleges and Industries in India & Abroad.

**REGISTRATION**
Registration opens on 25th November 2020 | Registration closes on 15th December 2020
https://docs.google.com/forms/d/e/1FAIpQLSvc2PygGFh18b7mD88Xpqcgn4z4F707yypOSScY9f4e04Y_Yag/viewform?usp=sf_link

**INSTRUCTIONS TO PARTICIPANTS**
Presentation will be held over a virtual platform, such as ZOOM. The ZOOM link will be provided to the registered participants. E-certificate will be issued for all the participants.

**VENUE**
NET working facility lab supported by the DST-FIST. Department of Biotechnology (NBA-Accredited). Vignan’s Foundation for Science, Technology and Research (Deemed to be University), Vaddamudi-522213, Guntur, Andhra Pradesh, India.