

INTERNATIONAL SEMINAR ON RECENT ADAVCNES IN EMERGING TECHNOLOGIES AND ITS IMPACT ON THE BIOLOGICAL SCIECNES

ISRAETBS-2019; 23-24 DECEMBER 2019

DEPARTMENT OF BIOTECHNOLOGY VIKRAMA SIMHAPURI UNIVERISTY, NELLORE-524 320, AP, INDIA

Prof. G. Vijaya Ananda Kumar Babu, Convenor

&

Dr. S.B. Sainath, Organizing Secretary

Ph (O): 0861-2352365 (Ext: 311)

M: +91-9989353455 or +91-8074489055

Email: <u>israetbs2019@gmail.com</u> <u>drsainathvsu@gmil.com</u>

To

The Bank Manager State Bank of India Kakutur Branch Nellore-524320

Sub: Request to sponsor/donate an amount of Rs. 25,000/- towards the International

Seminar organized by Dept. of Biotechnology, VSU, Nellore-524 320-reg.

It gives us immense pleasure to inform you that the Department of Biotechnology of Vikrama Simhapuri University will be going to organize an International Seminar on Recent Advances in Emerging Technologies and its Impact on Biological Sciences (ISRAETBS-2019) to be held from 23-24 December, 2019.

In this connection, I submit that the International seminar is one of the prestigious programmes of Vikrama Simhapuri University as a large number of eminent scientists are gracing the occasion. Moreover, press and public attention is one of the major aspects of this seminar, as this seminar In addition, as this is a platform to gather public involves 200 National and 50 International delegates are participating to discuss about recent trends in emerging technologies and their impact on biological sciences.

On behalf of organizing committee, I am herewith requesting you to sponsor or donate an amount of Rs. 25,000/- which will enable us to conduct this seminar in a fruitful manner. This seminar is of public importance as any technologies that address human diseases will also be covered. We will also provide publicity to Andhra Bank in the form of advertisement in the souvenir.

For your ready reference, I am herewith enclosing the brochure along with the delegates (international level).

Kindly consider and needful at the earliest Sir.

With best regards

Organizing Secretary
ISRAETBS - 2019
VIKRAMA SIMHAPURI UNIVERSITY
Nellor-524 320, AP India

International Seminar

Recent Advances in Emerging Technologies and its impact on the Biological Sciences INKAPTES 2019)

> Registration Form 23 & 24 December, 2019

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Dignature of the Applicant

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ORGANIZING COMMITTEE

Chief Patron Prof. R. SUDARSANA RAO

Hon'ble Vice-Chancellor, Vikrama Simbapuri Unversity, Nellore

Patron Prof. ANDE PRASAD

Registrar

Vikrama Simhapuri Unversity, Nellore

Convenor

Prof. G. VIJAYA ANANDA KUMAR BABU

Head? Department of Biotechnology

Organizing Secretary Dr. S.B. SAINATH

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Co-Convenors

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Joint Secretaries

Dr. C. Kiranmai, Assistant Professor

Dr. G. Mary Sandeepa, Assistant Professor

Dr. K.V.L. Shrikanya Rao, Assistant Professor

Registration Committee

Dr. G. Vidya Sagar Reddy, Academic Consultant

Address for Correspondence: Dr. S.B. SAINATH

Organizing Secretary Department of Biotechnology Vikrama Simhapuri University Nellore - 524 320. A.P. INDIA

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Sponsorship

ISREATBS solicits the assistance of Industries/ Government organizations to promote the conference by way of sponsorship

S&T exhibitions Equipment manufacturers, suppliers, service providers, Universities, Scientific Institutes, Industries can participate in the exhibition. The size of the Stalls are restricted to 6' X 9'.

For Details Contact

Organizing Secretary Email: Israetbs2019@gmail.com Mobile : 99893 53455

INTERNATIONAL SEMINAR

RECENT ADVANCES IN EMERGING TECHNOLOGIES AND ITS IMPACT ON THE BIOLOGICAL SCIENCES (ISRAETBS-2019)

23 & 24 December, 2019





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Department of Biotechnology Vikrama Simhapuri University Nellore-524 320 SPSR Nellare District Andhra Pradesh, India



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ABOUT THE UNIVERSITY

Vikrama Simhapuri University was established in the year 2008 at Nellore, AP, India. The University, came into being, by Act No.29 of 2008 enacted by the Legislature of State of Andhra Pradesh. The University is making its mark at the National and International levels in both academic and research outputs. The University presently, is offering twenty one Post Graduate Courses and two PG Diploma Courses. The courses are designed keeping in view of the scope for development and the resources available in the region. The University offering Ph.D. programmes in eleven disciplines, namely Biotechnology, Business Management, Chemistry, Commerce, Computer science, English, Economics, Marine Biology, Social Work, Physics and Zoology, A University can grow successfully only when research and teaching methods go hand-in-hand. To accomplish this task, Vikrama Simhapuri University provides an ecosystem to ensure the development of a collaborative environment conducive to learning, exposure to the best international practices and promotion of innovation and creativity.

ABOUT THE DEPARTMENT OF BIOTECHNOLOGY

The Department of Biotechnology came into existence in the year 2008 with a vision to provide high quality academic activities, interdisciplinary research activities and also facilitates a strong teaching base in biological sciences with an active collaboration of industries and health-care institutions. Department has highly-qualified, experienced team of faculty members specialised in thrust research areas viz. Animal and Plant Sciences, Aquaculture, Microbial and Industrial Biotechnology. The faculty members also published several research papers in reputed International journals. The department is offering two years M.Sc. course and also full time Ph.D Research Programme in the thrust research areas. At present 21 research scholars are working for their doctoral degree and five Ph.Ds were awarded so far. The research programs offered at the level of Masters are highly competitive and enjoy significant demand in biomedical and pharma sectors. Department of Biotechnology is also supported by DST-FIST, New Delhi and 10 research projects from various funding agencies such as DST, DBT, and NMPB etc. to the tune of Rs. 5 crores. To develop think-tank abilities among the students, research scholars and faculty members, the Department of Biotechnology is actively engaged in organizing various academic activities through Workshop/ Seminar/ Symposiums. The Department of Biotechnology also acts as an ecosystem dealing with the state of art technologies wherein scientists of international repute are invited to deliver lectures. It has also been instrumental in providing platform for discussion and debates on current and relevant scientific topics.

OBJECTIVES

The main aim of the Seminar is to gather leading scientists, clinicians, academicians, scholars and students from different disciplines who are engaged actively in various aspects of biotechnology under one umbrella to discuss and dissipate knowledge to the aspiring scientific community.

SCOPE OF THE SEMINAR

The great challenge and opportunity for biological science is to understand biological systems in all their complexity while preserving and exploiting biological systems in a sustainable fashion. The tools for dealing with this complexity will require the adaptation and application of emerging technologies. To achieve this goal, two strategies are required: a) identifying emerging technologies that can have an impact on biological research, and b) finding ways to develop and harness those technologies more efficiently through changes in the science infrastructure and support mechanisms. This Seminar provides an interdisciplinary forum for delegates engaged in the full spectrum of research, development, application and to discuss the current status of emerging technologies in Life Sciences and their allied Sciences. Themes have been selected to encompass wide range of topics to facilitate interdisciplinary interactions in academic fields and technology.



THEMES

Immunology Ethanobiology Stem cell research

Microbial Biotechnology Disease and Diagnostics Genomics and Proteomics

Nanotechnology and its applications
Toxicology and Environmental Health
Plant Biotechnology and Tissue culture

Agriculture Technology, Animal Sciences, Aquaculture, Biodiversity, Bioinformatics Applications, Biotechnology

ABSTRACT SUBMISSION

Abstracts should be in MS word format with Tims of New Roman, 12 font size and 1.5 space. Abstract should be limited to 300 words only. The abstracts should be sent through E-mail only (soft copy). A separate printed abstract along with the registration fee must reach the seminar Convener/Organizing Secretary before last date. The size of the poster should be 3 feet height X 3 feet width. Poster should be in one piece either in flexi or laminated sheet. Each oral presentation by the participants is restricted to 10 minutes only including discussion.

IMPORTANT DATES

Last date of abstract submission: 5th December, 2019
Date of acceptance: 10th December, 2019
Abstracts of scientific papers and the filled-in
Registration forms may be sent to
Email: israetbs2019@gmail.com

Best oral and Best Poster Awards for young Scientists below 35 Years

REGISTRATION FEE*

Delegates from industries Rs.1500/Indian delegates Rs.1000/Foreign delegates \$ 100
Students and Research Scholars
*Does not include accommodation

Accommodation: Based on request and advance payment

PAYMENT DETAILS

For demand draft: Registration fees should be sent in favor of The Organizing Secretary, ISRAETBS-2019 paybale at State Bank of India, Vikrama Simhapuri University Branch, Nellore-524320

Online Payment Details

Account Number : 38896397822 IFSC : SBIN0061280

Bank Branch : State Bank of India, VSU, Nellore

REGISTRATION

Registration opening date 25-10-2019 Registration closing date 10-12-2019

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Prof. G. Rajarami Reddy
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Vice Chancellor, Mizoram University
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Professor Emeritus, SVU, Tirupati
Prof. M. Srinivasulu Reddy
Vice Principal, SVU College of Science, Tirupati

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Faculty of Life Science Departments

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Dr. V. Sailaja, VSUPG Centre. Kavali





VIKRAMA SIMHAPURI UNIVERSITY::NELLORE-524 320 ANDHRA PRADESH, INDIA

International Seminar On

RECENT ADVANCES IN EMERGING TECHNOLOGIES AND ITS IMPACT ON BIOLOGICAL SCIECNES (ISRAETBS-2019)

DECEMBER 23-24, 2019

DAY-1: 23-12-2019

VENUE: Hotel RAMA ROYAL, OPP. GOVT. HOPSITAL, NELLORE

paratria to appropriate vegalo	23/12/2019
8.00 AM – 10.00 AM	Registration/Kits
10.00 AM – 11.20 AM	INAUGURATION
Welcome Address	Dr. G. Mary Sandeepa Asst. Professor, Dept. of Biotechnology
Lightening of the lamp by the Chief guest	
Invocation	BASE STRUCTURE TO THE TOTAL STRUCTURE TO THE
About the conference	Dr. S.B. Sainath, Organizing secretary
Presidential remarks	Dr. G. Vijaya Ananda Kumar Babu, Convener
Inaugural Address by the Chief Guest	Prof. R. Sudarsana Rao Hon'ble Vice-Chancellor Vikrama Simhapuri University, Nellore
Inaugural Address by the distinguished guests	Prof. G. Rajarami Reddy Former Vice-Chancellor Vikrama Simhapuri University, Nellore
has the Albeit Park secured Pood Salomos	Prof. K.R.S. Sambasiva Rao Hon'ble Vice-Chancellor Mizoram University, Mizoram
offen Securitation Sastanactic Agricologics In Malkeys	Dr. Nobuyoshi Yamashita Chief Senior Research Scientist, NIAIST- Ibaraki, Japan
torration specifical series	Prof. Fadzilah Deputy Director, Institute of Marine Biotechnology, University Malaysia Terengganu. Malaysia
ail sight es and Ford Selevina sig Teragonama Malaya	Dr. Prasada Rao S. Kodavanti Neurotoxicology, Toxicity assessment division Research triangle park, USA
Arringlish Security and Substitutes	Prof. P. Sreenivasula Reddy UGC-BSR Fellow, Dept. of Zoology, S.V. University, Tirupati
Felicitation Address	Dr. K.V.L. Shrikanya Rao, Asst. Professor Dept. of Biotechnology
Vote of Thanks	Dr. C. Kiranmai, Asst. Professor, Dept. of Biotechnology

Cool amated by Dr. Amam Cuay San	ikar, Asst. Professor, Dept. of Biotechnology
11.20 AM – 11.40 AM	Dr. Nobuyoshi Yamashita Chief Senior Research Scientist, NIAIST- Ibaraki, Japan
11.40 AM – 12.00 PM	Dr. Prasada Rao S. Kodavanti Neurotoxicology, Toxicity assessment division Research triangle park, USA
12.00 PM – 12.20 PM	Dr. Srinivas Pentyala Professor & Director Translational Research of Anesthesiology, Stony Brook, NY, USA
12.20 PM – 12.40 PM	Dr. Manoj Mishra, Professor in Biology, University of Alabama, Texas, USA
12.40 PM – 1.00 PM	Dr. Riyaz Basha Associate Prof. UNT Health Science Center Texas USA
1.00 PM – 1.20 PM	Dr. Nagaraju Sallaguadala Corporate Development in International Competition Fraunhofer Center for International Management & Knowledge Economy IMW
1.20 PM to 2.30 PM	Neumarkt 9-19, 04109 Leipzig, Germany LUNCH BREAK
	CHENTELE CECCION II
	CIENTIFIC SESSION II
Coordinated by Dr. K. Vidya Prabl	nakar, Asst. Professor, Dept. of Biotechnology
2.30 PM – 2.50 PM	Dr. Suresh Babu Naidu Durban University of Technology, South Africa
2.30 PM – 2.50 PM 2.50 PM – 3.10 PM	Durban University of Technology, South Africa Dr. Shamsul Bahri. Bin Abd. Razak Faculty of Fisheries and Food Sciences University Malaysia Terengganu, Malaysia Dr. Mohammed Arifullah Institute of Food Security and Sustainable Agricultur
University Nelloge	Durban University of Technology, South Africa Dr. Shamsul Bahri. Bin Abd. Razak Faculty of Fisheries and Food Sciences University Malaysia Terengganu, Malaysia Dr. Mohammed Arifullah
2.50 PM – 3.10 PM	Durban University of Technology, South Africa Dr. Shamsul Bahri. Bin Abd. Razak Faculty of Fisheries and Food Sciences University Malaysia Terengganu, Malaysia Dr. Mohammed Arifullah Institute of Food Security and Sustainable Agricultur (IFSSA), University Malaysia Kelantan, Malaysia Dr. Muhd Danish –Daniel Faculty of Fisheries and Food Sciences University Malaysia Terengganu, Malaysia Dr. Mannur Ismail Shaik Faculty of Fisheries and Food Sciences
2.50 PM – 3.10 PM 3.10 PM – 3.30 PM	Durban University of Technology, South Africa Dr. Shamsul Bahri. Bin Abd. Razak Faculty of Fisheries and Food Sciences University Malaysia Terengganu, Malaysia Dr. Mohammed Arifullah Institute of Food Security and Sustainable Agricultur (IFSSA), University Malaysia Kelantan, Malaysia Dr. Muhd Danish –Daniel Faculty of Fisheries and Food Sciences University Malaysia Terengganu, Malaysia Dr. Mannur Ismail Shaik



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE-524 320 ANDHRA PRADESH, INDIA

International Seminar On

RECENT ADVANCES IN EMERGING TECHNOLOGIES AND ITS IMPACT ON BIOLOGICAL SCIECNES (ISRAETBS-2019)

DECEMBER 23-24, 2019

DAY-1: 24-12-2019

VENUE: Sir CV RAMAN HALL, VIKRAMA SIMHAPURI UNIVERSITY, NELLORE

Day 2	24-12-2019			
SC	CIENTIFIC SESSION III			
Coordinated by Dr. C. Kiranmai, A	Asst. Professor, Dept. of Biotechnology			
10.00 AM – 10.20 AM	Prof. S. Kannan,			
	School of Life Sciences, Periyar University, Tamil Nadu			
10.20 AM – 10.40 AM	Dr. S. Elumalai,			
Professor & Head, Department of Biotechnology,				
	University of Madras, Chennai - 600 025, India.			
10.40 AM - 11.00 AM	Dr. Brahmachari			
Asst. Professor, Dept. of Biotechnology,				
	Krishna University, Machilipatnam			
11.00 AM to 11.10 AM	TEA BREAK			
11.10 AM to 1.00 PM	Oral and Poster Presentations			
1.00 PM to 2.00 PM	LUNCH BREAK			
	CIENTIFIC SESSION IV			
Coordinated by Dr. G. Mary Sando	eepa, Asst. Professor, Dept. of Biotechnology			
2.00 PM to 2.20 PM	Prof. M. Bramanandam,			
	School of Life Sciences, University of Hyderabad			
2.20 PM - 2.40 PM	Dr. Sailaja			
	Asst. Professor, Dept of Zoology, VSU, Nellore			
2.40 PM - 3.00 PM	Dr. Vijaya Bhaskar			
	Asst. Professor, Assam University, Diphu			
3.00 PM to 4.00 PM	Oral and Poster Presentations			
4.00 PM – 5.00 PM	VALIDECTORY FUNCTION			
· · · · · · · · · · · · · · · · · · ·	Coordinated by Dr. C. Kiranmai			
	Invocation			
Welcome Address	Dr. G. Mary Sandeepa,			
	Asst. Professor, Dept. of Biotechnology			
Presidential Address	Prof. K.V.S.N. Jawahar Babu			
	Principal, VSUC, VSU, Nellore			
Awards to the participants	BEST ORAL presentations			
	BEST POSTER presentations			
Valedictory Address by the Chief	Prof. R. Sudarsana Rao			
Guest	Hon'ble, Vice Chancellor			
	Vikrama Simhapuri University, Nellore			
	Participants Feed Back			
Vote of Thanks	Dr. K.V.L Shrikanya Rao			
	Asst. Professor, Dept. of Biotechnology			

Report of the event

Dr. S.B. Sainath, Organizing Secretary outlined the objectives of the programme. The ability to program electrons on a material called silicon made possible technologies companies and industries that were at one point unimaginable to many of us, but which have now fundamentally changed the way the world works. The first half of this century, though is going to be transformed by a new software revolution the living software revolution and this will be powered by the ability to program biochemistry on a material called biology. And doing so will enable us to harness the properties by the properties of biology to generate new kinds of therapies to repair damaged tissues, to reprogram faulty cells or even build programmable operating systems out of biochemistry. If we can realize this and we do need to realize it, its impact will be so enormous that it will make first software revolution pale in compassion and that's because living software would transform the entirety of medicine, agriculture and energy and these are sector that dwarf those dominated by IT. Imagine programmable plants that fix N₂ more efficiently or resist fungal pathogens or even programming crops to be perennial rather than annual enable us to double your crop yield each year that would transform agriculture and how well keep our growing and global population fed or Imagine programmable immunity, designing and harness molecular devices that guide your immune system to detect eradicate or even prevent disease. This would transform medicine and how well keep our growing and aging population healthy. We already have many of the tools that will make living software a reality. We can precisely edit genes with CRISPR technology. We can rewrite the genetic code, one base at a time. We can even build synthetic circuits out of DNA. But figuring out how and when wield there tools is still is a process of trial and error. Dr. Suresh Babu Naidu Durban University highlighted the embryonic stem cells. He said that these are unique because they are totally nave. They can become anything they want: brain cells, heart cells, bone cells, lung cell/ an adult cell type. It need deep expertise, years of specialisation and experimental protocols are difficult to discover and too often, difficult to reproduce. So programming biology is not yet as simple as reprogramming your computer. Living system self generate and self organise they operate at molecular scales and these molecular level interactions led generally to robust macro level scale output. They can self repair if we could understand the biological programs. It would transform our ability to understand how and why cells do what they do. Prof. Sudarsana Rao, Hon'ble Vice Chancellor, V.S. University, Nellore highlighted the need for emerging technologies. Prof. G. Raja Rami Reddy and Prof. P. Sreenivasula Reddy mentioned the emerging technologies in biomedicine. The second half of last century was completely defined by the technological revolution, the software revolution. Dr. S. Elumalai, Professor of Biotechnology, University of Madras disseminated the emerging technologies in the field of micro algal research. Prof. K.R.S. Sambasiva Rao Hon' ble Vice-Chancellor Mizoram University, Mizoram highlighted the role of intellectual property rights about the new inventions of the emerging technologies. Dr. Nobuyoshi Yamashita Chief Senior Research Scientist, NIAIST- Ibaraki, Japan elaborated the role of entrepreneurship activities associated with emerging technologies. He also explained the pollution activities and their impact on the mankind. Prof. Fadzilah Deputy Director, Institute of

Marine Biotechnology, University Malaysia Terengganu. Malaysia Dr. Prasada Rao S. Kodavanti Neurotoxicology, Toxicity assessment division Research triangle park, USA Prof. P. Sreenivasula Reddy UGC-BSR Fellow, Dept. of Zoology, S.V. University, Tirupati. Dr. Suresh Babu Naidu Durban University of Technology, South Africa, Dr. Shamsul Bnhri. Bin Abd. Razak Faculty of Fisheries and Food Sciences University Malaysia Terengganu, Malaysia Dr. Mohammed Arifullah Institute of Food Security and Sustainable Agriculture (IFS SA), University Malaysia Kelantan, Malaysia Dr. Muhd Danish -Daniel Faculty of Fisheries and Food Sciences University Malaysia Terengganu participated in the event and elaborated the role of emerging technologies such as Next generation sequencing and Mass spectroscopy.



International Seminar on

Recent Advances in Emerging Technologies and Its Impact on Biological Sciences

23rd & 24th December, 2019



This is to certify that Prof./Dr./Mr./Ms.....

from
has participated and presented a paper (Oral/Poster) in the "International
Seminar on Recent Advances in Emerging Technologies and its impact on
Biological Sciences (ISRAETBS-2019)" held during December 23-24, 2019, organized by Department of Biotechnology, Vikrama Simhapuri University,
Nellore - 524320, AP, India. He/She also chaired a session/delivered invited
talk/presented.

Dr. S.B. Sainath

Organizing Secretary

Prof. G. Vijaya Ananda Kumar Babu

Convener

1	1		
5° MO	NAME	ADDRESS	SIGNATURE
	Dr. Sallagundada Wagaraja	Fraunhofer IM W Germany.	
-0.	Dr. Riyaf Bashq	UNT Health Science Center Footworth, TX, USA.	
	Dr. Manoj Misha	Alabama Starte University Montgomery, AL-36117 USA	
1 1	Dr. Srinivas Pentyala	Stong Brook Med. Ctr.	
	Dr T. Veer Dely	NY USA.	7.4
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GUESTS

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GUESTS

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17.	Prof. Sign. Il	Dept of B.M., USU	23/12/19				
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	32 01	P. Thriveni		Asst-prof Dept-of chemistry V.S.U, rellore		P.P

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OND	NAME	DEPARTMENT	SIGNATOR
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2.	C. RAGHUTEJA REDDY	FOOD TECH NOLD GTY	Dath
3	G. kalyan	Microbiology	G.kolyen
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