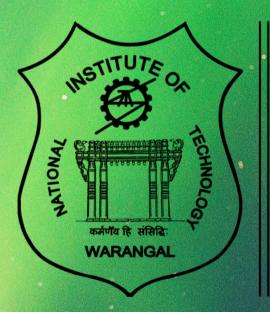
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Abstracts of

National Conference on Biological, Biochemical, Biomedical, Bioenergy, and Environmental Biotechnology

Editors

- Korrapati Narasimhulu
- Thyageshwar Chandran





NCB⁴EBT-2021 29-30 January, 2021

Organized by

Department of Biotechnology National Institute of Technology Warangal Telangana State, India



Administrative Building of NIT Warangal



Building of Department of Biotechnology



NCB⁴EBT-2021

Korrapati Narasimhulu Thyageshwar Chandran (Editors)

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National Institute of Technology Warangal

Published by AIJR Publisher, Dhaurahra, Balrampur, India 271604



Abstracts of National Conference on Biological, Biochemical, Biomedical, Bioenergy, and Environmental Biotechnology (NCB4EBT-2021) 29–30 January 2021

Editors

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Department of Biotechnology, National Institute of Technology Warangal, India

Conference Venue Online

ISBN: 978-81-947843-4-0

DOI: https://doi.org/10.21467/abstracts.109

Туре

Abstract Book

Series

AIJR Abstracts

Published 16 March 2021

Number of Pages 118

Copyeditor Dr. D. Qaiser

Imprint AIJR Books

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Distribution Channel: eChoice, New Delhi, India

Published by



AIJR Publisher, Dhaurahra, Balrampur, India 271604

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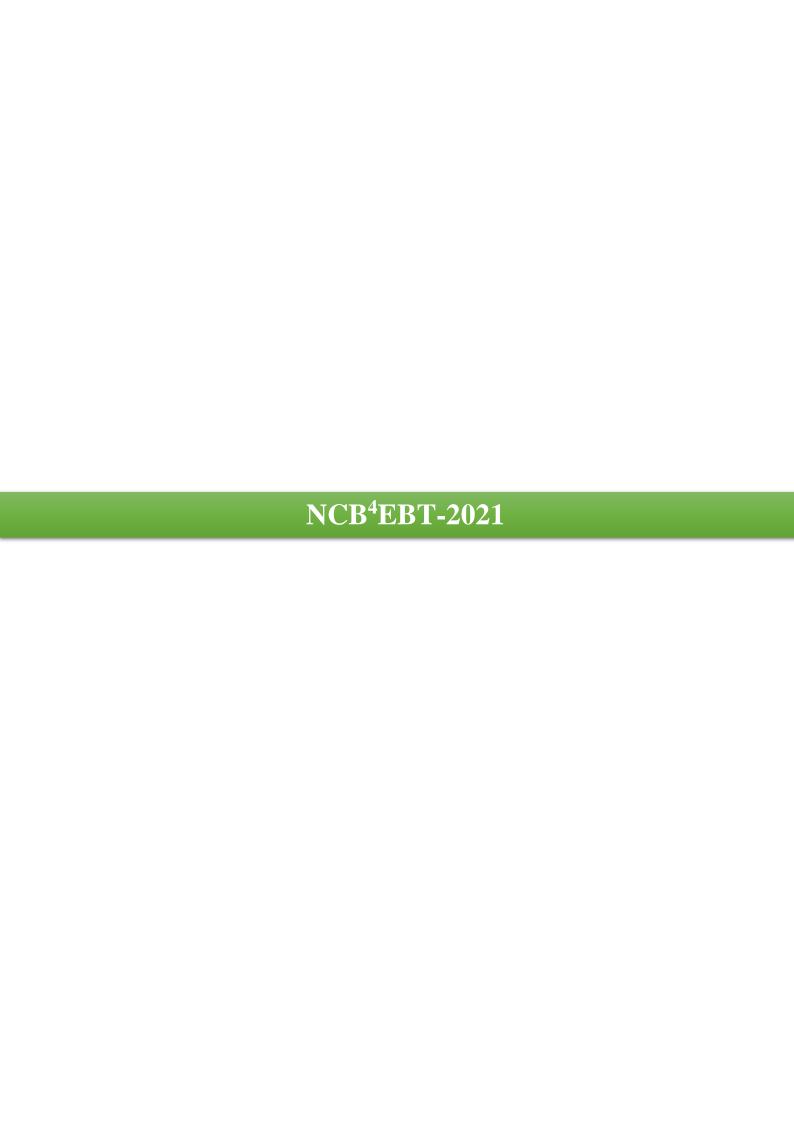


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Foreword

The first National Conference on Biological, Biochemical, Biomedical, Bioenergy, and Environmental Biotechnology (NCB4EBT-2021) 29th – 30th January, 2021 was organized online due to the ongoing pandemic. This conference is first of its kind organized by NIT-W which covered an array of interesting topics in biotechnology. This makes it a bit special as it brings together researchers from different disciplines of biotechnology, which in turn will also open new research and cooperation fields for them. Total over one hundred researchers were registered for the conference. Seven individual sessions with different themes provided a perfect platform for the attendees to share and present their research ideas. We would like to send our special thanks to our beloved director Prof. N. V. Ramana Rao and Head of Department Dr. R. Satish Babu for their constant support and motivation. In addition, we kindly acknowledge the unwavering support received from the Department of Biotechnology faculties and staff members. We also thank the chairpersons dr. Dr. Surajbhan Sevda, Dr. B. Rama Raju, Dr. Perugu Shyam, Dr. V. Kohila, Dr. M. Jerold Dr. Asish Prabhu, Dr. Priya and Dr. Sowmya Lipsa for kindly agreeing to chair the sessions.

Finally, most importantly we would like to thank all the participants individually for their active participation in all the sessions of the conference.

-Organizing Team

About the Conference

The aim of the conference is to provide a common platform for interaction among researchers and experts in the fields of Biological, Biomedical, Bioenergy and Environmental Biotechnology. It will provide an opportunity for the exchange of ideas in these fields and share advanced knowledge from both academic and industry, communicating with each other about their experiences, taking forward the issues and further prospects in these fields.

The unique theme of this conference will help us to contribute to the improvement of efforts taken to tackle local and global impacts of Biological Science. It aims to cover a varied range of topics such as Biochemical Engineering, Metabolic Engineering, Cancer Biology, Bioinformatics, Stem cell Technology, Environmental Biotechnology, Biofuels and Bioenergy, Biomedical Engineering, Water and Air Treatment, 3D Bioprinting, Biosensors, Biostatistics, Food Biotechnology, Plant and Animal Biotechnology, Bioinstrumentation, Bioelectricity and Biophysics.

About the Editors



Dr. K. Narasimhulu has vast working experience in the field of environmental biotechnology, biofuels and bioenergy and is working as Associate Professor at Department of Biotechnology, National Institute of Technology, India. He received Ph.D in Biotechnology, B.Tech in Chemical Engineering from NIT Warangal and M.Tech in Biotechnology from Jawaharlal Nehru Technological University, Hydearabad. He has more than 20 years of teaching and research experience in the said field. His areas of interest include Bioprocess Engineering, Systems Biology. He has guided three (03) Phd. Students, many undergraduate

students and Executed Five (05) sponsored research projects. He has received several awards and recognitions from different national and international organizations. His research work has been published in peer reviewed international and national journals. He has been instrumental in organizing various conferences and Faculty development programmes. He has presented research papers in International Conferences hosted by countries like the U.S.A, Australia, Dubai and Thailand.



Dr. Thyageshwar Chandran is a structural biologist, with more than 10 years of research experience in the said field. He received his Ph.D. in Molecular Biophysics from Indian Institute of Science, Bangalore. At present he is working as an Assistant Professor at NIT-Warangal. His research interest is to predict the structures of naturally occurring biomolecules and to elucidate their interactions with ligands and other biomolecules using Cryo-EM, X-ray crystallography, Biophysical techniques and MD simulations. He elucidated the structural features and binding interactions

of several bio molecules. He has published several research papers in peer reviewed international journals and presented papers in several international conferences. Recently, his team got an international computational support grant for their research on COVID-19.

Message from Organizing Secretaries

It is our pleasure to welcome all research scientists, academics, postgraduate and graduate students from all over India for the 1st National Conference on Biological, Biochemical, Biomedical, Bioenergy, and Environmental Biotechnology (NCB 4 EBT-2021) $29^{th}-30^{th}$ January, 2021. During the last twenty years, the field of biotechnology has made a significant impact in almost all the domains of human life, may it be health, environment, food and agriculture. With the recent pandemic the world's attention has once again shifted to "biotechnology" due to its unlimited potential to serve and benefit humanity.

The primary goal of "NCB4EBT-2021" is to promote scientific discoveries with a commitment to promote open, transparent, and national level scientific exchange on various topics related to "Bioscience and Biotechnology". The unique conference theme will help us to contribute to the improvement of efforts taken to tackle local and global impacts of Biological Science. It aims to cover a varied range of topics such as Biochemical Engineering, Metabolic Engineering, Cancer Biology, Bioinformatics, Stem cell Technology, Environmental Biotechnology, Biofuels and Bioenergy, Biomedical Engineering, Water and Air Treatment, 3D Bioprinting, Biosensors, Biostatistics, Food Biotechnology, Plant and Animal Biotechnology, Bioinstrumentation, Bioelectricity and Biophysics.

Young and dynamic scientists will be giving the Plenary and oral presentations, and we sincerely hope that these two days of scientific activities will provide a perfect amalgam for novel discovery in the field of biotechnology. We are sure that each one of the participants will tremendously benefit from the deliberation of this conference which will pave way to many new developments in the field of biotechnology. We congratulate all of you for your commitment and active participation and wish you all the success.

Dr. Korrapati Narasimhulu and Dr. Thyageshwar Chandran

Message from the Director, NIT Warangal



I am very happy to note that Department of Biotechnology, National Institute of Technology (NIT) Warangal is welcoming new year with organizing a Two-day National Conference on 'Biological, Biochemical, Biomedical, Bioenergy and Environmental Biotechnology' from 29th to 30th January 2021 through online mode. In this pandemic situation also, the Institute is determined to dissipate and facilitate without any limitations. Biotechnology is a very broad field in present days and different departments, fields require the intervention of biotechnology in them. Even the New Education Policy speaks about the

multidisciplinary education to enhance the progress of the country. Biotechnology has expanded to include various sciences in it such as geonomics, applied immunology and development of pharmaceuticals. Even though the department of biotechnology has started lately in NIT Warangal, in a very short span it has grown leaps and bounds. Starting a PG Program, it has received Internationally reputed projects. Biochemical field involves the study of various chemicals in the vital process undergoing in living organisms has made a difference in the way we survive in the world. Biomedical study involves those sciences which mostly focus on Human Health and the diseases and their cures. There are many new equipment and modern methods such as Artificial Hips, Stem cell engineering, 3D printing of biological organs which is an area that needs to be explored by the researchers. Biomass is a study, very relevant to the present day needs and the concept of Waste to Wealth is the need of the hour. Recently it has been found that biomass can be converted into biofuels that can take the place of combustion fuels such as Gasoline etc. I believe that the conference will provide a good platform for exchange of ideas and information among the academicians, researchers, and scientists in the areas of Biological, Biochemical, Biomedical, Bioenergy and Environmental Biotechnology. The organization of the conference on such important fields would also prove beneficial to the participants as they get an opportunity to interact with renowned experts and other researchers. I send my best wishes for the success of the conference and appreciate organizing secretaries Dr. K. Narasimhulu and Dr. Thyageshwar Chandran for this excellent initiative.

> Prof. N. V. Ramana Rao Director, NIT Warangal

Conference Committee

Local Advisory Committee

Prof. K. V. Jaya Kumar, Civil Engg., NITW

Prof. CSRK Prasad, Civil Engg., NITW

Prof. S. Srinivasa Rao, Mech Engg., NITW

Prof. P. Bangaru Babu, Mech Engg., NITW

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Prof. M. Padmavathy, Rajiv Gandhi School of Intellectual Property Law, IIT Kharagpur

Prof. Nanda Kishore, Chemical Engineering, IIT Guwahati

Keynote Speakers

• Atun Roy Choudhury, HoD- Environmental Engineering, Banka BioLoo Limited, 56- Nagarjuna Hills, Punjagutta, Hyderabad-500082.

Title: WASTEWATER A NATIONAL THREAT OR NATURAL SOLUTION???

• **Dr. Arthi Venkatesan,** Scientific Specialist at Altem Technologies, Bangalore, India. **Title: Advances in drug design methods**

Conference Schedule

		1st Day of the co	onference (29thJanuary2021)
	09.30-10.00	INAUGURATION AND INAUGURAL ADDRESS	
	09.30-09.35	Welcome Speech	Dr. K. Narasimhulu
	09.35-09.40	Introductory Remarks	Dr. R. Satish Babu
	09.40-09.55	Inaugural Address	Prof. N. V. Ramana Rao, Director, NITW
	09.55-10.00	Vote of thanks	Dr. Thyageswar Chandran
		Ple	nary Session- I
PL 1	10.00-10.45	Atun Roy Choudhury, HoD- Environmental Engineering, Banka BioLoo	
		Limited, 56- Nagarjuna Hills, Pun	jagutta, Hyderabad-500082
		Title: WASTEWATER A N	IATIONAL THREAT OR NATURAL
		SOLUTION???	
		Oral Pre	sentation Session– I
		Environn	nental Biotechnology
		(Chairpersons: Dr.Surajbh	anSevda and Dr.K.Narasimhulu, NIT
			Warangal)
OP1	10.45-10.55	• •	f Civil Engineering, Gudlavalleru Engineering
		College, Andhra Pradesh, India.	
			Contaminated Water by using Solid
		Waste Bio-adsorbents	
OP 2	10.55-11.05	_	of Biotechnology, Chaitanya Deemed to be
		University, Kishanpura, Hanamko	0
			tion of pesticide degrading bacteria from
OP 3	11.05-11.15	tomato field of Telangana regio	
OF 3	11.05-11.15	*	of Zoology, Presidency College, Chennai hibitions bioactive compounds from
		sargassaceaemyriocystumto wa	1
OP 4	11.15-11.25		f chemistry, Aditya college of engineering and
01 ,	11110 11120	technology, Surampalem, Kakinada	
			soil sediments in industrial area of East
		Godavari region	
OP 5	11.25-11.35	Sumit Kumar Khan, Dept. of	Civil Engineering, School of Engineering &
		Technology, Adamas University, K	Kolkata-700126, India
		Title: Use of Ceramic Membra	ane in Water Treatment Technology Over
		Traditional Process for Surface	Water Purification
	11.35-11.45		Break
OP 6	11.45-11.55	Manasa. P, Department of Biotech	nology, National Institute of Technology Andhra
		Pradesh	
		Title: Development of Bio adso	orbent for removal of heavy metals
OP 7	11.55-12.05		institute of Environmental Studies, Bhopal,
		Madhya Pradesh	

OP 10 12.2 OP 11 12.3 OP 12 12.4 OP 13 14.6 OP 14 14.1 OP 15 14.2	45-12.55 .55-14.00 .00-14.10 .10-14.20 .20-14.30 .30-14.40	Title: Sustainable Development in Leather Industry by use of Membrane Technology G. Srinivas Reddy, Mahatma Gandhi Institute of Technology, Hyderabad – 500 075, India Title: Statistical Distribution of Natural Radioactivity levels in Rajanna Sircilla District, Telangana State, India Break Oral Presentation Session – 2 Biofuels and Bioenergy (Chairpersons: Dr. B. Rama Raju and Dr. K. Narasimhulu, NIT Warangal) Kurapati Rajagopal and Ch. Obula Reddy, Department of Biotechnology, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad – 500075 Title: The Sediment Formation in Long-Term Stored Biodiesels and Blends with respect to Fatty Acid Profile of Biodiesel D. Divya Bharathi, D. Gracy, R. Mahima, B. Bharath, Biomedical Engineering, Karpaga Vinayaga College of Engineering and Technology Title: Green Synthesis, Characterization and In vitro analysis of novel Nano hydroxyapatite dental restorative material Manasa P, Department of bio-technology, National Institute of Technology Andhra Pradesh Title: Ultrasound assisted pre-treatment to enhance the hydrolysis step Kushi Yadav, Mnika Prakash Rai, Amity Institute of Biotechnology, Amity University Uttar Pradesh, Sector 125, Noida, India (201313) Title: Integrated MicroalgalBiorefinery: A zero waste management based self-sustaining and bio-economical closed loop approach Ritambhara Priyadershi, Dept. of Biotechnology, III.M-College of Engineering and Technology, Greater Noida-201306, Uttar Pradesh Title: Thermochemical conversion of microalgal biomass into biofuels
OP 10 12.2 OP 11 12.3 OP 12 12.4 OP 13 14.6 OP 14 14.3 OP 16 14.3		Title: Sustainable Development in Leather Industry by use of Membrane Technology G. Srinivas Reddy, Mahatma Gandhi Institute of Technology, Hyderabad – 500 075, India Title: Statistical Distribution of Natural Radioactivity levels in Rajanna Sircilla District, Telangana State, India Break Oral Presentation Session – 2 Biofuels and Bioenergy (Chairpersons: Dr. B. Rama Raju and Dr. K. Narasimhulu, NIT Warangal) Kurapati Rajagopal and Ch. Obula Reddy, Department of Biotechnology, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad – 500075 Title: The Sediment Formation in Long-Term Stored Biodiesels and Blends with respect to Fatty Acid Profile of Biodiesel D. Divya Bharathi, D. Gracy, R. Mahima, B. Bharath, Biomedical Engineering, Karpaga Vinayaga College of Engineering and Technology Title: Green Synthesis, Characterization and In vitro analysis of novel Nano hydroxyapatite dental restorative material Manasa P, Department of bio-technology, National Institute of Technology Andhra Pradesh Title: Ultrasound assisted pre-treatment to enhance the hydrolysis step Kushi Yadav, Mnika Prakash Rai, Amity Institute of Biotechnology, Amity University Uttar Pradesh, Sector 125, Noida,India (201313) Title: Integrated MicroalgalBiorefinery: A zero waste management based self-sustaining and bio-economical closed loop approach Ritambhara Priyadershi, Dept. of Biotechnology, IILM-College of Engineering
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OP 10 12.2. OP 11 12.3. OP 12 12.4.	45-12.55	Title: Sustainable Development in Leather Industry by use of Membrane Technology G. Srinivas Reddy, Mahatma Gandhi Institute of Technology, Hyderabad – 500 075, India Title: Statistical Distribution of Natural Radioactivity levels in Rajanna Sircilla District, Telangana State, India
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OP 10 12.2		Technology, Adamas University, Kolkata-700126, India
OP 10 12.2		T 1 1 A1 II :
	35-12.45	Susmita Pandit, Dept. of Civil Engineering, School of Engineering &
		by using extracellular polymers extracted from bacteria and yeast cultures
		Title: Comparison in the removal of chromium (III) from tannery effluent
	00	Institute, Chennai, Tamil Nadu, India
OP 9 12.15	25-12.35	Jothieswari. M, Environmental Science Lab, CSIR-Central Leather Research
OP 9 12.15		Title: Catalytic oxidation of toluene containing wastewater
OP 0 12 1	13-12.23	Central Leather Research Institute(CLRI), Chennai, Tamil Nadu, India
	15-12.25	N. Prabhakaran and S. Swarnalatha, Environmental Science Lab, CSIR –
		Title: Phytoremediation: An Emerging Tool to Combat Environmental Pollution
		Pradesh Title Black and distinct An Engagine Teal of Combat Engineering
OP 8 12.0	.05-12.15	Kirti Pandey, EPCO Institute of Environmental Studies, Bhopal, Madhya
		Dairy Industry
		Title: Advancement in Waste Water Treatment by recovery method in

OP 18	14.50-15.00	Shrestha Debnath and Dipankar Ghosh, Microbial Engineering and Algal
		Biotechnology Laboratory, Department of Biotechnology, JIS University,
		Kolkata, West Bengal, 700109
		Title: Algal Biodiesel: The Next Generation Green Energy Resources
		towards Sustainability
OP 19	15.00-15.10	Kamalendu De and Dipankar Ghosh, Microbial Engineering and Algal
		Biotechnology Laboratory, Department of Biotechnology, JIS University,
		Kolkata, West Bengal, 700109
		Title: Algae could be the most promising food supplements: an accelerated
		future outlook
OP 20	15.10-15.20	Rajnikanth Cheri, Yash Kumar Rathore, Sandeep Gardasu, Department of
		Biotechnology, National Institute of Technology Warangal, Warangal-506004,
		Telangana
		Title: Green Energy generation in India: Present scenario and its future
		aspects.
OP 21	15.20-15.30	P Venkata Varaha Mahadesh, B Sreenivasulu, Department of Chemical
		Engineering, Gayatri Vidya Parishad College of Engineering (A), Madhurawada,
		Visakhapatnam-530048
		Title: Conversion of Organic Waste to Energy: A Review on Agro and
		Slaughtering Waste
OP 22	15.30-15.40	A. Bhuvaneshwari Janani, M.Arya, Divakar. K, Department of
		Biotechnology, Sri Venkateswara College of Engineering, Sriperumbudur, Tamil
		Nadu, India
		Title: Microbial Biotransformation and Degradation of Antibiotics using
		Antimicrobial Resistant Microbiome
OP 23	15.40-15.50	Kiran Khandare, Saswata Goswami, Center of Innovative and Applied
		Bioprocessing (CIAB) Sector-81, Knowledge City Mohali-140306, India
		Title: Extraction of kaemferol from moringa oliefera using CO ₂
		supercritical fluid extraction: a green technology
OP 24	15.50-16.00	Rushikesh Mane, S. Shiva Durga Reddy, Godavarti Rahul, Department of
		Biotechnology, National Institute of Technology Warangal
	46.00.46.40	Title: Biofuels and Bioenergy
	16.00-16.10	Break
		Oral Presentation Session – 3
		Plant, Animal Environmental and Food Biotechnology
		(Chairpersons: Dr. Perugu Shyam and Dr. Thyageswar Chandran, NIT
OD 25	16 10 16 20	Warangal)
OP 25	16.10-16.20	TP. Prasanna Kumar, Thupurani MuraliKrishna, Department of Biotechnology, Chaitanya (Deemed to be University), Warangal, 506001
		Title: Microbial profiling of Liquid Biofertilizers; Mass production of
		certain Microbial strains used for Sustainable Agriculture - A Study
OP 26	16.20-16.30	TirthaTarafdar, D. Rathna Prabha, Department of Biotechnology, National
01 20	10,20-10,00	Institute of Technology, Warangal, Telangana, India.
		Thousand of Technology, warangan, Telangana, mula.

		Title: Role of Plant Biomarkers & Quenchers in response to Heavy Metal
		Stress (Arsenic)
OP 27	16.30-16.40	Palash Ghorai and Dipankar Ghosh,
01 27	10.50 10.10	Microbial Engineering and Algal Biotechnology Laboratory, Department of
		Biotechnology, JIS University, Kolkata, West Bengal, 700109
		Title: Microbial enzyme based biosensor for determination of inorganic
		phosphate content as an essential soil fertility index
OP 28	16.40-16.50	K.Sujana, K.Vamsy Vaishnavi, M. Sai Soumya Sri, B. Sreenivasulu, Gayatri
01 20	10.40-10.50	Vidya Parishad College of Engineering, Visakhapatnam, A.P., India
		Title: Treatment of Sewage
OP 29	16.50-17.00	Sayantani Paul and Dipankar Ghosh, Microbial Engineering and Algal
01 27	10.30-17.00	Biotechnology Laboratory, Department of Biotechnology, JIS University,
		Kolkata, West Bengal, 700109
		Title: Current advances on plastic recycling using diverse microbial
		regimes
OP 30	17.00-17.10	Santosh Kumar Karn, Department of Biochemistry and Biotechnology, Sardar
01 00	17.00 17.10	Bhagwan Singh Post Graduate Institute of Biomedical Sciences& Research,
		Balawala, Dehradun-248161 (UK), India.
		Title: Microbial nitrogen and phosphorus recovery from industrial effluent
OP 31	17.10-17.20	Gujjari Sreehitha, Anumulapelli Ravali, Erelli Pallavi, Polapalli Nikhil,
		Ganji Sangeetha, Department of Biotechnology, Chaitanya (Deemed to be
		university), Kishanpura, Hanamkonda, Warangal Urban, Telangana, India,
		506001
		Title: Antibacterial and Biofilm Inhibitory activities of Aegle marmelos
		Methanol leaf extract
OP 32	17.20-17.30	Snijesh V. P, Department of Biotechnology, SRM Institute of Science and
		Technology, SRM Nagar, Kattankulathur, 603203, Kanchipuram, Chennai TN,
		India
		Title: SARS-CoV-2 3-chymotrypsin-like protease and its affinity to human
		STAT2 protein can possibly alter type 1 Interferon signaling, an in silico
		based study
OP 33	17.30-17.40	Maanasa. M, Divakar. K, Department of Biotechnology, Sri Venkateswara
		College of Engineering, Sriperumbudur, Tamil Nadu, India
		Title: Metagenomic analysis of Antimicrobial Resistant Genes in
		Wastewater Microbiome
OP 34	17.40-17.50	Bhuvaneshwari S, Illakiya bharathi K, Varsha K, Sowmya Hari,
		Biotechnology, School of Engineering, Vels Institute of Science Technology and
		Advanced Studies.
		Title: In silico molecular docking analysis of plant compounds against
		VISTA protein: a novel target in cancer
OP 35	17.50-18.00	Ghazanfar Sheikh, Research Scholar, University of Alberta, Canada
		Title: Sustainable production of hydrogen

		2 nd day of the conference (30 th January2021)
		Plenary Session - II
	09.00-10.30	Dr. Arthi Venkatesan, Scientific Specialist at Altem Technologies, Bangalore,
		India.
		Title: Advances in drug design methods
	10.30-10.45	Break
		Oral Presentation Session – 4
		Biotechnology-1
		(Chairpersons: Dr. V. Kohila and Dr. Dr. Thyageswar Chandran, NIT
		Warangal)
OP 36	10.45-10.55	Nivedita Patel, Department of Chemical Engineering, Veer Surendra Sai
		University of Technology, Burla, Odisha, India
		Title: Catalytic cracking of biomass using zeolite catalyst: Characterization
		of pyrolytic oil
OP 37	10.55-11.05	Dushyanth R Vennapu, Department of Chemistry, Central University of
		Punjab, Bathinda-151401, Punjab, India
		Title: Immuno-informatics in SARS-CoV-2 study
OP 38	11.05-11.15	Subhrajeet Dash, Department of Chemical Engineering, Dr. B R Ambedkar
		National Institute of Technology, Jalandhar, Punjab-144011
		Title: Thermochemical Valorization of Lignin Concerning Biochemical
		and Bio-aromatics Production
OP 39	11.15-11.25	G Sai Bhavani, Department of Biotechnology, NIT Warangal, India
		Title: Systems Modeling and Analysis of TGF - β Induced Epithelial to
		Mesenchymal Transition in Cancer Metastasis
OP 40	11.25-11.35	Safia Syeda, NMIMS
		Title: Exploring potential alternatives to antibiotics for management of
		Tuberculosis
	11.35-11.45	Break
OP 41	11.45-11.55	Vivek Singh and Deepak Mailk, Department of Biotechnology, University
		Institute of Engineering and Technology, Kurukshetra University, Kurukshetra
		Title: Application of silver nanoparticles in waste water treatment
OP 42	11.55-12.05	Rikhia Majumdar, Department of Genetic Engineering, SRM Institute of
		Science and Technology, Potheri, SRM Nagar, Kattankulathur, Tamil Nadu-
		603203
		Title: Impact of copper stress on environmental bacteria
		Shewanellaoneidensis
OP 43	12.05-12.15	Varsha K M, Maddirala Shivani, Motru Vineela, Surajbhan Sevda,
		Department of Biotechnology, National Institute of Technology Warangal
		Title: Metal recovery using bioelectrochemical system
OP 44	12.15-12.25	Kunwali Das and Ashutosh Kumar, Department of Microbiology, Tripura
		University (A Central University), Suryamaninagar, Agartala, Tripura, India
		Title:Comparison of biochemical characteristics of selected mesophilic
		proteins involved in bioremediation and their homologs in halophiles

OP 45	12.25-12.35	Somnath Das and Dipankar Ghosh, Microbial Engineering and Algal
		Biotechnology Laboratory, Department of Biotechnology, JIS University,
		Kolkata, West Bengal, 700109
		Title: Isolation of ligninolytic microbial regime from mangrove ecosystem
		for the bioremediation of lignocellulosic waste generated from jute plant
OP 46	12.35-12.45	Dr. Dipankar Ghosh, Microbial Engineering and Algal Biotechnology
		Laboratory, Department of Biotechnology, JIS University, Kolkata, West Bengal,
		700109
		Title: Current trends in metabolic engineering and synthetic biology for
		sustainable agriculture
OP 47	12.45-12.55	Sakshi bagiyal, IILM College of engineering and technology
		Title: Microbial conversion of methane to value added products: current
		development, challenges and perspectives.
	12.55-14.00	Break
		Oral Presentation Session – 5
		Bioprocess and Biochemical Engineering
		(Chairpersons: Dr. M. Jerold and Dr. Asish Prabhu, NIT Warangal)
OP 48	14.00-14.10	Praveen Krishna Veernala, Centre for Biotechnology, Chemical Engineering
		Department, AU College of Engineering, Andhra University, Visakhapatnam-
		530003, India
		Title: Isolation and Screening of Lovastatin production using fungal isolate
		from soil samples under solid state fermentation
OP 49	14.10-14.20	Vaddadi suman, Centre for Biotechnology, Chemical Engineering Department,
		AU College of Engineering, Andhra University, Visakhapatnam-530003, India
		Title: Production and Optimization of L-Glutaminase with mixed
		substrate using Aspergillus Wentii MTCC 1901 by Solid state fermentation
OP 50	14.20-14.30	Aanandhalakshmi R and B. Vanavil, Department of Biotechnology,
		Kalasalingam Academy of Research and Education, Krishnankoil-626126,
		Tamilnadu, India
		Title: In silico characterization of alginate lyase produced by different
27.71		species
OP 51	14.30-14.40	Ch. Obula Reddy, Department of Biotechnology, Chaitanya Bharathi Institute
		of Technology, Gandipet, Hyderabad – 500075
		Title: Fermentative production of lactic acid from lignocellulosic biomass
OD 52	14 40 14 50	by mutant lactobacillusdelbreuckii
OP 52	14.40-14.50	Prasanna Jyothi .D, N.M.Yugandhar, Centre for Biotechnology, Department
		of Chemical engineering, A.U. College of Engineering(a), Andhra University,
		Visakhapatnam. Title: Isolation, screening and optimization of protease producing
		marine actinomycetes under submerged fermentation
OP 53	14.50-15.00	DebosmitaSharmmah, Heritage Institute of Technology, Kolkata, West Bengal
01 33	17.50-15.00	Title: Preparation, Characterization and study of equilibrium adsorption of
		Activated Carbon Obtained Jute sticks
		Tichyaica Carbon Obtained Jule Sheks

OP 54	15.00-15.10	Siddhartha Shankar Sharma, Department of Genetics and Plant Breeding,
	13.00 13.10	Uttar BangaKrishiViswavidyalaya, Pundibari, Cooch Behar, West Bengal-736165
		Title: Seed marker traits behave as biosensor for the reflection of altitude
		change in case of an endangered Himalayan medicinal plant;
OD 55	45 40 45 90	Valerianajatamansi
OP 55	15.10-15.20	Ch. Satyavathi, M. Sai Keerthana, P. Tanmai Mani, P. Akhila, B.
		Sreenivasulu, Gayatri Vidya Parishad College of Engineering, Visakhapatnam,
		A.P, India
		Title: Advances in various industries using enzymes by biotechnological
		methods
OP 56	15.20-15.30	Abhilasha Shourie, U. Vijayalakshmi, Department of Biotechnology, Faculty
		of Engineering & Technology, Manav Rachna International Institute of Research
		& Studies, Faridabad, India.
		Title: Production of Phenolic Antioxidants in Callus Cultures of
		Glycyrrhiza glabra
OP 57	15.30-15.40	Jitendra Singh Verma, CSIR-North East Institute of Science and Technology,
		Jorhat, Assam
		Title: Recent Development in the microalgal production of omega-3,
		omega-6 acids and PUFAs
OP 58	15.40-15.50	Calmly M Koshy, Anbu Malarmathi, Department of genetic engineering, SRM
		institute of Science and Technology, Potheri, SRM Nagar, Kattankulathur, Tamil
		Nadu
		Title: Synthesis of silver nano particles from Ipomoea quamoclit
OP 59	15.50-16.00	U. Vijayalakshmi, Abhilasha Shouriea, Department of Biotechnology; Faculty
		of Engineering & Technology; Manav Rachna International Institute of Research
		& Studies, Faridabad, India.
		Title: Identification and Characterization of Bioactive Compounds in
		Glycyrrhiza glabra through GC-MS
	16.00-16.10	Break
		Oral Presentation Session – 6
		Biotechnology-2
		(Chairpersons: Dr. Priya and Dr. Sowmya Lipsa, NIT Warangal)
OP 60	16.10-16.20	Reshmi Dutta, SRM Institute of Science and Technology, Kattankulathur, Tamil
		Nadu
		Title: DENV host interaction and altered antiviral pathway during DENV
		infection
OP 61	16.20-16.30	Yogita Thakur, Department of Biotechnology, Singhania University, Jhunjhunu
		333001, Rajasthan, India
		Title: EGFR gene amplification and ALK-EML4 gene inversion in Non-
		small cell Lung Cancer (NSCLC)
OP 62	16.30-16.40	Keerti Kumar Yadav, Ajay Kumar Singh, Central University of South Bihar -
		Gaya (Bihar) 824236, India
		Title: Oral cancer identification candidate genes by integrated Protein-
		Protein interaction and Systems biology approach
1		1 Totem interaction and Systems blology approach

OP 63	16.40-16.50	Suchitra Singh, Department of Bioinformatics, Central University of South Bihar,
		Gaya
		Title: Porphyromonas gingivalis virulence factors Inhibitors screening in
		oral squamous cell carcinoma (OSCC)
OP 64	16.50-17.00	Piyush Kumar Yadav, Department of Bioinformatics, University of South
		Bihar, Gaya Bihar
		Title: Hepcidin as iron chelation target in Beta Thalassemia Major: An in-
		silico approach
OP 65	17.00-17.10	Sukanya V K, Department of Biotechnology, Vels institute of science,
		Technology and Advanced studies (vistas)
		Title: A Review on Pathogenicity and Antibiotic resistance of Coagulase -
		negative staphylococci isolated retailing chicken meat
OP 66	17.10-17.20	Nabanita Chakraborty, University of Calcutta, Department of Marine Science,
		Kolkata, India
		Title: Effectiveness of Electroanaesthesia in Indian Major Carp
		Labeorohita
OP 67	17.20-17.30	Dr. Sandeep Gupta Department of Physics, Punjabi University College,
		Dhilwan (Barnala) Punjab
		Title: Computation of gamma ray mass attenuation coefficients and
		exposure build-up factor of hybrid biomaterials
OP 68	17.30-17.40	Vinod Kumar Nathan. School of Chemical and Biotechnology, SASTRA
		Deemed to be University, Thirumalasamudram, Thanjavur 613401, Tamil Nadu,
		India
		Title: Prospecting carbonic anhydrase as a drug target for antibiotic
_		resistant Vibriocholerae infection management: An in silico approach
OP 69	17.40-17.50	P.S. Gowtham and B. Vanavil, Department of Biotechnology, Kalasalingam
		Academy of Research and Education, Krishnankoil-626126, Tamilnadu
		Title: Docking and molecular interaction studies of covid-19 viral targets
OD 70	45 50 40 00	with sulphated polysaccharides
OP 70	17.50-18.00	Agnik Haldar, Ajay Kumar Singh, Department of Bioinformatics, Central
		University of South Bihar, Gaya, Bihar, India
		Title: A transcriptomic analysis on long non-coding RNA role in oral cancer inhibition
OP	18.00-18.10	Anjana, Ekta Singh, Saswata Goswami, Center of Innovative and Applied
70a	10.00-10.10	Bioprocessing, Mohali, Punjab, India
70a		Title:Preparation and characterization of Polyhydroxybutyrate (PHB)
		based biocomposites
OP	18.10-18.20	Alicia Nyla Lewis ¹ , Reshma U R ¹ , Vipul Madhavan ¹ , Sree Parvathy Babu
70b	10.10-10.20	Reena ¹ , Rohini Samadarsi ^{1*}
705		1*Department of Biotechnology and Biochemical Engineering, Sree Chitra
		Thirunal College of Engineering, Thiruvananthapuram, Kerala, India
		Title: Significance of Nutraceuticals in Cancer Therapy
OP	18.20 - 18.30	Nisha Gaur and Korrapati Narasimhulu
70c	10.20 10.30	Department of Biotechnology, National Institute of Technology Warangal
700		Department of Diotectinology, Evalional Institute of Technology warangar

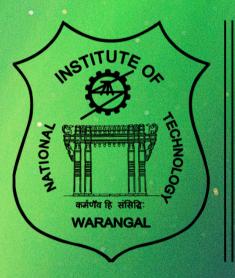
		Title:Biodegradation of POPs from sewage sludge using combined bio
		and nanotechnology in bioreactors.
		Oral Presentation Session – 7
		Biotechnology-2
		(Chairperson: Dr.K.Narasimhulu and Dr. Thyageswar Chandran NIT
		Warangal)
OP 71	16.10-16.20	Radhakrishnan R, Somashekar K, Department of Biotechnology, Bannari
		Amman Institute of Technology, Sathyamangalam, Erode, Tamil Nadu, India.
		Pincode - 638401
		Title: Chimeric multi-epitope vaccine against Mayaro virus - An
		immunoinformatic approach
OP 72	16.20-16.30	Moni Philip Jacob K, Department of Biotechnology, Bannari Amman Institute
		of Technology, Sathyamangalam, Erode, Tamil Nadu, India. Pincode - 638401
		Title: Immunoinformatics Aided Multi-epitope Based Vaccine Design
		Against Crimean-Congo Virus
OP 73	16.30-16.40	Lilly M. Saleena, Jithin S. Sunny, Department of Biotechshobanology, SRM
		Institute of Science and Technology, SRM Nagar, Kattankulathur, 603203,
		Kanchipuram, Chennai TN, India
		Title: SPEdit: A sequence repository and a random forest classification
		based analysis platform for industrially relevant thermophilic serine
		protease
OP 74	16.40-16.50	Akash-Samuel, Department of Biotechnology, School of Bioengineering, SRM
		Institute of Science and Technology, Kattankulathur, Tamil Nadu, India.
		Title: Carvacrol Induces Apoptosis via Caspase Activation in HL-60
		human leukemia cells.
OP 75	16.50-17.00	Mohammad. Momina Shanwaz, Perugu Shyam, Department of
		Biotechnology, National Institute of Technology Warangal
		Title: Insilico analysis of biologically active plant products against cancer
		causing agents.
OP 76	17.00-17.10	Kumari Rhaeva, Abhinav Kumar, Department of Biotechnology, College of
		Engineering and Technology IILM Academy of Higher Learning, Greater Noida,
		Uttar Pradesh-201306, India
		Title: Diversity in alpha satellite associated with cl cu v and it's potential
		application
OP 77	17.10-17.20	Bikash Kumar Rajak and Dr. Durg Vijay Singh, Molecular modelling and
		Computer-Aided Drug Discovery Laboratory, School of Earth Biological and
		Environmental Sciences, Central University of South Bihar, Panchanpur Gaya,
		Bihar (824236)
		Title: Identification of lead molecule against Acetyl-CoA carboxylases of
		Phalaris minor
OP 78	17.20-17.30	Kandula Ramanaiah, Department of Mechanical Engineering, VR Siddhartha
		Engineering College, Vijayawada-520 007, India
		Title: Experimental investigation of tensile properties of wood-Poly lactic
		acid biocomposites developed via 3D printing

OP 79	17.30-17.40	Shobha, Department of Biotechnology, Faculty of Engineering & Technology,
		Manav Rachna International Institute of Research & Studies, Faridabad, India.
		Title: Phytochemicals in Anticancer Drug Development - A Green
		Approach
OP 80	17.40-17.50	Kiran Kumar. A, Department of Bioinformatics, Central University of South
		Bihar, Gaya, Bihar 824236 India
		Title: Classification of Transient and Permanent Protein-Protein
		Interactions (PPI) using machine learning approaches: Implications for
		biologics design
OP 81	17.50-18.00	Mounika Sarvepalli, Department of Biotechnology, National Institute of
		Technology Warangal, Telangana, India
		Title: Isolation of Catecholate siderophore from novel marine bacterium
		Marinobactersp. SVU3
OP 82	18.00-18.10	Paramjeet Saroj, Department of Biotechnology, National Institute of
		Technology Warangal Telangana 506004
		Title: Optimization of cellulase production from Aspergillus fumigatus
		using alkaline pre-treated rice and wheat straw under submerged
		fermentation
OP 83	18.10-18.20	Harshdeep Rana, Saswata Goswami, Center of Innovative and Applied
		Bioprocessing (CIAB), Sector-81, Knowledge City Mohali-140306, India
		Title: preparation of legnocellulosic nanofibrils from horticultural waste:
		a step towards "waste to wealth
OP 84	18.20-18.30	Korrapati Narasimhulu
		Department of Biotechnology, National Institute of Technology, Warangal
		Title: Role of Metabolic Engineering in the Synthesis of Plant Secondary
OD of	40 20 40 40	Metabolites
OP 85	18.30-18.40	K. Narasimhulu¹* and Y. Ravi Kumar²
		Department of Biotechnology, National Institute of Technology Warangal
		² Department of Mechanical Engineering, National Institute of Technology
		Warangal Titles Integrated 4D and 3D Biographics applications in home tissue
		Title: Integrated 4D and 3D Bioprinting applications in bone tissue
OP 86	18.40-18.50	engineering Thupurani Murali Krishna ^{1*} , Konakanchi Srilekha ¹ K. Narasimhulu ²
01 00	10.40-10.50	Department of Biotechnology, Chaitanya (Deemed to be University),
		Kishanpura, Hanamkonda
		² Department of Biotechnology, National Institute of Technology, Warangal
		Title: Cytotoxicity and Bioavailability of Diaylheptanoids isolated from
		Garuga pinnata Roxb
	1	0 1

Abstracts of National Conference on Biological, Biochemical, Biomedical, Bioenergy, and Environmental Biotechnology

Editors

- Korrapati Narasimhulu
- Thyageshwar Chandran





NCB⁴EBT-2021 29-30 January, 2021

Organized by Department of Biotechnology National Institute of Technology Warangal Telangana State, India

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