

Institutional Distinctiveness

Creation and dissemination of knowledge in prioritized research areas of health, energy and environment – training in rural area with global competencies

Yogi Vemana University, Kadapa, established by virtue of an act of Andhra Pradesh State Legislature in 2006 and has been on the forefront to promote value-based education, qualitative research and yeoman societal services. All the three domains have received sufficient attention; the university in pursuit of excellence continues to adhere healthy standards to ensure quality in the cherished realms of teaching, research and service.

Since its inception, University is committed to encourage its faculty who already demonstrated expertise in their chosen fields on par with international standards to involve in inter-disciplinary and cross-disciplinary approach towards research in emerging areas of societal interest. As a priority, University placed strong emphasis on knowledge creation and dissemination in the frontier areas of physical and life sciences with a specific focus on health, energy and environment. In this prioritized research, several departments viz Biotechnology, Biochemistry, Biotechnology & Bioinformatics, Microbiology, Genetics & Genomics, Environmental Sciences, Botany, Zoology, Materials Science & Nanotechnology, Chemistry, and Physics are involved. Dedicated efforts made in this direction by the faculty attracted 48 research projects with grants to the tune of 1026 lakh rupees (10.26 crores) from the various elite funding agencies like UGC/DST/DBT/CSIR/ISRO/APCOST/MNRE/MoES etc. during the last five years. With the continuous research focus, University received funding under RUSA scheme and procured most advanced research equipments such as Scanning Electron Microscopy (SEM), Polarimeter, Nano-drop, FT-IR spectrometer, Gas Chromatograph (GC), Electrochemical Workstation etc. The vibrant research activities of University faculty attracted several accolades both nationally and internationally. Notable among are 650 scientific publications in various high impact journals, 6 patents (international-1, and national-5), 37 MOUs in the last five years. With the sustained efforts in the above mentioned prioritized research, the faculty members received prestigious fellowships like Alexander von Humboldt (AvH), UGC-



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Raman, Ramanujan, DST-Young Scientist, and status of top 2% scientists in the world. Nine faculty members secured the status of top 10000 influential scientists of India based on Alper – Doger Scientific Index - 22 which analyses the scientific performance and the added value of the scientific productivity of individual scientists based on h-index and i-10 index. Further, four teachers bagged scientist awards from Andhra Pradesh Council for Science and Technology (APCOST).

University continuously nurtures the talents of students and provides sufficient training to make them globally competent. It is worthy to mention that apart from trained Post Graduate students equipped with employability skills, Ph D awardees with the proven expertise in the above mentioned research areas from the University received good number of national and international fellowships from India, USA, South Korea, Europe, Middle East, etc. About 60% of students who pursued Ph D programme in these research domains are from rural background and economically weaker sections indicating the University's commitment to train students with global standards. PG students from the varsity secured admission into Ph D programmed in various institutes of repute like IITs, IISERs, Central Universities etc signifying the University commitment towards students training. University is fortunate to welcome many scholars of repute during this five year period to share their expertise in the research domain mentioned. Notable among are Prof. A. Ramachandra Reddy of Hyderabad Central University, Prof. Satyanarayana of Indian Institute of Technology, Tirupati, Prof. B. J. Rao, Director, IISER-Tirupati, Prof. I. Eswara Moorthy, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bengaluru, Dr. CH. Mohan Rao, Ex-Director, Center for Cellular and Molecular Biology (CCMB), Prof. A. Krishna Prasad, Nizam's Institute of Medical Sciences (NIMS), Hyderabad, Prof. E. Balaram of IISER-Tirupati etc have delivered scintillating talks in the focused distinctive research area.

In the NIRF ranking the university stood 101 to 150 rank band. The university has been recognized as a member of National Rural Entrepreneurship Mission by the Mahatma Gandhi National Council of Rural Education, Ministry of Education, Government of India for establishing Rural Entrepreneurship Development Cell. ISO: 9001: 2015, 14001:2015 certificates are issued for the institutions which comply with the standards of Quality Management System.

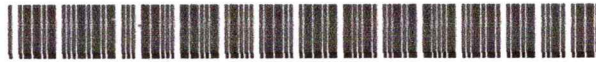


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Further, the university organized refresher courses and Faculty Development programmes for the benefit of the teachers working across the state and country. During the assessment period the university organized A.P. Science Congress (2018), a prestigious event congregating about 1000 teachers and researchers.

Practicing the best as mentioned above, University got many national appreciations like NIRF rank stand between 101-150 (in the year 2021) and ranking of 96 in the year 2016, and other awards like Green campus award, Biodiversity award, YSR life time achievement award from the Government of Andhra Pradesh, QS i-Gauge award in to the credit.


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US009776162B2

(12) **United States Patent**
Kumari et al.

(10) **Patent No.:** **US 9,776,162 B2**

(45) **Date of Patent:** **Oct. 3, 2017**

(54) **CUO—TiO2 NANOCOMPOSITE PHOTOCATALYST FOR HYDROGEN PRODUCTION, PROCESS FOR THE PREPARATION THEREOF**

(58) **Field of Classification Search**
CPC B01J 21/063; B01J 19/123; B01J 35/06; B01J 23/72; B01J 37/08; B01J 37/342;
(Continued)

(71) Applicant: **Council of Scientific & Industrial Research, New Delhi (IN)**

(56) **References Cited**

(72) Inventors: **Valluri Durga Kumari, Hyderabad (IN); Machiraju Subrahmanyam, Hyderabad (IN); Basavaraju Srinivas, Hyderabad (IN); Gullapelli Sadanandam, Hyderabad (IN); Muthukonda Venkatakrishnan Shankar, Kadapa (IN); Bethanabhatla Syama Sundar, Kadapa (IN); Murikinati Mamatha Kumari, Kadapa (IN); Dharani Praveen Kumar, Kadapa (IN)**

U.S. PATENT DOCUMENTS

2010/0213046 A1* 8/2010 Grimes B01J 35/004
204/157.52
2011/0059378 A1* 3/2011 Chan B01J 37/0203
423/648.1

(Continued)

OTHER PUBLICATIONS

Kumar et al, "Nano-size effects on CuO/TiO2 catalysts for highly efficient H2 production under solar light irradiation," Chem. Comm., 2013, vol. 49, pp. 9443-9445 and Electronic Supplementary Information.*

(Continued)

(73) Assignee: **Council of Scientific & Industrial Research, New Delhi (IN)**

Primary Examiner — Keith Hendricks
Assistant Examiner — Colleen M Raphael

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 201 days.

(74) *Attorney, Agent, or Firm* — Lewis Roca Rothgerber Christie LLP

(21) Appl. No.: 14/459,563

(22) Filed: Aug. 14, 2014

(65) **Prior Publication Data**

US 2016/0045908 A1 Feb. 18, 2016

(51) **Int. Cl.**
B01J 19/12 (2006.01)
B01J 35/00 (2006.01)

(Continued)

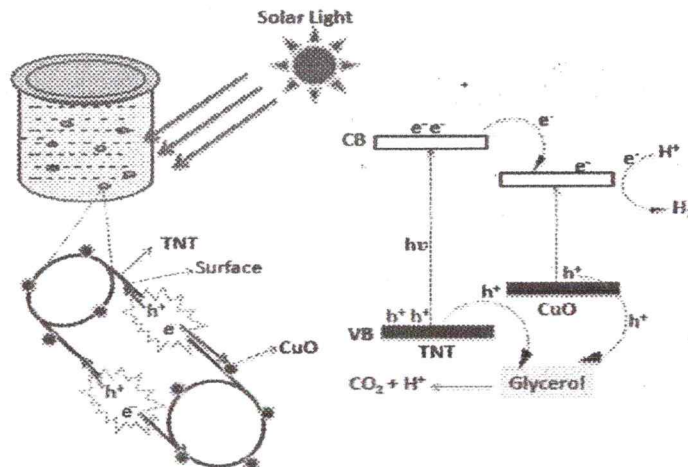
(52) **U.S. Cl.**
CPC **B01J 19/123** (2013.01); **B01J 21/063** (2013.01); **B01J 23/72** (2013.01); **B01J 35/002** (2013.01);

(Continued)

(57) **ABSTRACT**

The present investigation is development of the TiO₂ nanotubes concept of preparation of and their composite with fine dispersion of copper. The inventions also relates to identify a method for optimum amount of photocatalyst required for efficient and maximum hydrogen production reported than earlier (H₂=99,823 μmol·h⁻¹·g⁻¹ catalyst) from glycerol-water mixtures under solar light irradiation. A method is disclosed to produce CuO/TiO₂ nanotubes with high sustainability and recyclable activity for hydrogen production.

2 Claims, 9 Drawing Sheets




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Machine translation

1. (IN2080/DEL/2014) CUO-TIO2 NANOCOMPOSITE PHOTOCATALYST FOR HYDROGEN PRODUCTION, PROCESS FOR THE PREPARATION THEREOF

National Biblio. Data

Documents

PermaLink

Application Number: 2080/DEL/2014 Application Date: 23.07.2014

Publication Number: 2080/DEL/2014 Publication Date: 29.01.2016

Grant Number: 302246 Grant Date: 16.10.2018

Publication Kind : B

IPC: B01J 21/06

Applicants: COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH

Inventors: VALLURI DURGA KUMARI
MACHIRAJU SUBRAHMANYAM
BASAVARAJU SRINIVAS
GULLAPELLI SADANANDAM
MUTHUKONDA VENKATAKRISHNAN SHANKAR
BETHANABHATLA SYAMA SUNDAR
MURIKINATI MAMATHA KUMARI
DHARANI PRAVEEN KUMAR

Priority Data:

Title: (EN) CUO-TIO2 NANOCOMPOSITE PHOTOCATALYST FOR HYDROGEN PRODUCTION, PROCESS FOR THE PREPARATION THEREOF

Abstract: (EN) The present investigation is development of the TiO₂ nanotubes concept of preparation of and their composite with fine dispersion of copper. The inventions also relates to identify a method for optimum amount of photocatalyst required for efficient and maximum hydrogen production reported than earlier (H₂ = 99,823 μmol. h⁻¹ g⁻¹ catalyst) from glycerol-water mixtures under solar light irradiation. A method is disclosed to produce CuO/TiO₂ nanotubes with high sustainability and recyclable activity for hydrogen production.

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ORIGINAL

0280NF2013

FORM 5
THE PATENTS ACT 1970
(39 of 1970)
&
The Patents Rules, 2003
Declaration as to Inventorship'
[See section 10(6) and rule 13 (6)]

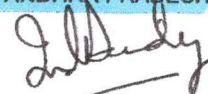
2080 DEL 14
23 JUL 2014

We, Council of Scientific and Industrial Research, Rafi Marg, New Delhi - 110001, India, an Indian Registration body incorporated under the Registration of Societies Act (Act XXI) of 1860)

hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of my/our application no. _____ dated _____ are:

	Name	Nationality	Address
1	VALLURI DURGA KUMARI	IN	Indian Institute of Chemical Technology, Uppal Road, Hyderabad - 500007
2	MACHIRAJU SUBRAHMANYAM	IN	Indian Institute of Chemical Technology, Uppal Road, Hyderabad - 500007
3	BASAVARAJU SRINIVAS	IN	Indian Institute of Chemical Technology, Uppal Road, Hyderabad - 500007
4	GULLAPPELLI SADANANDAM	IN	Indian Institute of Chemical Technology, Uppal Road, Hyderabad - 500007
5	MUTHUKONDA VENKATAKRISHNAN SHANKAR	IN	DEPARTMENT OF MATERIALS, SCIENCE AND NANOTECHNOLOGY, YOGI VEMANA UNIVERSITY, KADAPA, ANDHRA PRADESH
6	BETHANABHATLA SYAMA SUNDAR	IN	DEPARTMENT OF MATERIALS, SCIENCE AND NANOTECHNOLOGY, YOGI VEMANA UNIVERSITY, KADAPA, ANDHRA PRADESH
7	MURIKINATI MAMATHA KUMARI	IN	DEPARTMENT OF MATERIALS, SCIENCE AND NANOTECHNOLOGY, YOGI VEMANA UNIVERSITY, KADAPA, ANDHRA PRADESH
8	DHARANI PRAVEEN KUMAR	IN	DEPARTMENT OF MATERIALS, SCIENCE AND NANOTECHNOLOGY, YOGI VEMANA UNIVERSITY, KADAPA, ANDHRA PRADESH

Dated this 21st day of July, 2014.



Scientist in Charge / (Mrs.) INDRA DWIVEDY
वरिष्ठ प्रधान वैज्ञानिक / Senior Principal Scientist
आर. सी. आर. दिल्ली - 110001
NISCAIR Building, 14, Satsang Vihar Marg, N. Delhi - 67

3. Declaration to be given when the application in India is filed by the applicant (s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s).

Signature
Name of the signatory:-

4. Statement (to be signed by the additional inventor(s) not mentioned in the application form) I/We assent to the invention referred to in the above declaration, being included in the complete specification filed in pursuance of the stated application.

Signature of the additional inventor(s):-
Name:-

To
The Controller of Patents,





UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110002

FD Diary No. **839**
Dated **30-05-2016**

No.F 5-85/2016 (IC)

June, 2016

The Under Secretary (FD-III)
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi-110 002

10 JUN 2016

Subject: Release of Grants-in-aid to **Yogi Vemana University, Vemanapuram, Kadapa -516003, Andhra Pradesh** under **Raman Post Doctoral Fellowship in USA for the year 2015-2016 (Plan)**.

Sir,

I am directed to convey the sanction of the University Grants Commission for payment of grant of **Rs. 19,17,683/- (Rupees Nineteen Lac Seventeen Thousand Six Hundred Eighty Three Only)** to **Yogi Vemana University, Vemanapuram, Kadapa -516003, Andhra Pradesh** towards fellowship grant in respect of **Dr. Ramachandra Reddy Pamuru, Assistant Professor, Department of Biochemistry**, to carry out research at **The Pennsylvania State University, USA**, under Raman Fellowships for Post Doctoral Research in **USA for the year 2015-2016 for a period of 9 Months**.

Name of the Item	Head of Account	Grant now being sanctioned	Grant already sanctioned	Total Grant
Fellowship amount of US \$ 3000 per month for (9 Months)	3(A).39.31	17,88,207/-	--	17,88,207/-
Grant of \$ 1200 to travel within USA		79,476/-	--	79,476/-
Contingency Rs. 50,000/- to cover for visa, airport, transfer, medical insurance		50,000/-	--	50,000/-
Total		19,17,683/-	--	19,17,683/-

- The **sanctioned** amount is debitible under the head of account **3(A).39.31** and is valid for payment during the **financial year 2016-2017** only.
- The amount of the Grant shall be drawn by the EO (DDO) UGC on the Grants-in-aid bill and shall be disbursed to and credited to the **Registrar, Yogi Vemana University, Vemanapuram, Kadapa - 516003, Andhra Pradesh** through Electronic mode as per the following details:

a	Details (Name & Address) of Account Holder	Registrar, Yogi Vemana University, Kadapa Vemanapuram, YSR Dist. A.P. - 03
b	Account No	30484843231
c	Name & address of Bank branch	State Bank of India, Yogi Vemana University Branch, Kadapa, Vemanapuram, YSR Dist. A.P.-03
d	MICR Code	516002006
e	IFSC Code	SBIN 0010109
f	Type of Account	SB

- The Grant is Subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma submitted by the University/Institution.
- The University / Institution shall maintain proper accounts of the expenditure out of the Grants which shall be utilized only on the approved items of expenditure.
- The University / Institution may follow the General Financial Rules, 2005 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2005 and those don't have their own approved manuals on financial procedures may adopt the provisions of GFRs, 2005 and instructions/guideline there under from time to time.
- The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to UGC as early as possible after the close of **current** financial year.


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Founded 1841
Incorporated by Royal Charter 1848
Patron Her Majesty the Queen



THIS IS TO CERTIFY THAT

SHANKAR MUTHUKONDA VENKATAKRISHNAN

HAS BEEN ADMITTED AS A

FELLOW

OF

THE ROYAL SOCIETY OF CHEMISTRY

and is entitled to use the designatory letters FRSC

President

Chief Executive

Date of admission

29 March 2018
Membership Number

650830

The certificate is issued subject to the provisions of the Charter and By-Laws
Registered charity number 207890

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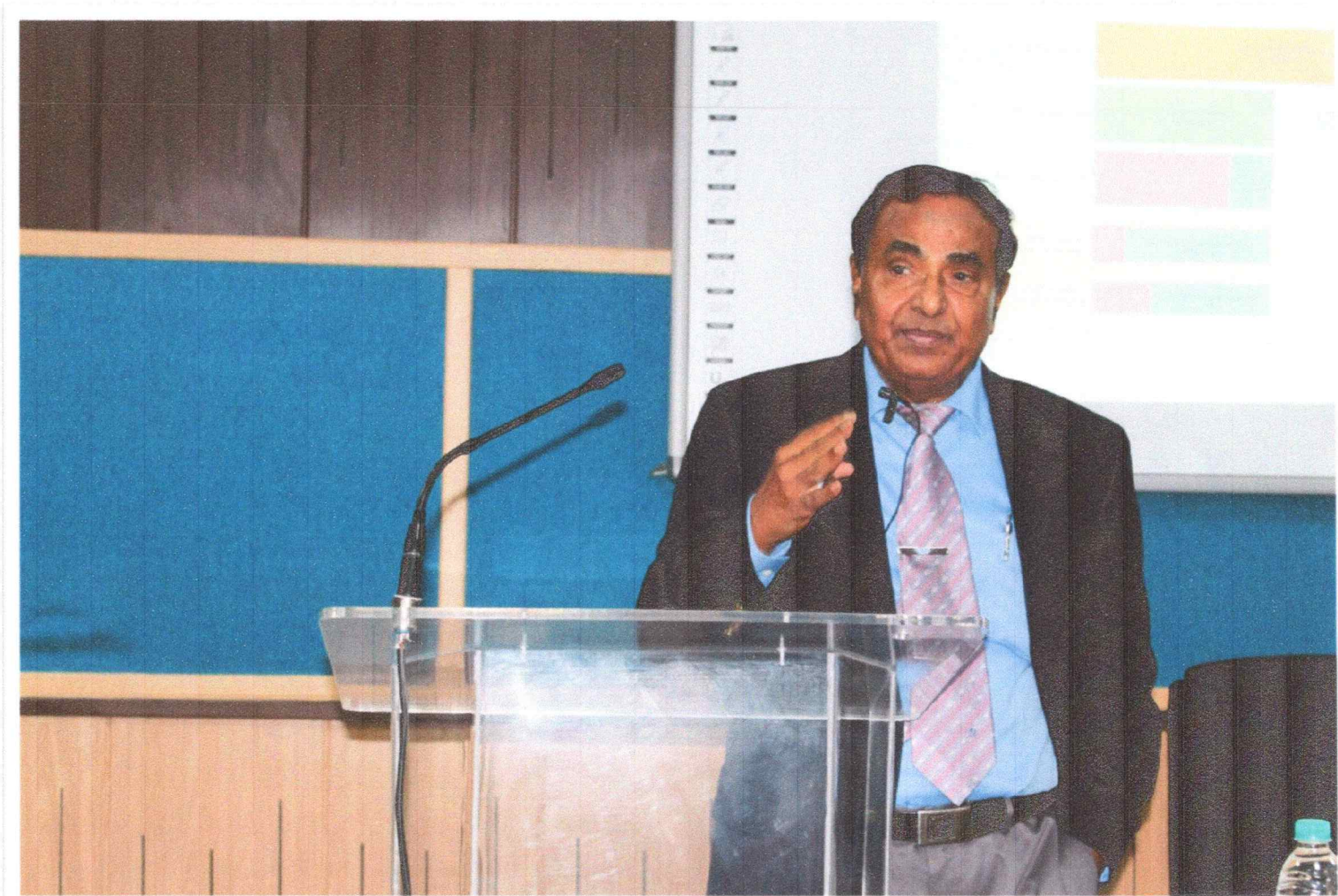
Scanned by CamScanner

Prof. A. Ramachandra Reddy delivering a popular lecture on "Sustainable agriculture in India: Issues and Challenges during A. P. Science Congress Nov, 2018



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Prof. A. Ramachandra Reddy delivering a popular lecture on “Sustainable agriculture in India: Issues and Challenges during A. P. Science Congress Nov, 2018



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Dr. A. V. Ramana Reddy, BARC, Mumbai releasing conference proceedings on “Advances in Chemical Research for Sustainable Developments in Energy, Environment and Pharmaceuticals” during Feb 2020



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Dr. A. V. Ramana Reddy, BARC, Mumbai delivering a key note address on the theme of "Advances in Chemical Research for Sustainable Developments in Energy, Environment and Pharmaceuticals" during Feb 2020



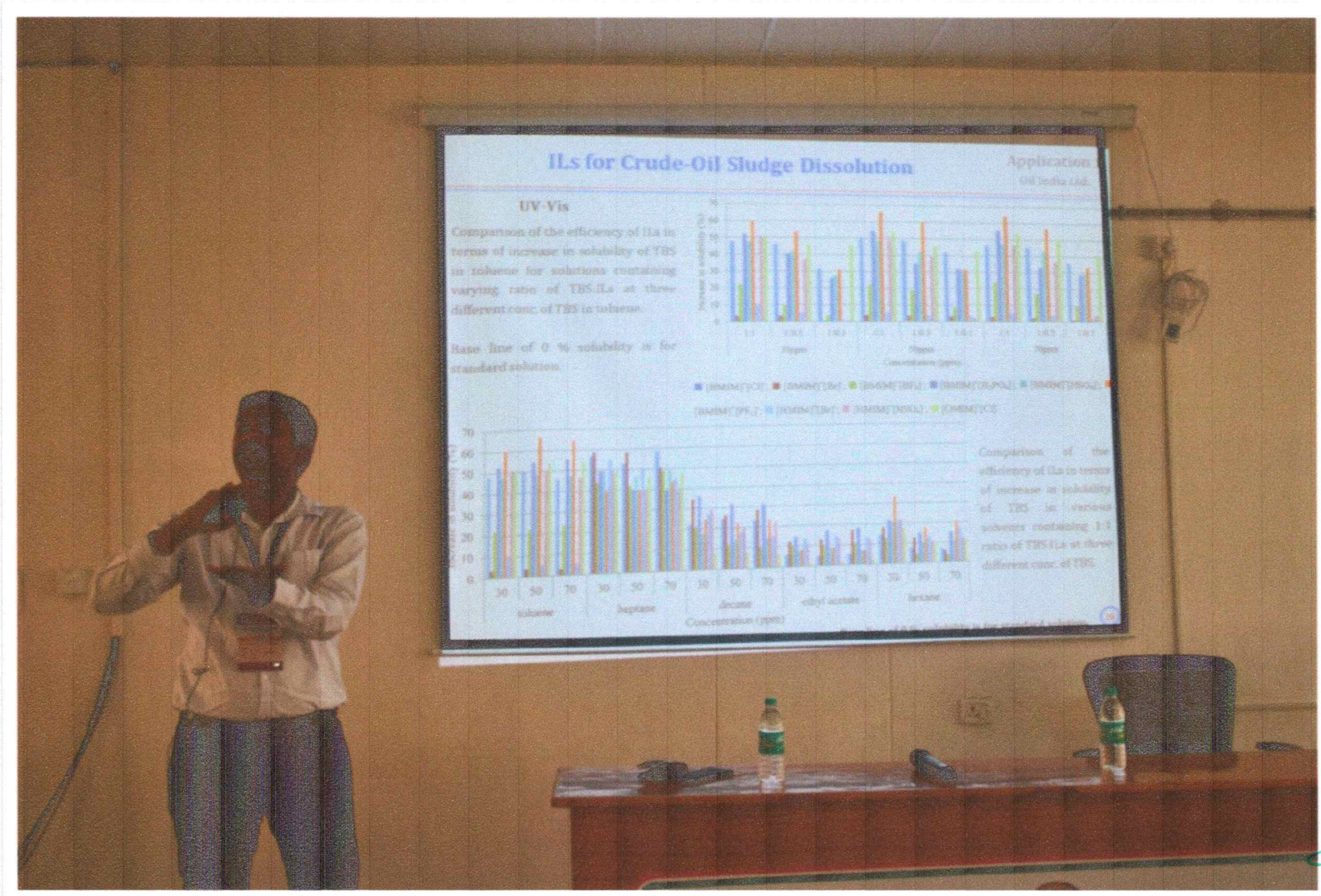

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Dr. Veera Reddy, CEO, Sai Life Sciences, Hyderabad delivering a key note lecture on Research and Development in Pharma Industry during Feb 2020



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Dr. Ramesh L Gardass, Indian Institute of Technology, Madras delivering a popular lecture on Ionic Liquids as Green Solvents A. P. Science Congress, Nov. 2018



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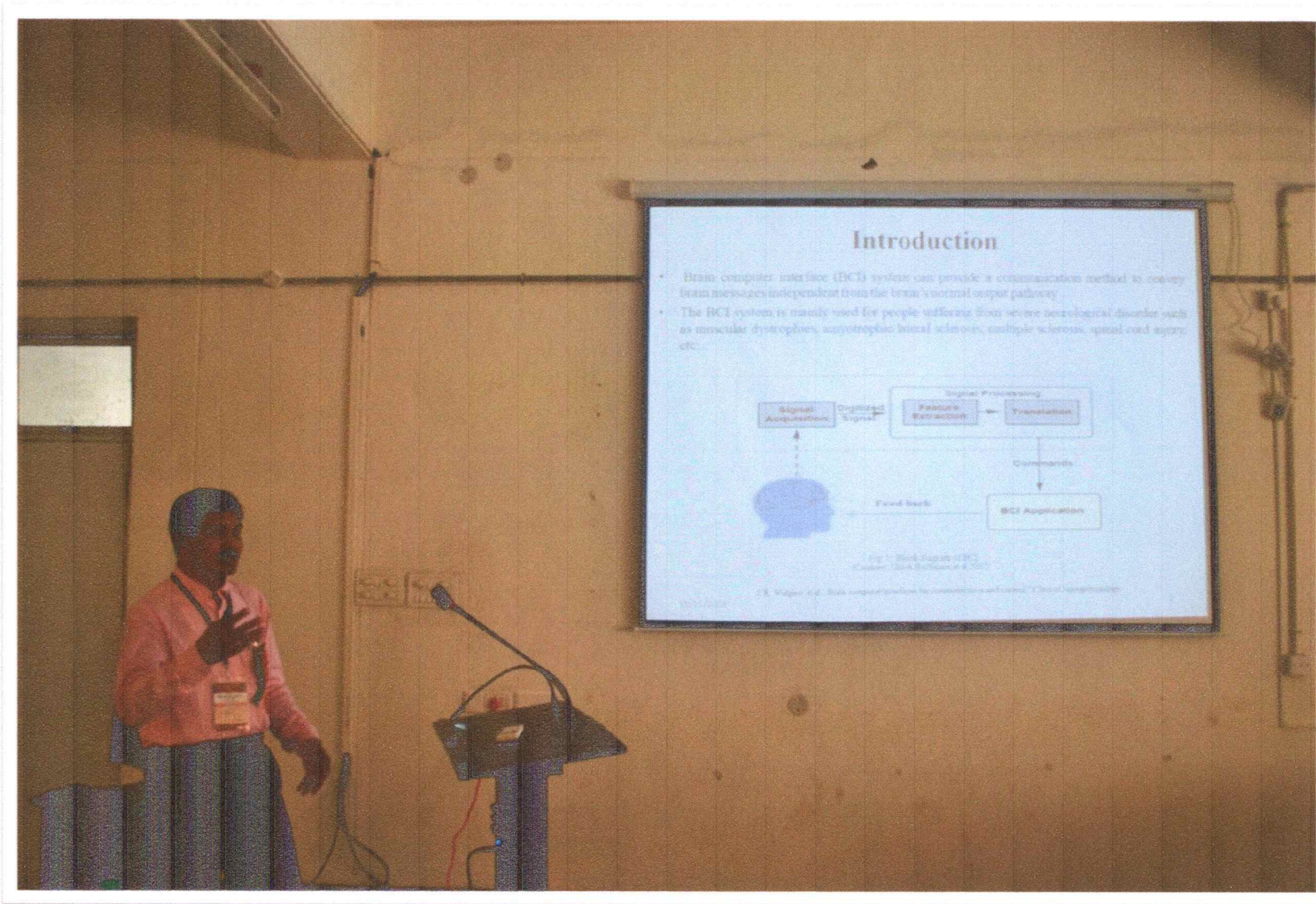
Felicitating Dr. Ramesh L Gardass, Indian Institute of Technology, Madras during
A. P. Science Congress, Nov. 2018



DP

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Prof. Ramakrishna Reddy, Indian Institute of Technology, Madras delivering a popular lecture on Brain Computer Interface during A. P. Science Congress, Nov. 2018




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Dr. B. Ramachary, University of Hyderabad speaking during A. P. Science Congress -
2018



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Prof. Attipalli Ramachandra Reddy, Hon'ble Vice-Chancellor speaking on the theme Women and Science during A. P. Science Congress – 2018 (Prof. Vengamamba of Sri Venkateswara Institute of Medical Sciences, Tirupati and Prof. M. C. Subha, Incharge Vice-Chancellor of S. K. University, Ananthapur graced the occasion)



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Felicitating Prof. Raghavendra, University of Hyderabad during A. P. Science Congress, Nov. 2018 after a talk on research trends in life sciences.



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Prof. Reddanna, University of Hyderabad, delivering a popular lecture on World of Eicosanoids: the Regulators of Cellular Homeostasis during A. P. Science Congress, Nov. 2018



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Dr. B. Ramesh Babu of BogaR Laboratories delivering a popular lecture on Innovative Science and Opportunities: Newer Trends of Drug Discovery during A. P. Science Congress, Nov. 2018



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Dr. Lakshmi Parvathi, Chairperson, A. P. Telugu & Sanskrit Akademi visited the University
on Telugu Basha Dinotsavam (Telugu Language Day)



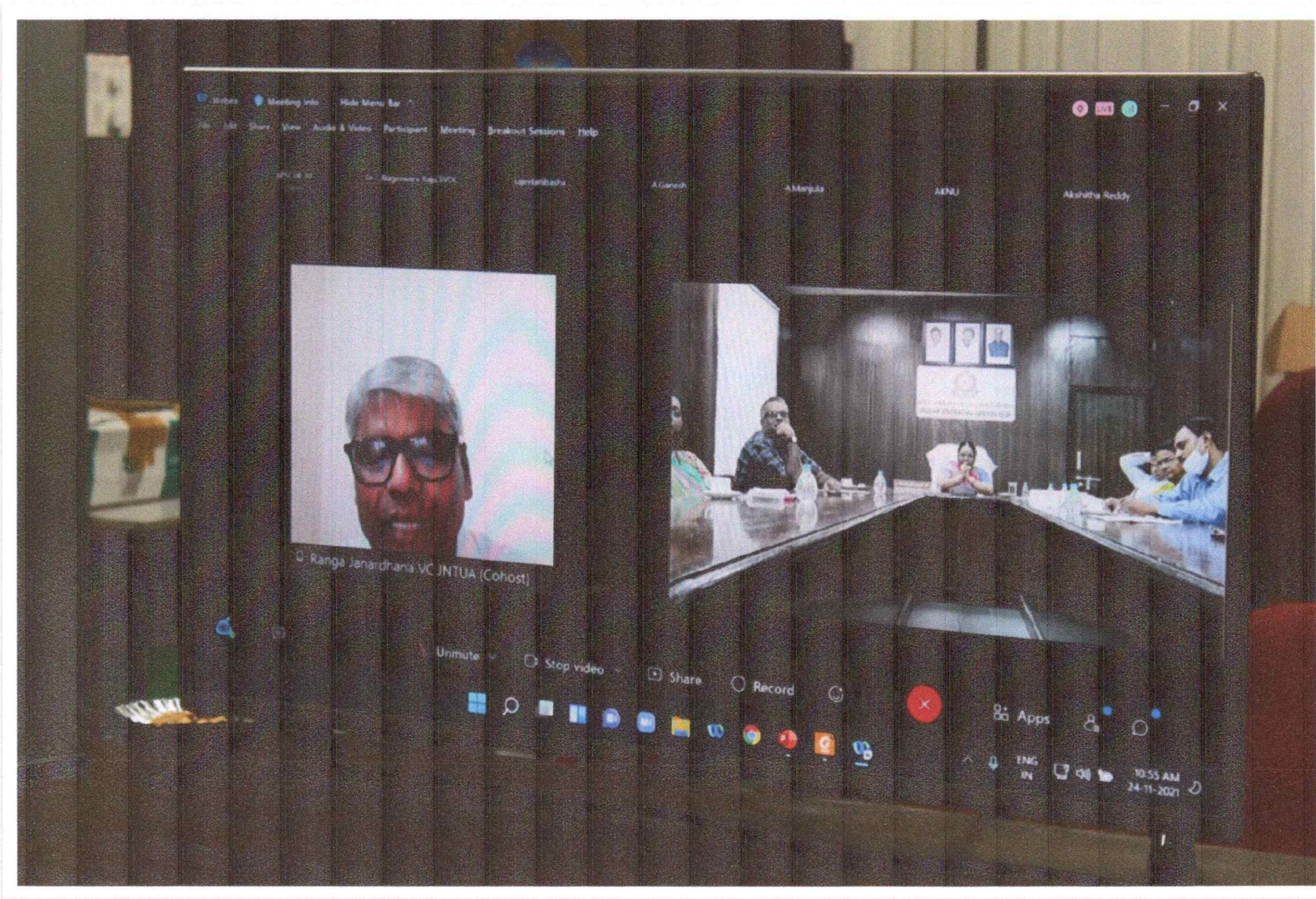

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Webinar on the theme “Research and Developmental Activities in Higher Education” in association with Andhra Pradesh State Council of Higher Education, Amaravathi, A. P. during Oct 2021




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Prof. Ranga Janardhana, Vice-Chancellor, JNTUA speaking on the theme “Research and Developmental Activities in Higher Education” in association with Andhra Pradesh State Council of Higher Education, Amaravathi, A. P. during Nov. 24, 2021



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Date of Issue : 2021.05.

CERTIFICATE

Brain Pool Program

This is to certify that the following person has been selected as a "Brain Pool(BP) program" invited scientist by the National Research Foundation of Korea (NRF).

Name in Full : Navakoteswara Rao Vempuluru

Date of Birth : 1990.05.14.

Grant No. : 2021H1D3A2A02081839

Host Institution in Korea : National Nanofab Center

Research Title : Research on exciton separation and the property mechanisms in ternary nanocomposite based photocatalyst for enhanced hydrogen efficiency

Program Duration : 2021.07.01 ~ 2023.12.31

Roe, Jung-Hye

President,

National Research Foundation of Korea



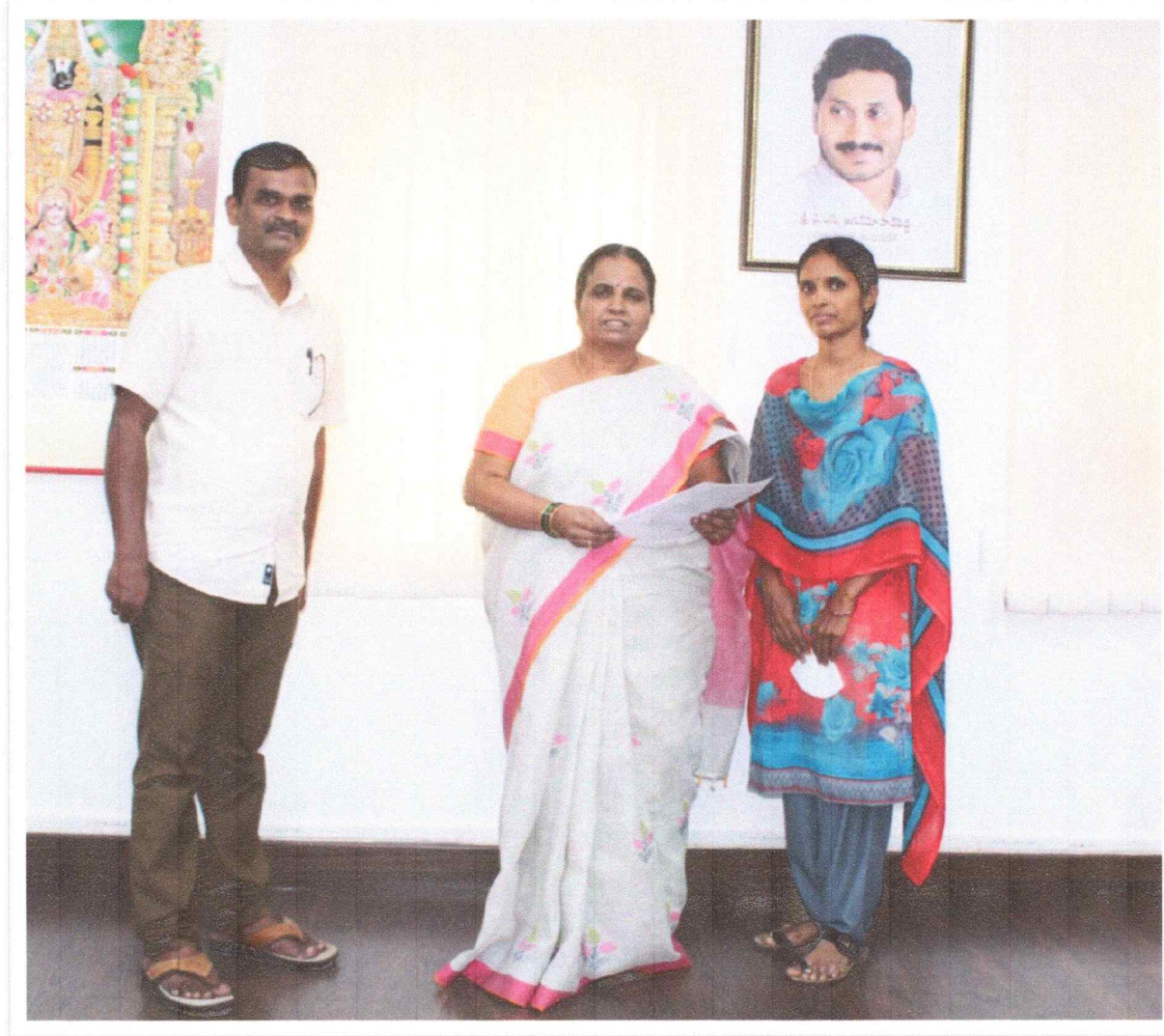
National Research Foundation of Korea(NRF)

Headquarters : 165 Gajeong-ro, Yuseong-gu, Daejeon 305-350, Korea Tel +82 42 869 6114 Fax +82 42 869 6777

Seoul Office : 25 Heolleungno, Seocho-gu, Seoul 137-748, Korea Tel +82 2 3460 5500


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Prof. Reddanna, University of Hyderabad, delivering a popular lecture on World of Eicosanoids: the Regulators of Cellular Homeostasis during A. P. Science Congress, Nov. 2018




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DST/WOS-B/ER-7/2021(G)
Government of India
Ministry of Science & Technology
Department of Science & Technology
(WISE-KIRAN Division)

Technology Bhawan,
New Mehrauli Road
New Delhi - 110016
Dated: 15.11.2021

ORDER

Sub: Financial approval of WOS-B project proposal entitled "Financial approval of the project proposal title "Designand development of high performance, stable, cost-effective perovskite solar cells with upconverter and study its proto-type module advancement" for the duration of 36 months.

PI: Ms. Meenakshamma Ambapuram , Yogi Vemana University, Vemanapuram, Kadapa-516005, Andhra Pradesh.

Sanction of the President is hereby accorded to the above-mentioned project at a total cost of **Rs. 19,38,258/- (Rupees Nineteen Lakh thirty eight thousand two hundred fifty eight only)** to Yogi Vemana University, Vemanapuram, Kadapa, Andhra Pradesh for a duration 36 months. The detailed breakup of the grant towards General Components and Capital Assets are given below:

General Component: Rs. 17,78,299/-
Capital Component: Rs. 1,59,959/-
Total : Rs.19,38,258/-

Detailed breakup of the total grant towards above WOS-B project for 36months duration is given below:

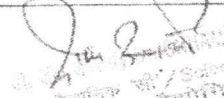
Sl. No.	Heads	1st Year (Rs.)	2nd Year (Rs.)	3rd Year (Rs.)	Total (Rs.)
A.	Non-Recurring (Capital Items)				
	Equipment Cost	1,59,959	-----	-----	1,59,959
B.	Recurring (REC)(General)				
	Recurring -I	3,72,000	3,72,000	3,72,000	11,16,000
	a. Fellowship @ Rs 31,000/- p.m. for 36 months				
	b. HRA @8%	29,760	29,760	29,760	89,280
	Recurring -II (Consumables, Other Costs and Travel)	1,20,000	1,20,000	1,20,000	3,60,000
	Recurring -III (Contingencies)	25,000	25,000	25,000	75,000
C.	Recurring -IV (Overhead @:8%)	52,000	52,000	34,019	1,38,019
D.	Total of Recurring Grant (B+C)	5,98,760	5,98,760	5,80,779	17,78,299
E.	GRAND TOTAL (A+D)	7,58,719	5,98,760	5,80,779	19,38,258

2. While providing operational flexibility amount various sub-heads under head Recurring-II, it should be ensured that not more than Rs. 75,000/- should be spent for Travel in 3 years.

3. The sanction of the President is also accorded to the release of **Rs. 5,98,760/- (Rupees Five Lakh ninety eight thousand seven hundred sixty only)** under 'General component' and **Rs. 1,59,959/- (Rupees One lakh fifty nine thousand nine hundred fifty nine only)** under Capital Assets as the first installment of grant for implementation of the above-mentioned project.

4. The amount of **Rs7,58,719/- (Rupees Seven Lakh fifty eight thousand seven hundred nineteen only)** will be drawn by the Drawing and Disbursing Officer, Department of Science and technology (DST) and will be disbursed to Yogi Vemana University, Vemanapuram, Kadapa, Andhra Pradesh through RTGS for account details as given below:

Institution Account Name	Yogi Vemana University
Bank Account Number	30484843231
Name of Bank	State Bank of India
Branch Name	YVU Branch
RTGS/IFSC Code	SBIN0010109


विज्ञान विभाग/ Scientist 'C'
विज्ञान और प्रौद्योगिकी विभाग
DEPT. OF SCIENCE & TECHNOLOGY
नए दिल्ली-110016 / Govt. of India
नई दिल्ली-110016 / New Delhi-110016

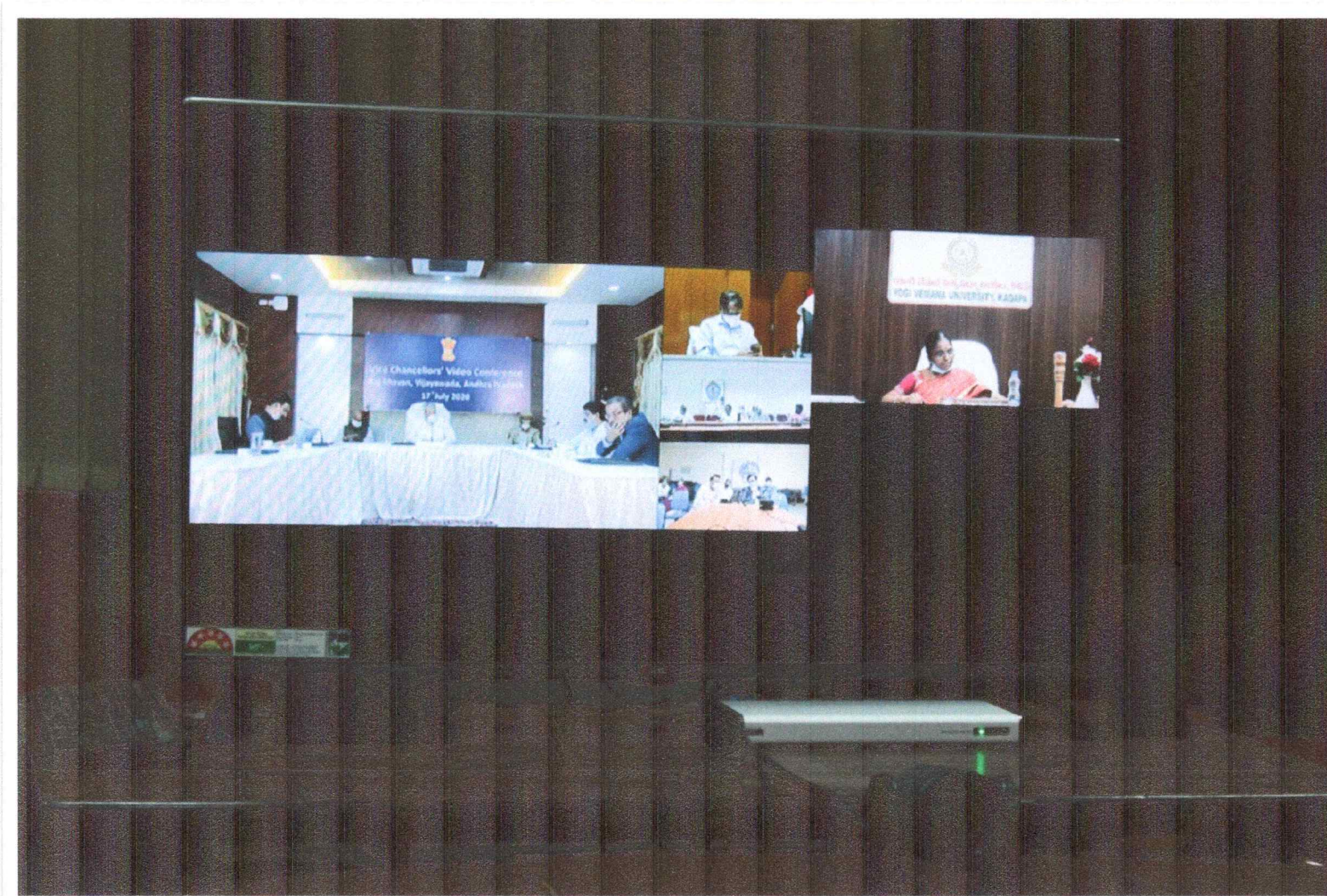

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Yogi Vemana University entered into MOU with Coromandel, Hetero Drugs, Aurobindo pharma for students training in chemical research



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Hon'ble Vice-Chancellor, Yogi Vemana University presenting research, educational activities during Vice-Chancellors Video Conference of Hon'ble Governor of Andhra Pradesh.



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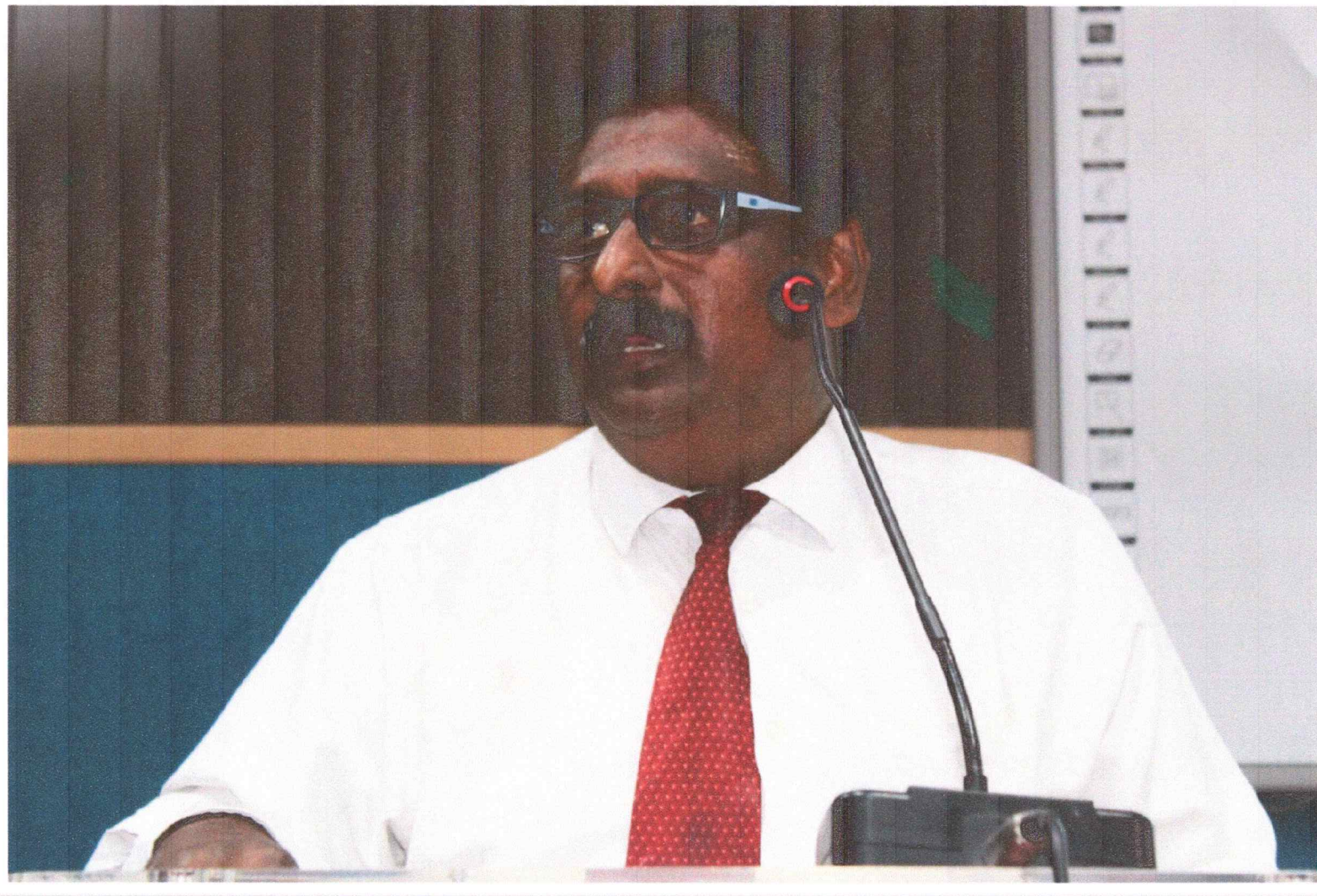
REGISTRAR
YOGI VEMANA UNIVERSITY
KADAPA-516 005.

Prof. A. Ramachandra Reddy delivering keynote address on the eve of National Science Day Celebrations on 28th February 2020




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KADAPA-516 005.

G. Manohar, A. P. Skill Development Corporation addressing the students on Skill Development



DF

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KADAPA-516 005.

Students listening to Dr. G. Manohar, A. P. Skill Development Corporation on Skill Development



REGISTRAR
YOGI VEMANA UNIVERSITY
KADAPA-516 005.

Hon'ble Vice-Chancellor addressing the students on Skill Development in association with
A. P. Skill Development Corporation



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YOGI VEMANA UNIVERSITY
KADAPA-516 005.

Prof. V. H. Rao of Sri Venkateswara Veterinary University, Tirupati delivering a popular lecture on Feb 24th & 25th Feb 2020 during a conference conducted in Y. V. University



REGISTRAR
YOGI VEMANA UNIVERSITY
KADAPA-516 005.



International E-Conference on New Horizons in "Biochemistry, Microbiology and Food Technology - 2020"

Jointly Organized by

Yogi Vemana University & Universiti Malaysia Kelantan

(Dept. of Biochemistry & Microbiology, YVU, India and Faculty of Agro-based Industry, UMK, Malaysia)

(12th & 13th October, 2020)



UNIVERSITI
MALAYSIA
KELANTAN

About Conference:

Welcome to the International E-Conference on New Horizons in Biochemistry, Microbiology and Food Technology - 2020 (BMFT - 2020). The conference will be held online (Webex/Zoom) from 12th & 13th October, 2020. BMFT-2020 intends to provide a platform for scientists, researchers and students to exchange knowledge, challenges, recent advances and future perspectives in the multidisciplinary areas of Biochemistry, Microbiology and Food Technology. Both international and national pioneer researchers deliver keynote and plenary talks.

Chief patrons

Prof. M. Surya Kalavathi
Vice Chancellor, YVU

Prof. Dato' Ts. Dr. Noor Azizi Bin Ismail
Vice Chancellor, UMK

Patrons

Prof. Mohd Rafi Yacob
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Dean, FIAT, UMK

Prof. G. Sambasiva Reddy
Principal, YVU College

Organising Secretaries

Dr. P. Ramachandra Reddy
Dr. L. Veeranjanya Reddy
Dr. Mohammed Arifullah

Organizing Committee

Prof. D. Vijaya Raghava Prasad
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Dr. D. Vijaya Lakshmi
Dr. M. Subhosh Chandra
Dr. Kumara Thevan Krishnan
Dr. Khomaizon Binti Abdul Kadir Pahirul Zaman
Dr. Khairiyah Binti Mat
Dr. Ikarastika Rahayu Binti Abdul Wahab

Keynote/Invited Speakers

Prof. Nasib Qureshi
Biochemical Engg., ARS-USDA, USA
Prof. T.A. Narasa Raju
School of Med., Oklahoma State Univ., USA

Prof. P. Sreenivasula Reddy
Dept. of Zoology, SVU, Tirupati, India
Prof. K. Anu Appaiah
Dept. of M&FT, CFTRI, Mysore, India
Prof. V. K. Joshi

CSIR Consultant, New Delhi, India
Dr. K. Mallikarnuna
Dept. of Sports Sci., NJGYU, China
Dr. Ch. Kishore Kumar

Dept. of Biochemistry and Biophysics,
Univ. of North Carolina, CH, USA
Dr. K. Madhusudhana Rao
Dept. of Nanotechnology, YNU, S. Korea
Dr. C.V. Suresh

Dept. of Biotechnology, AIMST, Malaysia
Dr. Narasimha Kumar Karanam
UT Southwestern Medical Center,
Dallas, USA

Dr. Mukhtar Ahmed
King Saud University, Riyadh, KSA
Prof. K.N.S. Sirajudeen
UIA, Malaysia

Dr. Darukeshwara Joladarashi
Houston Methodist Hospital,
Houston, TX, USA

Call for Abstracts:

Authors are invited to submit original papers on topics related to the conference scope. All accepted abstracts will be published in the 'Conference E-Abstract Book'. Last date for submission of Abstracts - **09.10.2020.**

E-mail: iecbmft2020@gmail.com

Themes:

- Analytical Biochemistry
- Medical Microbiology
- Industrial Microbiology
- Immunology
- Physiology
- Agriculture Biotechnology
- Food and Nutrition
- Biosensors, Bio-Diagnostics, Biochips, Nanotechnology
- Aquaculture, Fisheries Science
- Genetics
- Bioenergy
- Animal Biotechnology
- Plant Biotechnology

E-certificates will be provided for the participation, presentation (oral /e-poster). Free Registration link:

https://docs.google.com/forms/d/e/1FAIpQLSfvG47Z_Yxfab9sT3d4SAxiorNyE75ZPNSy36oB29NM2n-2PgdSTw

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KADAPA-516 005.



International E-Conference on New Horizons in

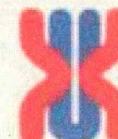
"Biochemistry, Microbiology and Food Technology - 2020"

Jointly Organized by

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(Dept. of Biochemistry & Microbiology, YVU, India and Faculty of Agro-based Industry, UMK, Malaysia)

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Dr. Khairiyah Binti Mat
Dr. Ikarastika Rahayu Binti Abdul Wahab

Keynote/Invited Speakers

Prof. Nasib Qureshi
Biochemical Engg., ARS-USDA, USA
Prof. T.A. Narasa Raju
School of Med., Oklahoma State Univ., USA
Prof. P. Sreenivasula Reddy
Dept. of Zoology, SVU, Tirupati, India
Prof. K. Anu Appalaih
Dept. of M&FT, CPTRI, Mysore, India
Prof. V. K. Joshi
CSIR Consultant, New Delhi, India
Dr. K. Mallikarnuna
Dept. of Sports Sci., NJGYU, China
Dr. Ch. Kishore Kumar
Dept. of Biochemistry and Biophysics, Univ. of North Carolina, CH, USA
Dr. K. Madhusudhana Rao
Dept. of Nanotechnology, YNU, S. Korea
Dr. C.V. Suresh
Dept. of Biotechnology, AIMST, Malaysia
Dr. Narasimha Kumar Karanam
UT Southwestern Medical Center, Dallas, USA
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- Bioenergy
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https://docs.google.com/forms/d/e/1FAIpQLSfvfG472_Yxfab9qT3d45Axi0rNyE75ZPN5y36oB29NM2

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11:15 - 12:00 pm	PLENARY SPEECH – 5 Dr. Jay Prakash Verma Banaras Hindu University, India. Title: PGPR and phytomicrobiome for enhancing sustainable agriculture
12.00 – 12.30 pm	PLENARY SPEECH – 6 Dr. Risyawati Mohamed Ismail Universiti Utara Malaysia(UUM),Kedah, Malaysia Title: Assessment of antibacterial capability of <i>Entada spiralis</i> extract on selected bacteria
12.30 – 1.00 pm	PLENARY SPEECH – 7 Dr. Santhosh Valeja, Scientific Manager, Biocon Ltd., Bangalore Title: Hydrogen/Deuterium Exchange, Supercharging and Top-down Analysis of Complex Mixtures, MAbs, ADCs – Method Developments and Applications.
Break 3.30 – 4.00PM (1.00 – 1.30 pm)	
SESSION 4	
Chairperson: Dr. P. Ramachandra Reddy Co-chairperson: PM Dr. Seri Intan Binti Mokhtar	
1:30 - 2:15 pm	KEYNOTE SPEECH – 7 Prof. P. Sreenivasula Reddy Dept. of Zoology, SVU, Tirupati, India Title:
2:15 - 2:45 pm	PLENARY SPEECH -8 Dr. K. Suresh Kumar Dept. of Applied Chemistry, SVNIT, Surat, India Title: Nanomaterials in bioanalytical applications: Detection, Imaging and Drug delivery
2:45 - 3:15 pm	PLENARY SPEECH – 9 Dr. Wee Seng Kew Universiti Malaysia Kelantan, Malaysia Title: Iron-reducing-bacteria from South China Sea Marine Environments
3.15 – 3.30 pm	Break
3:30 – 5.00 pm	Oral/E-Poster Session Panel members: Chairperson: Dr. P. Ramachandra Reddy, Dr. L. Veeranjanya Reddy, Dr. Mannur Ismail Shaik and Shaik Ibrahim Khalivulla
Oral/E-Poster Presentations Abstract book OP (Oral Presentation) 36-54 EPP (E-Poster Presentation) 41-80	
5:00 -5:30 pm	Valedictory Speech: Prof. D. Vijaya Raghava Prasad, Registrar, YVU, Kadapa, India Prof. G. Samba Siva Reddy, Principal, YVU, Kadapa, India PM Dr. Seri Intan Binti Mokhtar, Universiti Malaysia Kelantan Closing Ceremony: Vote of Thanks: Dr. L. Veeranjanya Reddy



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Lunch Break	
CONFERENCE TECHNICAL SESSION 2	
Chairperson: Dr. D. Vijayalakshmi	
Co-chairperson: Dr. Kumara Thevan Krishnan	
2:00 - 2:45 pm	KEYNOTE SPEECH – 3 Prof. V. K. Joshi Retd. Professor, Department of Food Science Technology, Dr.Y.S. Parmar University, Solan, H.P., India Title: Microbiology and biochemistry in food processing, stainability, quality, health, and safety: a perspective
3:00 - 3:30 pm	PLENARY TALK – 2 Dr. K. Madhusudhana Rao Yeungnam University, South Korea Title: Polysaccharide based polyelectrolyte complex hydrogels for biomedical applications
3:30 - 4:00 pm	PLENARY TALK – 3 Dr. C.V. Suresh Department of Biotechnology, AIMST University, Malaysia Title:
4:15 - 7:00 pm	Oral/E-Poster presentations Panel members: Chairperson: Dr. P. Ramachandra Reddy, Dr. L. Veeranjanya Reddy, Dr. Mannur Ismail Shaik and Shaik Ibrahim Khalivulla
Oral/ E-Poster Presentations	
Abstract book	
OP (Oral Presentation) 11-35	
EPP (E-Poster Presentation) 1-40	
DAY 2: 13 October 2020 (TUESDAY)	
CONFERENCE TECHNICAL SESSION 3	
Chairperson: Dr. Arifullah Mohammed	
Co-chairperson: Dr. Ikarastika Rahayu Binti Abdul Wahab	
8:15 - 9:00 am	KEYNOTE SPEECH – 4 Dr. Narasimha Kumar Karanam UT Southwestern Medical Center, Dallas, USA Title: Tumor Treating Fields: New modality of cancer therapy
9:00 – 9:30 am	PLENARY SPEECH – 4 Dr. Darukeshwara Joladarashi, Ph. D Department of Cardiology Houston Methodist Hospital Houston, Texas, USA Title: Strategies to Improve Stem Cell Functions: Role of microRNA
9:30 – 9:45 am	BREAK
9:45 - 10:30 am	KEYNOTE SPEECH – 5 Prof. K. Anu Appaiah Department of Microbiology & Fermentation Technology, CFTRI, Mysore, India Title: Is Waste Management a Sustainable Alternate Livelihood
10:30 - 11:15 am	KEYNOTE SPEECH – 6 Dr. Mukhtar Ahmed King Saud University, Riyadh, KSA Title: Electron Microscopy and its Applications in Agro - Based Industry


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IECBMFT-2020

International E-Conference on New Horizons in
Biochemistry, Microbiology and Food
Technology – 2020



UNIVERSITI
MALAYSIA
KELANTAN

Date: 12 – 13 October 2020

DAY 1: 12 OCTOBER 2020 (MONDAY)	
SESSION 1	
OPENING CEREMONY	
9:00 – 9:05 am	Welcome Address by Dr. P. Ramachandra Reddy
9:05 – 9:30 am	Opening Remarks by Prof. M. Surya Kalavathi Vice Chancellor, Yogi Vemana University, Kadapa, A.P., India Prof. Dato' Ts. Dr. Noor Azizi Bin Ismail Vice Chancellor, Universiti Malaysia Kalanthan, Prof. Nik Marzuki Bin Sidik , Dean, FIAT, UMK Launching of IECBMFT-2020 Abstract Book
CONFERENCE TECHNICAL SESSION 1	
Chairperson: Dr. L. Veerananjaneya Reddy Co-chairperson: Dr. Khairiyah Binti Mat	
9:30 – 10:30 am	KEYNOTE SPEECH – 1 Prof. Nasib Qureshi Dept. of Biochemical Engineering, ARS-USDA, USA & Prof. Thaddeus Ezeji Dept. of Animal Science and Ohio State Agricultural and Development Center (OARDC), Ohio State University (OSU), USA Title: Past, Present, and Future of Bioenergy: An Example of Butanol with special reference to Intellectual Property Rights
10:30 – 10:45 am	Coffee break
10:45 – 11:30 am	KEYNOTE SPEECH – 2 Prof. T.A. Narasa Raju School of Medicine, Oklahoma State University, USA Title: Influenza Virus Pathogenesis – Therapy
11:30 – 12:00 pm	PLENARY TALK 1 Prof. K.N.S. Sirajudeen Kulliyah of Medicine, IIUM, Malaysia, Malaysia Title: Tualang Honey Action on Experimentally Induced Excitotoxicity
ORAL PRESENTATION SESSION A	
Panel of Evaluators Chairperson: Dr. M. Subhosh Chandra Co-chairperson: Dr. Khomaizon Binti Abdul Kadir Pahirul Zaman	
12:00 – 1:30 pm	Oral Presentations Abstract book OP (Oral Presentation) 1-10

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Yogi Vemana University

QS-ERA India Pvt Ltd has, through rigorous and independent data collection and analysis against performance metrics as set out in the QS I-GAUGE methodology, awarded Yogi Vemana University with a Gold University Rating

GOLD

QS I-GAUGE is a custom-designed rating system for Indian universities and colleges. It provides Indian Institutions with an opportunity to effectively benchmark their current performance in order to inform strategies for upgrading their educational services and all-round institutional performance.

Teaching and Learning	GOLD
Faculty Quality	GOLD
Employability	SILVER
Student Diversity	BRONZE
Facilities	DIAMOND
Social Responsibility	GOLD
Accreditation	DIAMOND
Entrepreneurship	GOLD
Research	DIAMOND

Date of Issue: 19 February 2019

Valid Till: 19 February 2022

Ashwin Fernandes
CEO, QS-ERA India Pvt Ltd

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KADAPA-516 005

Yogi Vemana University received QS-iGauge rating



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GOVERNMENT OF ANDHRA PRADESH
ANDHRA PRADESH STATE BIODIVERSITY BOARD

International Day for Biological Diversity -2019



INTERNATIONAL DAY
for
**BIOLOGICAL
DIVERSITY**
Our Biodiversity,
Our Food, Our Health
22 MAY 2019

Certificate

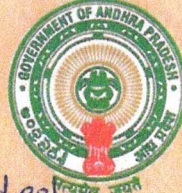
This is to certify that Mr. / Ms. ***Dr. A. Madhusudana Reddy***, Asst. Professor, Dept. of Botany, Yogi Vemana University is bestowed with "***Biodiversity Conserver Award***" under Individual Category for Working for the Cause of Biodiversity Conservation on the Eve of "***International Day for Biological Diversity - 2019***" held on ***22nd May, 2019*** at Vijayawada.



Member Secretary
A.P. State Biodiversity Board

Chairman
A.P. State Biodiversity Board

1619



Govt. of Andhra Pradesh - Forest Department
ఆంధ్రప్రదేశ్ ప్రభుత్వం - అటవీ శాఖ

వై.యస్.ఆర్. కడప జిల్లా

ప్రశంసా పత్రము

Vanam - Manam

జిల్లాలో వనం - మనం (ఊరంతా వనం - ఆరోగ్యంగా మనం) కార్యక్రమంలో చురుకుగా పాల్గొని పచ్చదనం పెంపునకు

Dr. A. Madhusudana Reddy

సహాయ సహకారము, కృషి చేసినందులకు గాను శ్రీ డా|| మధుసూదన్ రెడ్డి అవని

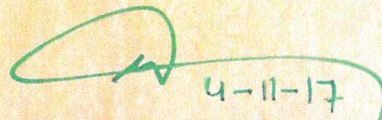
Yogi Venkanna University

యోగి వెంకన్న విశ్వవిద్యాలయము గారికి ప్రధానం చేయబడిన ప్రశంసాపత్రము.


బి. సాగరాజు, M.Sc., M.Phil.
 డివిజనల్ అటవీశాఖాధికారి

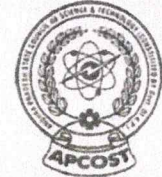





 4-11-17
డా|| టి. బాబురావునాయుడు, I.A.S.
 కలెక్టరు మరియు జిల్లా మేజిస్ట్రేటు.



GOVERNMENT OF ANDHRA PRADESH
Andhra Pradesh State Council of Science & Technology (APCOST)
Vijayawada.



Andhra Pradesh Scientist Awards
(APSA - 2020)



Dr. M. V. Shankar, Professor, Yogi Vemana University, Y. S.

R. Kadapa, is awarded with the **ANDHRA PRADESH SCIENTIST AWARD**

- **2020** for his contributions in the field of Nanotechnology.

Member Secretary
APCOST

Secretary
EFS & T - Govt. of A.P.

Hon'ble Minister
EEFS & T - Govt. of A.P.



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GOVERNMENT OF ANDHRA PRADESH
Andhra Pradesh State Council of Science & Technology (APCOST)
Vijayawada.



Andhra Pradesh Scientist Awards
(APSA - 2020)



Dr. V. Sunitha, Associate Professor, YVU, Y. S. R. Kadapa, is
awarded with the **ANDHRA PRADESH SCIENTIST AWARD - 2020** for her
contributions in the field of Geology.

Member Secretary
APCOST

Secretary
EFS & T - Govt. of A.P.

Hon'ble Minister
EEFS & T - Govt. of A.P.



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GOVERNMENT OF ANDHRA PRADESH
Andhra Pradesh State Council of Science & Technology (APCOST)
Vijayawada.




Andhra Pradesh Scientist Awards
(APSA - 2020)



Dr. N. Venkata Rami Reddy, Assistant Professor, Yogi Vemana
University, Y. S. R. Kadapa, is awarded with the **ANDHRA PRADESH**
SCIENTIST AWARD - 2020 for his contributions in the field of Zoology.


Member Secretary
APCOST


Secretary
EFS & T - Govt. of A.P.


Hon'ble Minister
EEFS & T - Govt. of A.P.



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GOVERNMENT OF ANDHRA PRADESH
ANDHRA PRADESH STATE COUNCIL OF SCIENCE & TECHNOLOGY (APCOST)
VIJAYAWADA, AMARAVATHI.



Andhra Pradesh Scientist Award-2017



*Dr. K. Lalitha, Yogi Vemana University, Kadapa is awarded
 with the Andhra Pradesh State Scientist Award-2017 for her
 contributions in the filed of Social Sciences.*

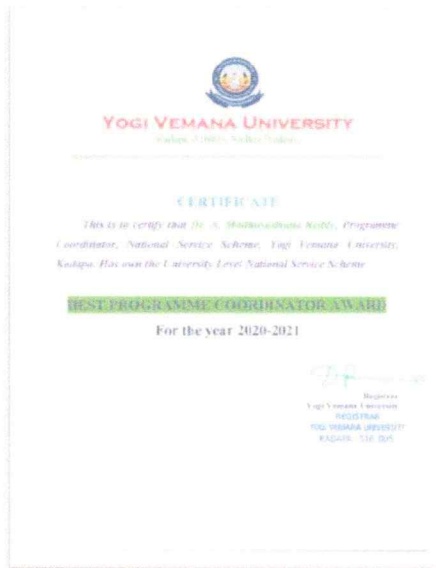
Member Secretary
 APCOST

Principal Secretary
 EFS&T - Govt. of A.P.

Hon'ble Minister
 EFS&T - Govt. of A.P.

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Awards and Recognitions



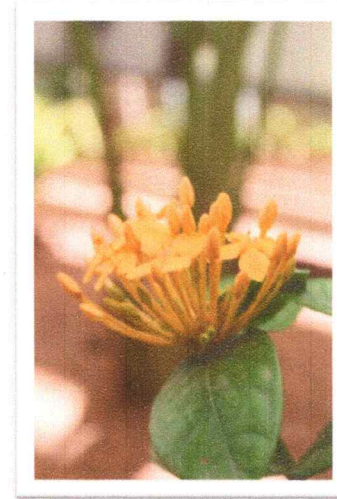
DP

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YOGI VEMANA UNIVERSITY
KADAPA-516 005.

Blooming of Flowers during the month of October 2018



Adenium Obesum



Chinese ixora –
Orange and Yellow Colour



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KADAPA-516 005.