



VISION GROUP ON SCIENCE & TECHNOLOGY

Government of Karnataka

and



MANGALORE UNIVERSITY

(NAAC Accredited 'A' Grade)

One-day Regional Workshop for College Teachers

on

Frontier Areas in Biological Sciences

INAUGURATION

On Saturday, 13th January 2018

Dr. S. G. Sreekanteswara Swamy

VGST, Govt. of Karnataka

will be the Chief Guest

Prof. Cletus D'Souza

Rtd. Prof., Dept. of Biochemistry, University of Mysore

Dr. Sheeba Vasu

Assoc. Prof., Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru

Dr. T. S. Keshav Prasad

Prof. & Dy. Dir., Yenepoya Centre for Systems Biology and Molecular Medicine

will be the Guests of Honour

Prof. K. Byrappa

Vice-chancellor, Mangalore University

will preside

You are cordially invited

Prof. Boja Poojary

Co-coordinator, Mangalore University

Prof. Monika Sadananda

Co-ordinator, Mangalore University

Prof. B. S. Nagendra Prakash

Registrar, Mangalore University

Dr. A. L. Muralidhara

Scientific Officer, VGST, Govt. of Karnataka

Venue : Old Senate Hall, Science Block, Mangalore University Campus Time : 10.00 AM

Jointly organised by :

**Vision Group on Science & Technology, Government of Karnataka
Mangalore University, Mangalagangothri**



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VALEDICTORY

On Saturday, 13th January 2018

Shri. Udayashankar H.

Joint Director of Collegiate Education, Mangalore, Govt. of Karnataka
will be the Chief Guest

Dr. N. C. Tharavathy

Chairperson, Department of Biosciences, Mangalore University
will preside

You are cordially invited

Prof. Boja Poojary

Co-coordinator, Mangalore University

Prof. Monika Sadananda

Co-ordinator, Mangalore University

Prof. B. S. Nagendra Prakash

Registrar, Mangalore University

Dr. A. L. Muralidhara

Scientific Officer, VGST, Govt. of Karnataka

Venue : Old Senate Hall, Science Block, Mangalore University Campus Time : 4.30 PM

Jointly organised by :

**Vision Group on Science & Technology, Government of Karnataka
Mangalore University, Mangalagangothri**

**Govt. of Karnataka Vision Group Science & Technology
and
Mangalore University**

**One-day Regional Workshop for College Teachers
on**

"Frontier Areas in Biological Sciences"

Old Senate Hall, 13th January 2018

Schedule of Lectures / Presentations

9:00 – 10:00 am	Registration
10:00 – 10:30 am	Inauguration
10:30 - 11:30 am	Session I – Dr. Sheeba Vasu, Faculty Fellow, JNCASR, Bengaluru <i>Time, flies and the Nobel Prize</i>
11:30 – 11:45 am	Tea break
11:45 – 12:45 pm	Session II - Prof. Cletus D'Souza, Emeritus Professor, Dept. of Biochemistry, University of Mysore & Adjunct Faculty, Mangalore University <i>Are wrong concepts in nutrition the cause of our sickness?</i>
12:45 – 1:45 pm	Session III – Dr. T. S. Keshav Prasad, Prof. & Dy. Dir., Yenepoya Centre for Systems Biology and Molecular Medicine <i>Functional proteometabolomics approaches to discover biomolecular networks</i>
1:45 – 2:15 pm	Lunch Break and Poster Session
2:15 – 3:30 pm	Presentations by VGST grantees 1. Dr. C. Vaman Rao, Prof. & Head, Dept. Biotechnology Engineering, NMAM Institute of Technology Production of Bioethanol from underutilized lignocellulosic residues (VGST Scheme - Center of Innovative Science in Engineering Education - CISEE) 2. Dr. Kundbala M., Prof., Dept. of Conservative Dentistry and Endodontics, Manipal College of Dental Sciences Effectiveness of dental health education program using digital aids in dental clinics 3. Dr. Khalid P., P.A. College of Engineering, Carbon Nanotubes Reinforced Hydroxyapatite Composites for Biomedical Application 4. Dr. Suchetha Kumari Shetty, Prof., Dept. of Biochemistry, K.S. Hegde Medical Academy Molecular screening of Polycystic Ovary Syndrome (PCOS) in Dakshina Kannada 5. Dr. S. Balaji, Assoc. Prof., Dept. of Biotechnology, Manipal Institute of Technology Three-dimensional literacy of biomolecules 6. Dr. Prasad P., Prof. & Head, Dept. of Nano Technology, Srinivas Institute of Technology, Mangalore Biosynthesis of Nanoparticles and the Investigation on the Properties of polymer/blend-nano composites for biomedical applications

	7. Dr. Vishwanatha, Dept. of Biotechnology & Microbiology, SDM Centre for Research in Ayurveda and Allied Sciences Screening of plants used in Folklore medicine for Drug Standardization 8. Dr. Premalatha Shetty, Prof. Dept. of Biotechnology & Microbiology, SDM College of Ayurveda Cytotoxicity and Genotoxicity Studies to Screen Natural Products for their Potential as Detoxifying agents (K-FIST LII (FY 2016-17) 9. Dr. J.G. Manjunatha, Asst. Prof., Dept. of Chemistry, Field Marshal KM Cariappa College A novel sensitive electrochemical method for the determination of mitoxantrone anticancer drug at surfactant modified carbon nanotube paste electrode 10. Dr. Surendra U. Kamath, Prof., Dept. of Orthopedics, KMC, Mangalore Study of acoustic dynamics and volumetric flow analysis of arterial perforators by Doppler ultrasound and its quantification by computer simulations.
3:30 – 3:45 pm	Tea break
3:45 – 4:30 pm	Presentations by VGST grantees contd... 11. Dr. Mamatha K.V.G. SDM College of Ayurveda and Hospital Management of pelvic inflammatory disease with Ayurvedic formulations 12. Dr. K. Jyothi Damodara, Prof. & Head, Dept. of Chemistry, St Joseph Engineering College Synthesis, structural and electrochemical studies of some nitrogen and sulfur-containing potential pharmaceutical heterocyclic derivatives 13. Mrs. Rituparna Chakraborty Sr. Gr. Lecturer, Dept. of Microbiology, MMMC, Enteric Diseases Division, Central Research Lab, MAHE <i>Clostridium difficile</i> infection in hospitalized patients with diarrhea in Manipal 14. Ms. Anusha Prabhu, Research Scholar, Dept. of Biotechnology, MAHE Detection of <i>Candida albicans</i> pathogenic dual switching using Paper-based Analytical Devices (PADS for <i>Candida</i>) 15. Dr. K. R. Chandrashekhar, Prof., Dept. of Applied Botany, Mangalore University Studies on endemic and RET species – Conservation and bioprospecting (CESEM) 16. Dr. C. S. Shastry, Principal, NGSM Institute of Pharmaceutical Sciences, Derlakatte Phytochemical and neuropharmacological evaluation of <i>Crataeva nurvala</i> Buch-Ham against cognitive dysfunctions
4.30 – 5:00 pm	Valedictory and Concluding remarks
5:00 pm	High tea

ALL ARE CORDIALLY WELCOME

REPORT OF VGST REGIONAL WORKSHOP ON FRONTIER AREAS IN BIOLOGICAL SCIENCES HELD AT MANGALORE UNIVERSITY ON 13th Jan 2018

Vision Group on Science and Technology (VGST), Department of IT, BT, S&T, Government of Karnataka, conducted a One-day Regional Workshop for College Teachers on Frontier Areas in Biological Sciences. The Workshop was jointly organized by VGST, Bangalore and Mangalore University, and held on 13th January 2018 at Old Senate Hall, Mangalore University. The aim of this Workshop was to bring college teachers abreast with recent developments in the fast-moving field of biological sciences and to motivate and enable them to engage in research activities.



Dr. S.G. Sreekanteswara Swamy, Consultant of VGST, Government of Karnataka, was the Chief Guest at the Inaugural Function which was presided over by Prof. A. M. Khan, Registrar (Evaluation), Mangalore University.



Three invited talks were delivered on the occasion. Dr. Sheeba Vasu, Associate Professor, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bengaluru spoke on Clocks, Flies and the Nobel Prize relating the research work that led to the Nobel Prize in Physiology being

conferred to three scientists from the realm of Circadian biology and how the humble fruit fly led to many of the very phenomenal discoveries over the last few decades.



Prof. Cletus D'Souza, Emeritus Professor, University of Mysore spoke on the role of lipids in health and disease, with particular emphasis on the misnomers that exist with regard to lipid intake.



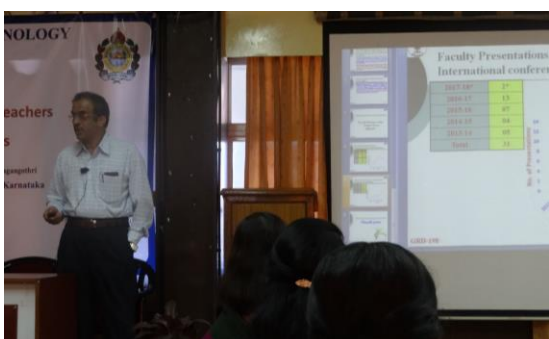
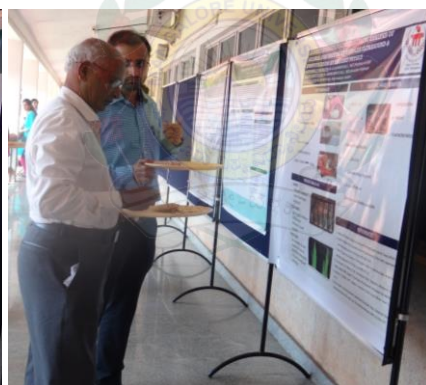
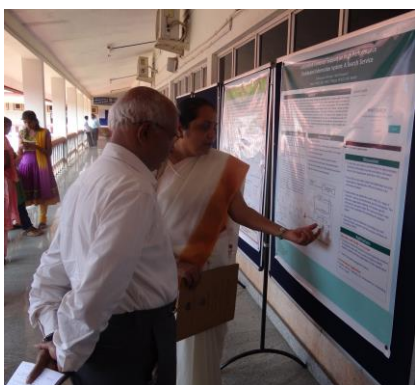
Dr. Keshava Prasad T.S., Deputy Director and Professor Yenepoya Centre for Molecular Medicine and Systems Biology spoke on the realm of omics with particular emphasis on how proteomics is studied using mass spectroscopy and outlined various methods that can be used to detect modifications in proteins.

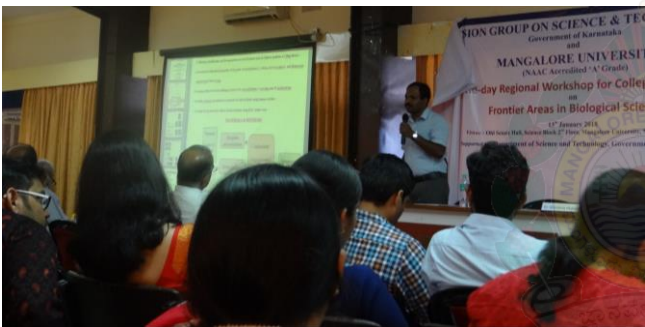


Over 85 Biological Science teachers from 20 colleges in Dakshina Kannada, Udupi and Madikere districts and units of Mangalore University participated. Through this Workshop it is hoped that recent advances and techniques in basic and applied biological sciences will reach and benefit the students through their teachers.



20 VGST Project Coordinators/Grantees from 17 institutions, including medical, dental, pharmaceutical and engineering colleges presented their projects either via POSTER OR ORAL PRESENTATIONS.







In the evening, the Valedictory function was presided over by Dr. N. C. Tharavathy, Chairperson, Department of Biosciences, Mangalore University. Dr. S. G. Sreekanteswara Swamy, Consultant, VGST, Government of Karnataka gave his concluding remarks.

Feedback from the Participants:

1. Participants were of the opinion that VGST was encouraging research by providing grants, and that more youngsters should apply for such grants.
2. Participants expressed that the grants have contributed enormously to research at the undergraduate and postgraduate levels and that students have been able to use the equipment for their project work. It has led to visible increase in Student placements and in tangible increase in Faculty publications.
3. Participants were of the opinion that a JRF / Research Fellows should also be sanctioned under the project, so that they would be able to do their research work and submit a PhD thesis. This would contribute to human resource development

The program came to a close with final remarks by Dr. A. L. Muralidhara, Scientific Officer-VGST. Local Coordinators were Prof. Monika Sadananda and Prof. Boja Poojary of Mangalore University.