



Sri Devaraj Urs Academy of Higher Education and Research
Comprising Sri Devaraj Urs Medical College
(A Deemed to be University)
Research and Development Cell

Central Ethics Committee Re-registered under CDSCO -Registration No. ECR/425/Inst/KA/2013/RR-20 dated 28.4.2020

National Scientific Conclave on Translational Research
Catalyzing Innovations: Translating Discoveries into Clinical Practice

Organized by
Research and Development Cell,
SDUAHER, Tamaka, Kolar
Scientific Report

Day 1: 13th February 2024

Session -1

Event: Invited Scientific talk

Time: 9.45 AM to 10.45AM

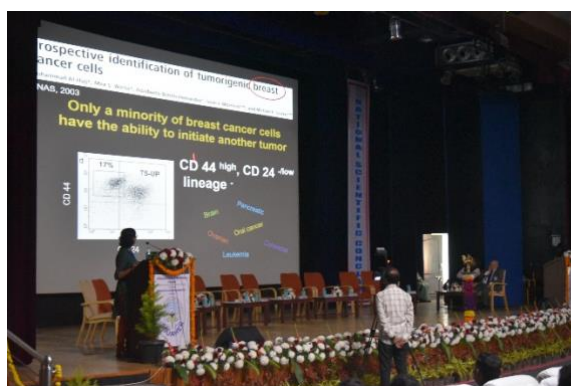
Speaker: Dr. Annapoorni Rangaraj, Professor, IISc Bangalore

Topic: Cancer and stem cell: Lessons from each other

Chairpersons:

Dr. Gopinath. KS
Director
Dept. of R.L. Jalappa Institute of Oncology
SDUAHER, Kolar

Dr. Mithesh Shetty
Professor of Practice
Dept. of Cell Biology & Molecular Genetics
SDUMC, Kolar



The speaker highlighted some of the following points:

- An appreciation of the similarities between cancer cells and stem cells brought about a paradigm shift in our understanding of cancer initiation, progression, and treatment.

- It led to the proposal of the stem cell theory of cancer which predicts that cancer originates in the normal adult stem cells that are otherwise essential for the maintenance of our body.
- The speaker emphasized that her laboratory has been need to study the origin and biology of cancer stem cells with specific focus on developing more efficacious strategies for cancer treatment.

Event: Inaugural function

Time: 10.45 AM to 11.45 AM



The following dignitaries graced the function:

Chief Guest:

Dr. C N Manjunath

Former Director, Sri Jayadeva Institute of Cardiovascular Science and Research, Bangalore

Other Invited guests:

Dr. M Vijaykumar, Hon'ble Vice Chancellor, Yenepoya University, Mangalore

Dr. S Sacchidanand, Executive Director SMCRI, Tumakuru.

Guests of Honour:

Sri. G H Nagaraja, Hon'ble Chancellor, SDUAHER

Sri. J Rajendra, Vice President, SDUET

Sri. K G Hanumantha Raju, Secretary, SDUET

Sri. Rajesh N Jagadale, Trustee, SDUET

Presided by:

Dr. Vengamma B, Hon'ble Vice Chancellor, SDUAHER

Dr. S Chandrashekhar Shetty, Advisor, SDUAHER

Dr. D V L N Prasad, Registrar, SDUAHER

Dr. Prabhakar K, Principal, SDUMC and Dean, FoM, SDUAHER

Dr. C D Dayanand, Dean, FAH&BS, SDUAHER

Dr. Krishnappa J, Medical Superintendent, RLJH & RC

Dr. Kalyani R, Director, R & D Cell, SDUAHER

Other Dignitaries



- The inaugural function started with an Invocation
- This was followed by lamp lighting by dignitaries
- Preamble of the Conference was given by Dr. Prabhakar K, Dean, FoM, SDUAHER
- Dr. D V L N Prasad, Registrar of the Academy welcomed all the dignitaries on the stage and also introduced the chief guest.
- Dr. C N Manjunath, the chief guest, addressed the gathering by highlighting the importance of translational research.
- All the dignitaries released the Souvenir
- Dr. B Vengamma, Hon'ble Vice Chancellor, SDUAHER and Dr. S Chandrashekhar Shetty, Advisor, SDUAHER addressed the gathering
- Dr. Kalyani R, Director, R & D Cell, SDUAHER gave vote of thanks

Event: Keynote address

Time: 12.00 Noon to 1.20 PM

Speaker: Dr. S Sacchidanand, Executive Director SMCRI, Tumakuru.

Topic: Translational Research - Need of the hour



The following points were highlighted by the speaker:

- Translational research is interdisciplinary by nature, drawing on insights from diverse fields such as biology, medicine, engineering, social sciences, and public health.
- It emphasizes collaboration between researchers, clinicians, policymakers, industry partners, and community stakeholders to ensure that scientific discoveries translate into meaningful improvements in health outcomes and quality of life.
- Translational research is the need of the hour, as research envisaged should benefit through its practical application to mankind. More and more research will lead to invention of better drugs, better therapeutic and diagnostic equipment and quality healthcare delivery.
- Initiatives to train and mentor the next generation of translational researchers are crucial for sustaining momentum in this field.
- Establishing dedicated translational research centers and providing incentives for researchers to engage in translational activities can help nurture a vibrant ecosystem of innovation and entrepreneurship

-----1.30 PM to 2.10 PM – Lunch break-----

Session 2

Event: Invited Scientific talk

Time: 2.15 PM to 3.00 PM

Speaker: Prof. Nallur B Ramachandra, Chairman, Department of Studies in Genetics and Genomics University of Mysore, Mysore

Topic: Genetics Analysis of Driver Mutations in Multiple Myeloma

Chair persons:

Dr. Sampath Kumar
Consultant
Dept. of Surgical Oncology
SDUMC, Kolar

Dr. Prabhakar. K
Professor of Medicine, Principal, SDUMC & Dean Faculty of Medicine,
SDUAHER, Kolar



The speaker highlighted the following points:

- Identifying mutations in genes and pathways in Multiple Myeloma (MM) is crucial to elucidate its pathophysiology.
- The speaker highlighted on how they analyzed the Whole exome sequence data of MM from the Sanger Institute data set and sequenced Indian samples to identify driver mutations using various tools and algorithms.
- Further, the speaker highlighted that understanding the driver mutations causing MM can identify druggable signaling targets for precision treatment for achieving better results with fewer side effects.

Event: Invited Scientific talk

Time: 3.00 PM to 3.45 PM

Speaker: Prof. Dr. M Vijayakumar,

Professor Surgical Oncology, Honourable Vice Chancellor, Yenepoya University, Mangalore

Topic: Robotic surgery in oncology

Chair persons:

Dr. S M Azeem Mohiyuddin
Professor & HoD
Dept. of ENT, SDUMC, Kolar

Dr. Sreeramulu. P N
Professor
Dept. of General Surgery, SDUMC, Kolar



The speaker highlighted the following points:

- Evolution of surgery from traditional techniques to recent Laparoscopic surgeries.
- The new era of Robotic surgery, merits and demerits of the surgery was addressed.
- Cost-effectiveness of robotic surgery over other surgeries was debated.

Event: Invited Scientific talk

Time: 3.50 PM to 4.35 PM

Speaker: Dr. Sowdhamini R, Professor, NCBS, Bangalore

Topic: Computational biology and big data analysis

Chairpersons:

Dr. Prasanna Kamath
Professor & HoD
Dept. of Community Medicine
SDUMC, Kolar

Dr. Arun. HS
Professor
Dept. of Orthopedics
SDUMC, Kolar



The speaker highlighted the following points:

- Analysis of transcriptome data of cardiomyopathy data to glean dysregulated genes in metabolic pathways.
- Providing structural rationale for genetic mutations that are accumulated in MTM1, human gene that code for a lipid phosphatase.

Day 2: 14th February 2024

Session -1

Event: Invited scientific talk

Time: 9.30AM to 10.45AM

Speaker: Dr. Prashantha Kalappa, Dean, Research, Adichunchanagiri University,
Bellur, Mandya, Karnataka

Topic: Halloysite-Based Polymer Nanocomposites for Biomedical Applications

Chairpersons:

Dr. Sarala. N
Director Academics
SDUAHER, Kolar

Dr. Krishnappa. J
Medical Superintendent
Professor, Dept. of Pediatrics
SDUMC, Kolar

The speaker highlighted some of the following points:

- Functionalization of Halloysite nanotubes (HNTs) with various biopolymers such as poly (lactic acid), chitosan, sodium alginate, cellulose acetate, lignin, and pectin.
- Also, the speaker highlighted that fabricated polymer-nanocomposite films exhibit promising properties for biomedical applications, such as tissue engineering and wound healing.
- The comprehensive characterization and evaluation suggest the potential of these films in supporting cellular activities and ensuring hemocompatibility, thus highlighting their suitability for various biomedical applications.



Event: Invited scientific talk

Time: 10.45 AM to 11.45 AM

Speaker: Dr. Vishnuprasad Chethala N, Associate Professor, University of Trans Disciplinary Health Sciences and Technology, Bangalore

Topic: Expanding frontiers of health sciences through Ayurveda biology research

Chairpersons:

Dr. Sheela. S.R
Professor
Dept. of OBG
SDUMC, Kolar

Dr. Vijayakumar PS
Associate Professor, I/c HoD
Dept. of Integrative Medicine, FAH & BS, SDUAHER, Kolar

The speaker highlighted some of the following points:

- The healthcare strategies rooted in single medical tradition/philosophy may not be sufficient to address these determinants and optimize them. This is where a transdisciplinary framework of healthcare allowing the coexistence of diverse medical traditions and creation of a logical and effective interface between them is imperative.
- Holistic perspective and principles on wellness and disease management practiced in Ayurveda may be a worthwhile option in this context.
- The transfusion of knowledge from both modern biology and Ayurveda can sow the seeds for growth of a new cross-cultural biology that may generate original contributions to the world of health science.



Event: Invited Scientific talk

Time: 12.00 noon to 12.50 PM

Speaker: Mr. Atharva Kashikar, Super Craft, Bangalore

Topic: 3D Bio-Printing in Health Sciences

Chairpersons:

Dr. Shivarama Bodapathi
Professor & HOD,
Dept. of Urology
SDUMC, Kolar

Dr. Ashwathappa
Professor & HOD
Dept. of Surgical Oncology
SDUMC, Kolar

The speaker highlighted some of the following points:

- Based on the image data collected by CT, MRI and other scanning equipment, the 3D printing medical model can be used for operation pre-planning, medical education and doctor-patient communication.
- The application and development of 3D printing technology are reviewed in Medical model. Its applications include medical education, Metal implants, surgical planning, prosthesis customization, tissue culture and organ manufacturing and so on.
- Its wide application is due to its digital model, which makes the whole manufacturing process easier to digitize, so it is more conducive to updating and customization of products via 3D printing.



Event: Invited Scientific talk

Time: 12.50 PM to 1.30 PM

Speaker: Dr. R.N. Srinivasa Gowda, Former Vice Chancellor, Karnataka Veterinary, Animal and Fisheries Science University, Bangalore

Topic: Interdisciplinary research with reference to health sciences

Chairpersons:

Dr. Kalyani.R

Professor & Former HOD

Dept. of Pathology, SDUMC, Kolar

Director, Research & Development Cell, SDUAHER. Kolar

Dr. Dayanand. C.D

Dean, Faculty of AH&BS

SDUAHER, Kolar

The speaker highlighted some of the following points:

- One of the major areas of emphasis in academia in recent years has been interdisciplinary research, a trend that promises new insights and innovations rooted in cross-disciplinary collaboration.
- Interdisciplinary Health Sciences encourages students to examine today's complex health issues from a variety of perspectives.
- The Presentation explained how interdisciplinary research is conceptualized and operationalized from the researcher's perspective and to better understanding how best to facilitate interdisciplinary research for the success in health sciences.



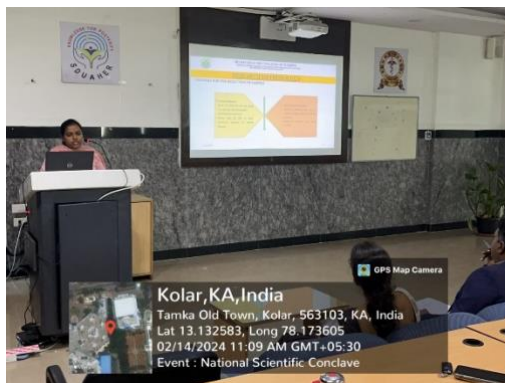
Event: Oral presentations, Session 1

Time: 11.00 to 1.30 PM

Venue: Dr. B C Roy Lecture Hall, First floor, Library building

Judges:

1. Dr. Arvind Natarajan,
Professor and HOD of Microbiology,
SDUMC, Kolar
2. Dr. Madhavi Reddy R
Professor
Clinical Nutrition and Dietetics,
SDUAHER, Kolar



16 presenters presented their original research article. Each presenter had a time limit of 7 min (for presentation) and 2 min (for discussion).

-----1.30 PM to 2.10 PM – Lunch break-----

Session 2

Event: Oral presentations, Session 2

Time: 2.15 to 3.30 PM

Venue: R L Jalappa Silver Jubilee Auditorium

Judges:

1. Dr. Arvind Natarajan,
Professor and HOD of Microbiology,
SDUMC, Kolar
2. Dr. Madhavi Reddy R,
Professor of Clinical Nutrition and Dietetics,
SDUAHER, Kolar



5 presenters presented their original research article. Each presenter had a time limit of 7 min (for presentation) and 2 min (for discussion).

Event: E-Poster presentations

Time: 2.15 to 3.15 PM

Venue: Dr. B C Roy Lecture Hall, First floor, Library building

Judges:

1. Dr. Srinivas Reddy P,
Professor of Forensic Medicine,
SDUMC, Kolar
2. Dr. Venkateswarlu Raavi,
Assistant Professor,
Cell Biology and Molecular Genetics
SDUAHER, Kolar

10 presenters presented their original research article. Each presenter had a time limit of 5 min (for presentation) and 2 min (for discussion).

Event: Valedictory function

Time: 3.45 to 4.30 PM



The Valedictory function was graced by

1. Prof. Dr. B. Vengamma, Honourable Vice – Chancellor, SDUAHER.
2. Dr. S. Chandrashekar Shetty, Advisor, SDUAHER.
3. Dr. D.V.L.N. Prasad, Registrar, SDUAHER,
4. Dr. Prabhakar. K, Dean, Faculty of Medicine, SDUAHER and Principal, SDUMC.
5. Dr. C D Dayanand, Dean, Faculty of Allied Health and Basic Sciences, SDUAHER
6. Dr. Kalyani. R, Director, Research and Development Cell, SDUAHER.
7. Dr. S. M. Azeem Mohiyudhin, ENT- Head & Neck Surgery, SDUMC.
8. Dr. Vijay Kumar P S, Organizing Secretary of the conference



- The Valedictory function started with an invocation song
- Dr. Arvind Natarajan, Organizing Co-Chairperson welcomed the gathering
- Dr. Kalyani R, Organizing Chairperson presented the conference report

Dr. Samudyatha, Assistant Professor, Community Medicine announced the awardees of

Oral Presentation (under student category):

First Place: Ms. Deekshitha Y S

Second Place: Mr. Ayanava Goswami

Consolation price: Ms. Joanna Rachel

Mr. Tanmay Prashant Gudankush

Ms. Abhilasha Bhattacharya



Poster Presentation (under student category):

First Place: Mr. Pavan Kumar B N

Second Place: Seinguntla Ajay Kumar

Consolation price: Mr. Nithin

Oral Presentation (under faculty category):

First Place: Mr. A V Sumanth

Second Place: Dr. Satishbabu P

The Valedictory function ended with Vote of thanks and National Anthem

Dr. Kalyani R

Organizing Chairperson



The Organizing Committee