



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

No. SDUAHER/KLR/KLR/R&D/158/2023-24

Date: 23.03.2024

Report on workshop

“Nutritional Genomics: From Promise to Practice”

Organized by Research and Development Cell

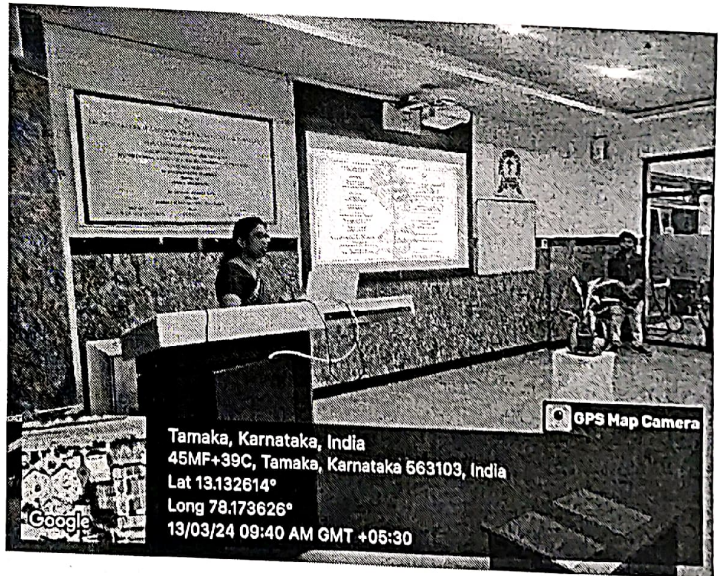
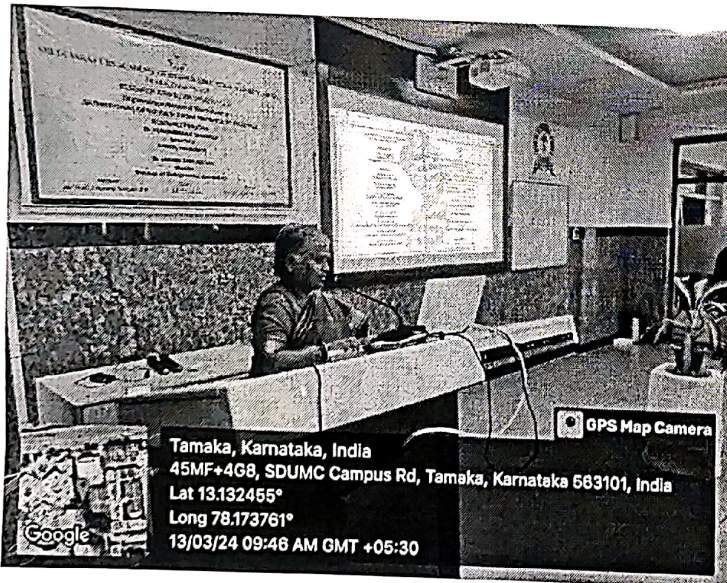
On

13th February 2024

The Research and Development cell, SDUAHER, organized a workshop on ‘nutritional genomics: from promise to practice’ on 13th March, 2024 at AV hall of the university library, SDUAHER. The program was started at 9.30 am with an invocation song followed by the welcome address by the organizing chairperson, Dr. Kalyani R. She emphasized on the importance of workshop in present scenario and also welcomed all the dignitaries and participants to the workshop. After that, The Hon’ble Vice Chancellor, Dr. B. Vengamma inaugurated the program by watering the plant along with the Dean, faculty of medicine, SDUAHER & principal, SDUMC, Dr. Prabhakar K, Dean, allied health and basic sciences, Dr. C.D.Dayanand, Director, Research & development cell, and organizing chairperson, Dr. Kalyani R, organizing secretary, Dr. Madhavi Reddy, and also resource persons, Dr. Ferdinamarie sharmila, Geneticist, JIPMER, Pondicherry, Dr. Janani tamilvanan, Director, Institute of Nutrigenetics, Coimbatore. Later, the Hon’ble Vice Chancellor, Dr. B. Vengamma addressed the gathering by informing about the workshop significance quoting the new concepts and approaches in nutritional genomics aligned with the clinical care settings according to the current requirements.



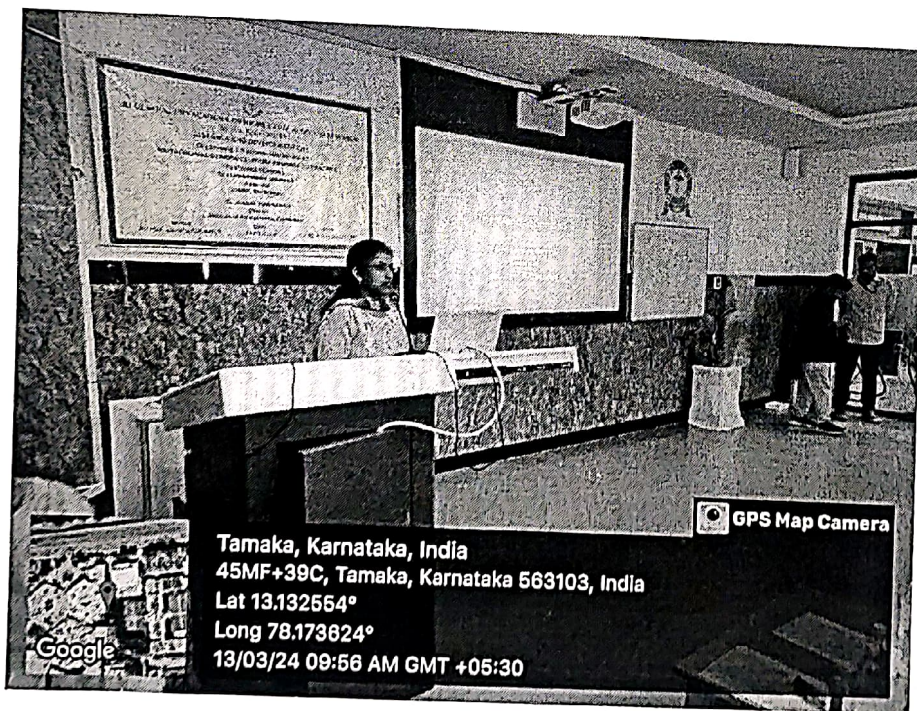
Inauguration



Two resources persons engaged the workshop by taking two sessions of each one. Dr. Ferdinamarie Sharmila, Geneticist, JIPMER delivered a talk on “the world of genetics”, in which she enlightened the participants with following aspects from 10.00 am – 11.30 am

- Indispensable role of Genetics in medicine
- polygenic vs rare
- Genetic study designs
- SNPs & GRS/PRS
- Epigenetics – Over and above DNA
- India’s current stand
- Direct to customer genetic testing- The trail- Methods of genotyping
- Ethical considerations

The session was followed by an interactive session and the speaker clarified all the queries of the participants.



The second session was started by 11.45 am – 1.00 pm by Dr. Janani tamilvanan, Director, Institute of Nutrigenetics, Coimbatore. She spoke on Translational Nutrigenetics: From Promise to Practice, Insights from India with the following contents



- Genome
- Polymorphism
- Genetic databases
- Genes and nutrition
- Nutrigenetics trials
- Organisations and institutions associated with nutrigenetics
- Precision nutrition
- Personalised nutrition
- Gene nutrient interactions

The session was followed by an interactive session and the speaker clarified all the queries of the participants. PhD Scholars actively participated in the discussion. The session resumed at 2.00pm after the lunch break by the speaker Dr. Ferdinamarie Sharmila. In this session, she emphasised about several genotype techniques from basic to advance and following details

- Steps in PCR and its chemistry
- Restriction fragment length polymorphisms
- Real time PCR-Taqman based PCR
- Multi-Analyte Profiling Technology
- Different sequencing methods
- Sequence Analysis in Seqscape software
- Quality controls in Sequencing
- 2nd Generation and next generation sequencing

Next session was started by Dr. Janani tamilvanan, Director, Institute of Nutrigenetics, Coimbatore and she explained in detail about the interpretation of genetic report along with the case based approaches involving diet recommendations of each nutrients by demonstrating a sample report. After the session, the valedictory session was started by the organising chairperson and distributed the certificates to the participants. A Google form link was shared with all the participants and the feedback was thus obtained. Some participants orally expressed the significance of the workshops denoting positive feed backs about the workshops. The session was concluded with the vote of thanks by Dr. Shilpa, MD, organising co-secretary.

After the session, a tea-break was arranged which was followed by a group photo session in front of the library.

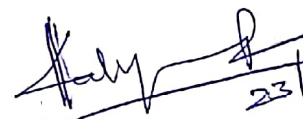


Group Photo


23/03/2024
Prepared By

Dr. Madhavi Reddy

R&D Member and Organizing Secretary


23/03/24
Approved by

Director

R&D Cell, SDUAHER
Director
Department of Research and Innovation
Sri Devaraj Urs Academy of
Higher Education & Research
Tamaka, Kolar, Karnataka-563103