

## **MCOPS Diamond Jubilee Commemorative Lecture Series: "Evolution and Future of OMICS in Cancer"**

### ***Organized by***

Department of Pharmacy Practice, Center for Translational Research  
Manipal College of Pharmaceutical Sciences (MCOPS), MAHE, Manipal

### ***In association with***

Global Cancer Consortium

**Venue: NLH-1, Ground floor, MCOPS, Manipal**

**Date & time: June 16, 2023, 9:30-10:30 AM**

### **Resource person**



### **Sooryanarayana Varambally, MSc, PhD, MBA**

Professor & Director of Translational Oncologic Pathology Research  
Co-Director of Cancer Biology Graduate Program  
Senior Scientist, Informatics Institute & O'Neal Comprehensive Cancer Center  
University of Alabama at Birmingham, AL, USA  
Adjunct Professor, KMC, Mangalore  
Adjunct Faculty, The University of Michigan

#### **Dr. Mahadev Rao**

Organizing Secretary  
Pharmacy Practice, MCOPS

#### **Dr. Surulivelrajan M**

Head of the Department  
Pharmacy Practice, MCOPS

#### **Dr. C. Mallikarjuna Rao**

Principal, MCOPS  
MAHE, Manipal



**MANIPAL**  
ACADEMY of HIGHER EDUCATION  
(Institution of Eminence Deemed to be University)



**Global Cancer Consortium**  
Helping cancer patients around the globe



## Workshop on UALCAN Database: "Mining of Big Data in Cancer OMICS"

### *Organized by*

Department of Pharmacy Practice, Center for Translational Research  
Manipal College of Pharmaceutical Sciences (MCOPS), MAHE, Manipal

Manipal Comprehensive Cancer Care Center (MCCCC)  
Kasturba Medical College (KMC), MAHE, Manipal

Manipal School of Life Sciences (MSLS), MAHE, Manipal

### *In association with*

Global Cancer Consortium- South Asia Chapter

**Venue: Room 126, First floor, MCOPS, Manipal**  
**Date & time: June 16, 2023, 10:45 AM-01:30 PM**

Register here: <https://forms.gle/ppmQcdTpLus3jwjo9>

**Last Date for Registration: June 11, 2023**

### **Resource person**



### **Sooryanarayana Varambally, MSc, PhD, MBA**

Professor & Director of Translational Oncologic Pathology Research  
Co-Director of Cancer Biology Graduate Program  
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#### **Dr. C. Mallikarjuna Rao**

Principal, MCOPS  
MAHE, Manipal

#### **Dr. Padmaraj Hegde**

Dean, KMC  
MAHE, Manipal

#### **Dr. Satish Rao B.S.**

Director of Research, MAHE  
Director, MSLS, MAHE, Manipal

#### **Dr. Naveen Salins**

Coordinator, MCCCC  
KMC, Manipal

#### **Dr. Surulivelrajan M**

Head of the Department  
Pharmacy Practice, MCOPS

#### **Dr. Mahadev Rao**

Organizing Secretary  
Pharmacy Practice, MCOPS

## Biographic Sketch of Dr. Sooryanarayana Varambally

[Dr. Sooryanarayana Varambally](#) is an esteemed scientist and professor whose research focuses on elucidating the molecular basis of cancer through an integrative genomic, epigenetic, and proteomic approach. He presently holds several esteemed positions, including Scientist (C) at the Informatics Institute and O'Neal Comprehensive Cancer Center at the University of Alabama at Birmingham (UAB), Senior Scientist (C) at the Nephrology Research & Training Center, and Director of Pathology at the Joint Academic Departments at UAB. Additionally, he serves as a Scientist in Cancer Cell Biology at the O'Neal Comprehensive Cancer Center and the Center for Clinical and Translational Science (CCTS) at the General Clinical Research Center. As the Co-Director of the Cancer Biology Theme of UAB-Graduate Biomedical Sciences (GBS), Dr. Varambally is actively involved in teaching and mentoring the next generation of scientists. He is an adjunct Professor at the KMC, Mangalore and adjunct faculty at the University of Michigan at Ann Arbor, USA.

Dr. Varambally's extensive research in solid tumor genomics, biomarker discovery, biology, and therapeutic targeting has resulted in numerous ground-breaking discoveries in the field of cancer research. His team's translational cancer research involves translating fundamental discoveries into the development of disease detection markers and therapy for the identified targets. He has conducted extensive work to identify molecular alterations during the initiation and progression of various human malignancies, using integrative analysis to determine the best targets and develop agents/drugs for specific causative targets.

Dr. Varambally's transformative efforts toward enhancing the precision targeting in the fight against cancer led to development and deployment of a comprehensive cancer proteogenomic data analysis portal, the **UALCAN** (**U**niversity of **AL**abama **CAN**cer Portal, [ualcan.path.uab.edu](http://ualcan.path.uab.edu), Yes! You All Can). This comprehensive proteogenomic platform aids in examining "BIG cancer data" in a user-friendly format, allowing cancer researchers and clinicians to identify biomarkers and viable targets. UALCAN has had over 1,200,000 site visits from over 100 countries and cited in over 4,000 research articles in the last 6 years making cancer research a global team effort and received rave reviews from clinicians and scientist worldwide.

Dr. Varambally's research has led to the identification of several promising therapeutic targets, such as Histone Methyltransferase EZH2, AMACR, TPD52, ERG gene fusion, SPINK1, RAF kinase gene fusions, GOLM1, GLYATL1, GATA3, AGTR1, CCN6, MTHFD1L, PAICS, and PAK4 in various cancer.

Dr. Varambally's prolific research output has resulted in over 150 published articles, many of which have appeared in prestigious, high-impact journals such as *Science*, *Nature*, *Nature Medicine*, *Nature Biotechnology*, *Nature Communications*, *New England Journal of Medicine*, *Cancer Cell*, *Cancer Discovery*, *Blood*, *PNAS*, *Cancer Research*, *Neoplasia*, *Oncogene*, and others. His work has been highly cited, with over 43,300 citations and an h-Index of 72. In 2007, he was a member of the team that received the prestigious Inaugural American Association for Cancer Research (AACR) Team Science Award for his groundbreaking discoveries. He received the Research Faculty Recognition Award from the University of Michigan in 2009 and the Outstanding Achievement Award from the Society of American Asian Scientists in Cancer Research (SAASCR) in 2021. This year, Dr. Varambally received the Dean's Research Excellence award from the UAB Heersink School of Medicine for his outstanding research contributions.