



International Workshop on Data Science and Modern Biology

20 & 21 December, 2021

Organised by

Aravind Medical Research Foundation, Madurai

About AMRF

Aravind Medical Research Foundation (AMRF) is an arm of Aravind Eye Care System (AECS) that focuses on improving eye care through research and development. It is a DSIR recognised educational institute conducting interdisciplinary research to combat major eye diseases. The institute has the state-of-art facilities that include Miseq Next Generation Sequencer, Orbitrap Mass Spectrometer, Confocal Microscope, Laser Capture Microdissection system, High Performance Liquid Chromatography, Sanger Sequencer Tissue/Organ Culture facilities and 2D DIGE proteomics platform. With the active participation of Clinician Scientists, the research findings from AMRF have been translated for patient care for many diseases.

About the Workshop

With the advent of high-throughput technologies, the modern biology is witnessing a major revolution. Data science is at the core of big-data centered modern biology. This two day meeting is planned to provide an update on the role of data science in modern biology to the researchers by the eminent scientists in the field. It also comprises of two mini workshops on Single cell omics (10X Genomics) and Gene expression profiling using NanoString Technology (Theracues). By attending the meeting, the participants will get insights of modern techniques and find ways of utilising them for their research work.

Who can apply?

PhD Scholars from Universities and Colleges pursuing their research work in any division of Life Sciences

Registration:

- The number of participants will be limited to 30 due to existing regulations.
- Application can be made through google forms (<https://forms.gle/tkZXTAYjcWndo7Xp9>)
- Selected participants will be intimated by e-mail and registration fee (Rs.500) has to be paid on the spot when attending the workshop
- Accommodation will not be provided and arrangements have to be made by the participants themselves
- Mode of workshop (in-person/online) may change subject to government regulations due to COVID pandemic

Speakers

Anil Kumar P

Sree Chitra Tirunal Institute for Medical Sciences & Technology

Balasubramanyam M

SRM Institute of Science and Technology

Bethany Mills

University of Edinburgh

Chitraa Tangavel

Ganga Orthopaedic Research & Education Foundation

Colin Willoughby

Ulster University

Karutha Pandian S

Alagappa University

Kumaramanickavel G

Narayana Nethralaya

Kumaravel S

Indian Institute of Science

Rachel Williams

University of Liverpool

Thiyagarajan S

Institute of Bioinformatics and Applied Biotechnology

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