
GIST OF THE CONFERENCE

The International Conference on Bioinformatics and Data Science – 2020 started on 23rd July 2020 with a prayer song followed by a welcome message by our beloved President, Mrs Padmashree Murthy. This was followed by a keynote by Dr Richard Hill who talked on The Qualia of Microbiology and Quantum Functioning wherein he said “We can explore the very small and create descriptions of the mechanisms that operate at molecular and even at quantum states. But, how do these mechanisms create the conscious experience of the macro world in which we are consciously aware.” This was followed by the talk of Prof. Vivek Chandramohan who presented on “De novo transcriptome analysis of non-model plant *Andrographis paniculata* using mRNA-Seq data for gene discovery and marker identification” wherein he stresses on *Andrographis paniculata*. Further, he said “*Andrographis* being a non-modal plant, genomic analysis is limited by the very small quantity of publicly available annotated sequence data. Our research, thus, focuses on employing transcriptomic analysis based on NGS to generate transcript information about the plant and characterize metabolic pathway related to diterpenoids biosynthesis.” Following his talk, we had Ayurveda acharya Dr Resmi B G who spoke about ayurinformatics. She said, “The data whether it is conceptual or clinical, is to be transformed into information that benefits diagnosis and treatment.”

The afternoon session started with the talk of Dr Jyotirmai B Janbow who said “COVID-19 Homoeopathy as a System of Medicine is time tested since 200 years, and giving exams daily regarding its Existence and Scientificity in restoring Health to the suffering humanity. From the days of Hahnemann to till date we came across many infectious diseases some of them were pandemic, epidemic and sporadic. Following her talk, we had bioinformatician Dr Kaushik Sripathi Hatti who talked on “How to model complex biological data in a database”. He said “Data science” is a field which helps us bridge the gap between “Data” and “Information”. Data science involves tools and techniques to handle data, model it and make information retrieval efficient.” Following his talk, we had Acupuncturist Dr Debasis Bakshi who says Acupuncture is an oriental traditional system of medicine and in ancient Indian literature, Acupuncture is mentioned as Suchiveda Chikitsya. Next, we had another Acupuncturist Dr C Krishna Raju who said Modernization of the Chinese Acupuncture

theories leads to a deeper understanding of the Physiological mechanisms underlying it, and reveal unique Physiologies within the system.

The following day 24th June 2020 started with talk of yogini Smt. Chaitra Gururaja who said Yoga is an integrative mind-body system of wellbeing invented and developed in India since at least three millennia ago and Yoga has gained considerable attention in recent decades, partly driven by recent research and evidence about its effectiveness. Following, we had Homeopathy doctor Dr Chiranth, who talk on “pharmacokinetics and its efficacy in Neurological disorders”. Dr Chiranth said “The uncertainty and lack of any fixed principle of healing disappointed him and he relinquished medical practice and devoted himself to the translation of great medical classics of his time”

Next, we had an oral presentation by Dr Gaurav Soni titled “Role of Eight Fold Doctrine of Yoga in Self Recreation”, by Tanusree Mookherjee titled “Comparative analysis of the binding interactions between Mst1-Sav1 and Mst2-Sav1 in the cellular apoptotic pathway”, by Sima Biswas titled “Elucidation of the effects of mutations on REP domain of PARKIN during the onset of Parkinson’s disease”, by Shibin Eranhottu titled “Isolation of epiphytic bacteria from the seagrass *Halophila ovalis*, *Halodule uninervis* from Haddo, South Andaman, India” and Khaidem Kennedy Singh titled “Optimize immune System: Integrative Medicine & The Covid-19 Pandemic” and by Shriraksha H Padaki titled “Study Of Dermatoglyphic Patterns And Mendelian Trait And Its Relation To The Intelligence Quotient In Humans”.

The afternoon session started with the talk by data scientist Dr Pramod Naik whose talk was on “Real-Time Implementation of Video Compression Based on DWT”. He said “The designed architecture of DWT based video compression is again executed in parallel processing mode and its execution time is tabulated demonstrates reduced the processing or execution time.

Following we had a talk by Hithesh Kumar C K titled “DNA Sequencing and Third generation sequencing technologies. He says Applications of this technology started a revolution in Genetics, Medical Diagnostics, Pharmacology, Therapeutics, Agriculture and many more.

Shibin Eranhottu and Shriraksha H Padaki were given the 1st place in oral presentation; Khaidem Kennedy Singh and Tanusree Mookherjee were given the 2nd place in oral presentation; Sima Biswas was given a certificate of appreciation.