Knowledge Leadership Forum (KLF) Lecture on Next Generation Sequencing (NGS)

The talk was hosted on 14th September 2019 at the Department of Bioinformatics, SASTRA, by COMBIGS, as an online session with Dr. Gopuraja Dharmalingam, Associate Director, Summit Therapeutics, UK. He shared with the audience the perks of his own areas of interest, on 'Introduction to ChIPSeq data analysis' to the wide audience with varied backgrounds (bio & non-bio). He shared his experience in integrating genome wide high throughput data including gene expression, transcription factor binding, Quality control of sequence & Alignment and visualization of the data. Though the audience were from different backgrounds, they were enthusiastically engaged with the speaker. The audience were much benefited by his telecasted speech on NGS.

NGS Workshop Executive Summary The COMBIGS student association of the Department of Bioinformatics conducted an intriguing workshop on the "Introduction to Next Generation Sequencing Data Analysis" on Saturday, 14.9.2019.The workshop's primary focus was to expound upon the inception and advancements of Next Generation Sequencing and buttress the introductory lecture talks with an entire afternoon of hands-on experience. The event witnessed participants from a variety of disciplines and backgrounds, including M.Sc student members from Data Science and Biotechnology, B.TechStudent members from Biotechnology, Bioinformatics, Medical Nanotechnology and Computer Science anda total of 23 students participated.

Dr. K. Saraboji, Dr. Suma Mohan and Dr. A. Sathya introduced the diverse audience to NGS by delineating the essence of bioinformatics and explained the importance of NGS by expounding their thoughts about the various big data file formats involved in NGS data analysis and their applications in real problem solving in biotechnological industries. The hands-on session at the Bioinformatics lab invited excited learners to have a quick peek at NGS data analysis. Sample files from cutting edge research were provided and participants were taught how to use NGS tools and draw inferences from their analysis.