



17th Jan. 2017

Visit to National Institute of Biomedical Genomics

As part of NIPER-Kolkata PhD scholars' training and research programme one day visit to National Institute of Biomedical Genomics (NIBMG), located at Netaji Subhas Sanatorium, Kalyani, West Bengal was organized. This visit was accompanied by Prof. V. Ravichandiran, Director, Dr. Kamal K. Datta, Academic Coordinator and Dr. V. Murugan, DST-Inspire faculty of NIPER-Kolkata.

This institutional visit started with a warm welcome and a presentation by Dr. Sharmila Sengupta, Director, NIBMG. Dr. Sharmila's presentation included the research infrastructure and contribution from the individual research groups of NIBMG. Dr. Sharmila further discussed the ongoing 'Kalyani Cohort Study' and 'Programme on Pre-term Birth'. Followed by highlighted their special initiatives such as **Core Technologies Research Initiative (CoTeRi)** and Biomedical Genomics Centre (BMGC). Thereafter, Dr. Arindam Maitra, Associate Professor delivered an intriguing speech on 'Next Generation Disease Genomics' and discussed in details about the instrumental facilities like Multiplex Suspension Array, Ion Torrent, FACS, Illumina etc.

This followed with a visit to Dry lab, where scholars had introductory discussion on the analysis of the complex data set using genome sequencing software. Further, scholars visited the centralized data storage system of NIBMG, operated on 24x7 mode from a Data Centre located inside the institute. An interactive session with instrumental experts was arranged covering Illumina and RNA sequencing machine.

Following the visit to the dry and wet labs, post-lunch scientific session included a presentation from Dr. Moulinath Acharya on 'Genome Editing Technologies' mainly focused on CRISPR-Cas9. After that, Dr. Bhaswati Pandit presented a talk on 'Cytokine As Biomarker, What we know? which emphasized the importance of identification of biomarker relevant to infectious disease like latent tuberculosis. Following that the use of "Multiplex Suspension Array Platform" for biomarker screening was demonstrated. This lecture was followed by a compendious lecture on 'Isolation and Characterization of Cancer Stem Cells by Flow Cytometry' by Dr. Sandeep Singh.

The concluding lecture was delivered by Dr. Partha P. Majumder, Distinguished Professor who talked about the correlation between the response to vaccination and genetics.