

A webinar by **Dr. AMIT SINHA** from **HARVARD MED SCHOOL, USA** on **27-July-2016** was conducted in the **C421** classroom for the benefit of second year B. Tech. students and scholars of the department. The webinar was entitled “**RNA sequence analysis**”. The session started with discussion on various types of RNA sequencing techniques followed by detailed discussion on RNA sequence analysis.

RNA-sequencing (RNA-seq) has a wide variety of applications, but no single analysis pipeline can be used in all cases. Dr. Sinha reviewed all of the major steps in RNA-seq data analysis, including experimental design, quality control, read alignment, quantification of gene and transcript levels, visualization, differential gene expression, alternative splicing, functional analysis, gene fusion detection and eQTL mapping and highlighted the challenges associated with each step. Dr. Sinha then discussed about the analysis of small RNAs and the integration of RNA-seq with other functional genomics techniques.

Webinar also focussed on outlook for novel technologies that are changing the state of the art in transcriptomics. The webinar was very well received by the students and scholars of the department, as they listened with rapt attention and posed thought provoking questions in the end, to the course coordinator.



Dr. Amit Sinha from Harvard Med School, USA delivering webinar



Students following the webinar with complete attention