



# Summer Workshop Series 2019

in association with

Beckman coulter, Spinco Biotech Pvt Ltd, ThermoFisher Scientific, Lark Innovative Fine Teknowledge



B.S. Abdur Rahman  
**Crescent**  
Institute of Science & Technology  
Deemed to be University u/s 3 of the UGC Act, 1956

<u>Workshop</u>	<u>Techniques</u>	<u>Registration fee</u>	<u>June, 2019</u>
<b>ADVANCED TECHNIQUES IN MOLECULAR BIOLOGY</b>	Isolation of genomic DNA, Agarose gel electrophoresis, Gel Documentation & Analysis, Genomic PCR, Primer Designing siRNA Designing. * Optional techniques -qPCR & NGS data analysis	Rs 3000/- + * Rs 2000	25 – 27, *28
<b>COMPUTATIONAL BIOLOGY</b>	Introduction to databases, Sequence retrieval, Format conversion, BLAST, Sequence alignment, Phylogenetic analysis, Protein structure prediction, Drug docking, RNA i Technology. * Optional technique - NGS data analysis	Rs 3000/- + * Rs 1000	17-19
<b>NANOTECHNOLOGY</b>	Biogenesis, Characterisation, Bioactivity – Anti-biogram, MARI calculation, MIC, MBC, biofilm, time kill curve.* Optional techniques - HPLC, cell viability by FACS and gene expression analysis	Rs 3000/- + *Rs 3000	24- 26, *27 -29
<b>BIO-TESTING OF HERBAL PRODUCTS / PHYTOCOMPOUNDS</b>	Extraction and qualitative biochemical analysis of herbal products, In-vivo biological assay - Antimicrobial potential of the herbal products, In-vitro biological assay - Anti-oxidant potential of the herbal products, Chromatographic analysis of herbal products – HPLC. * Optional techniques Apoptosis by FACS, qPCR & NGS data analysis	Rs 5000/- + *Rs 2000	24 – 27, *28 & 29
<b>BIOMARKERS</b>	Qualitative and Quantitative assessment of biomarker by biochemical method, TLC & paper chromatography, ELISA, HPLC, PCR, qPCR. * Optional technique - FACS	Rs 5000/- + *Rs 1000	24 -28, *29
<b>BIOPROCESS TECHNOLOGY</b>	Sample preparation, Inoculation, Fermentation, Downstream processing, product quality assessment	Rs 5000/-	July 15-19 <sup>th</sup>

### Registration

4 days before the commencement of workshop

### Venue

School of Life Sciences  
BSARCI

Participants can bring their research samples. Lectures and hands on training will be jointly offered by scientists from leading companies (Beckman coulter, Spinco Biotech Pvt Ltd, ThermoFisher Scientific )

### Convener

Dr. S. Hemalatha  
Professor and Dean

### Organizers

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