



Sun Pharma Science Foundation's 13th Hands-on Workshop

***in collaboration with
BKL Walawalkar Rural Medical College & Hospital, Shreekshetra
Dervan, Ratnagiri, MS***

“Next Generation Sequencing and Its Application in Medicine”

Date : Oct 26th to 30th, 2026

Venue : BKL Walawalkar Rural Medical College, Ratnagiri, MS.

Next Generation Sequencing (NGS) has transformed diagnostics and biomedical research due to its high throughput nature, accuracy, and cost-effectiveness. The 5-day comprehensive workshop will give hands-on training in sample preparation for NGS analysis starting with the DNA extraction, PCR, library preparation, its quantification and sequencing run set up on Illumina NextSeq1000. The participants will learn bioinformatic analysis of the sequence data generated including FastQC quality analysis, alignment to the reference genome, identification and annotation of the variants using several online databases like Clinvar, dbSNP. The participants will learn primer designing for preparation of panels for targeted sequencing. The applications include targeted sequencing for identifying somatic alterations in tumor tissues for cancer diagnosis, identification of germ-line variants like those in BRCA1/2 genes in breast cancer. Participants will get hands-on training in preparation of library for gut microbiome. The guest lectures include Gut Microbiome, Applications of NGS in oncology, Gut microbiome analysis for immunotherapy.

Scientific Advisory Committee:

Prof. Virander S. Chauhan, Chairman SPSF

Dr Rita Mulherherkar, Convenor

Dr Neelam Shirsat, Organizing Secretary

Dr Subeer S Majumdar, Head SPSF

For Registration: <https://tinyurl.com/rmcngs2026>

For further information, please contact: -

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