



50th ACBICON 2024

Golden Jubilee Conference of Association of Clinical Biochemists of India

4th - 7th December, 2024 | Hotel Mount View, Chandigarh

Organized by: Department of Biochemistry, PGIMER Chandigarh.

Theme: From Laboratory to Life: Recent Advances in Basic and Medical Research for Global Healthcare



Overview of Next Generation Sequencing & Bioinformatics Workflow

Name(s) of resource faculty

Dr. Prateek Bhatia (MD)
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Mr. Hersh Parikh
Senior Bioinformatics
Specialist
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Venue: Seminar Room 6-D and NGS Facility (Room No 4102), Level 4A, Advanced Pediatrics Centre, PGIMER, Chandigarh

| Time | Session | Speaker |
|------------------|---|-------------------------------------|
| 08:30-08:45 AM | Registration (Outside 6-D Seminar Room, APC, PGIMER, Chandigarh) | |
| 09:00-09:45 AM | Talk on Basics of Next Generation Sequencing (NGS) | Dr. Prateek Bhatia |
| 09:45-09:55 AM | Question Answer/Doubts to Speaker | |
| 10:00-10:30 AM | Types of NGS Platforms/Technologies: Which to prefer for What! | Dr. Priyanka Srivastava |
| 10:30-10:50 AM | Tea-Break (Coffee Room adjoining 6D Seminar Room) | |
| 11:00AM-12:30 PM | Demonstration of NGS Ion Torrent platform in batches of 10 (Room No 4102, Level 4A, APC- NGS Facility) - Quality Control Pre-NGS (Qubit) - Library Preparation Steps and Workflow explanation along with instruments required - Template generation workflow and automation - Chip Loading and Data QC overview | Dr. Prateek Bhatia & Dr. Minu Singh |
| 12:30-01:30 PM | Lunch Break | |
| 01:45-02:15 PM | Basics of Bioinformatics and tools for beginners | Mr. Hersh Parikh |
| 02:15-02:25 PM | Q/A or Doubt session with speaker | |
| 02:30-03:00 PM | Bioinformatics Databases for Germline & Somatic workflow: How to use them best! | Dr. Minu Singh |
| 03:00-03:10 PM | Q/A or Doubt session with speaker | |
| 03:15-03:45 PM | Errors & Pitfalls in NGS and tips for ACMG guideline use in Clinical Reporting | Dr. Prateek Bhatia |
| 03:45-03:55 PM | Q/A or Doubt session with speaker | |
| 04:00-04:30 PM | Feedback, Certificate distribution and Vote of thanks | |

