

**Workshop on “Analysis of Next-Generation Sequencing Datasets from Bulk, Single-Cell, and Spatial Transcriptomics” organized by ICGEB, New Delhi**

**Day 1 (07.08.2024)**

<b>Timing</b>	<b>Title</b>	<b>Speaker</b>
<b>09:00 - 09:30 am</b>	<b>Registration</b>	
09:30 - 10:00 am	Workshop Inauguration by Director ICGEB	Dr. Ramesh V. Sonti, ICGEB
	Introductory Talk by the Organizer	<a href="#">Dr. Dinesh Gupta</a> ICGEB
10:00 - 10:30 am	Advancements in Next-Generation Sequencing Technology: Current Trends and Future Directions	<a href="#">Dr. Sangeeta Singh</a> ICGEB
<b>10:30 - 11:00 am</b>	<b>Tea Break</b>	
11:00- 11:45 am	Title: Bulk RNA-seq analysis using python (pyrpipe) and R (Rsubread)	<a href="#">Dr. Priyanka Jain</a> Amity University
11:45 -01:00 pm	Hands-on	<a href="#">Dr. Priyanka Jain &amp; Team</a> Amity University
<b>01:00 - 02:00 pm</b>	<b>Lunch</b>	
02:00 - 04:00 pm	Introduction to RNA-Seq Analysis with R and Bioconductor	<a href="#">Dr. Saroj Kant Mohapatra</a> NIBMG, Kalyani, WB
<b>04:00 - 04:30 pm</b>	<b>Tea Break</b>	
04:30 - 05:30 pm	Hands-on	<a href="#">Dr. Saroj Kant Mohapatra</a> NIBMG, Kalyani, WB <i>Assisted by: Neetu, Sumit &amp; Lalita</i>

**Day 2 (08.08.2024)**

<b>Timing</b>	<b>Title</b>	<b>Speaker</b>
09:30-10:00 am	Simplifying RNA-seq with cloud computing approach	<a href="#">Dr. Rahila Sardar</a> Vgenomics
10:00-10:30 am	Beyond Bulk: Single-Cell Data for Biological Discovery	<a href="#">Dr. Jatin Shrinet</a> ICGEB
<b>10:30 - 11:00 am</b>	<b>Tea break</b>	
11:00 - 12:30 pm	Beyond Bulk: Single-Cell Data for Biological Discovery	<a href="#">Dr. Jatin Shrinet</a> ICGEB <i>Assisted by: Dr. Sangeeta, Neetu &amp; Tamseel</i>
12:30 - 01:00 pm	Industrial Bioinformatics: Trends, Opportunities and Essential skills	<a href="#">Dr. Deepshikha Satish</a> Dr. Omics Labs
<b>01:00 - 02:00 pm</b>	<b>Lunch</b>	

02:00 - 04:00 pm	Single cell data analysis at speed	<a href="#">Dr. Debarka Sengupta</a> IIITD
<b>04:00 - 04:30 pm</b>	<b>Tea break</b>	
04:30 - 05:30 pm	Hands-on	<a href="#">Dr. Debarka Sengupta</a> IIITD

**Day 3 (09.08.2024)**

<b>Timing</b>	<b>Title</b>	<b>Speaker</b>
09:30 - 10:00 am (Venue: Auditorium, Ground Floor)	New Era of Spatial Transcriptomics: single cell to subcellular resolution	<a href="#">Dr. Nitya Nand Sharma</a> Premas/10X

10:00-10:30 am (Venue: Auditorium, Ground Floor)	Sample prep workflow for spatial gene expression - Tips & Tricks	<a href="#">Dr. Abhishek Saini</a> Premas/10X
<b>10:30 – 10:45 am</b>	<b>Tea break</b>	
10:45-11:30 am	Deep Dive Spatial Gene Expression Software Training Visium - Space Ranger	<a href="#">Dr. Vikas Sharma</a> Premas/10X
11:30 - 01:00 pm	Practical Demonstration of Loupe Browser with mouse brain dataset	<a href="#">Ms. Priyanka Singh</a> <a href="#">Dr. Abhishek Saini</a> <a href="#">Dr. Vikas Sharma</a> Premas/10X
<b>01:00 - 02:00 pm</b>	<b>Lunch</b>	
02:00 - 05:00 pm	Introduction to Spatial transcriptomics	<a href="#">Dr. Ishaan Gupta</a> & Team, IIT Delhi
<b>05:00 - 05:30 pm</b>	<b>Closing Session with High Tea</b>	

**Organizer:**

Dr. Dinesh Gupta

**Organizing Committee:**

Dr. Shweta Birla Dhakonia

Dr. Jatin Shrinet

Dr. Sangeeta Singh

Ms. Minakshi Sharma

Mr. Abhishek Khatri

Dr. Rakesh Kumar

**Volunteers:**

Ms. Neetu Tyagi

Ms. Tamseel Fatma

Ms. Lalita Dagar

Mr. Sumit Kumar

Mr. Neeraj Chaturvedi

Ms. Dhairya Gupta