



Tata Memorial Centre
Advanced Centre for Treatment, Research and Education in Cancer
(ACTREC)



3rd CYTOGENETICS WORKSHOP 2022
Application of cytogenetic Technologies in Diagnostics
(Hands on Training and Workshop)

DATE	TIME	SPEAKER	TOPIC
16 th November 2022 (Wednesday)	8:30- 9:00 am		Registration & Attendance
	9:00-9:30 am		Breakfast
	9:30-10:00 am		Inauguration and Welcome Note
	10:00-10:45 am	Dr. Swapnali Palkhiwale	Introduction to Cytogenetics, History, Structure of Chromosomes, Mitosis and Meiosis
	11:00-11:45 pm	Dr. Purvi Mohanty	Methods and Principles of Cytogenetics
	12:00-1:15 pm	Dr. Dhanlaxmi Shetty	Applications of Clinical Cytogenetics in Prenatal, Postnatal studies, Pre-implantation genetic diagnosis & Cancer
	1:15- 1:30 pm	Mr. Ram Usarathi	MCQ's with discussion
	1:30 to 2:15 pm Lunch Break		
	2:15-3:15 pm	Cytogenetic Team	Practical 1 - Planting of Sample (Culturing)
	3:30-3:45 pm Tea Break		
4:00-5:00 pm	Cytogenetic Team	Practical 2 - Harvesting of Sample (Processing)	

DATE	TIME	SPEAKER	TOPIC
17 th November 2022 (Thursday)	9:00 -9:30am		Breakfast
	9:30-11:30am	Cytogenetic Team	Practical 3 - GTG banding, Manual Microscopy, Karyotyping, use of metaphase finder & ASI and Metasystem software
	11:45-1:00pm	Cytogenetic Team	Practical 4 - FISH procedure, post-hybridization wash, FISH analysis & Microscopy
	1.00-2.00 pm Lunch Break		
	2:00-2:45 pm	Dr. Kunal Sehgal	Application of Flowcytometry in hematolymphoid malignancies
	2:45-3:30pm	Dr. Shailesh Pandey	Role of Cytogenomics in Diagnostics
	3:30-3:45 pm Tea Break		
	3:45-4:30pm	Dr. Pratibha K. Amare	Application of Cytogenetics in the diagnosis of Solid tumors
4:30-5:00 pm	Mr. Ram Usarathi	MCQ's with discussion	

DATE	TIME	SPEAKER	TOPIC
18 th November 2022 (Friday)	9:00 -9:30am		Breakfast
	9:30-12:30pm	Cytogenetic Team	Practical 5 -Separation, identification and arrangement of chromosomes
	12:30-1:00pm	Ms. Kruti Chaubal	Interactive and case-based discussion
	1.00-2.00 pm Lunch Break		
	2:00-2:45 pm	Ms. Chital Naresh	Laboratory quality assessment and Safety measures
	2:45- 3:30pm	Ms. Hemani Jain	ISCN 2020 Nomenclature
	3:30-3:45 pm Tea Break		
	3:45-4:30pm	Dr. Usha Dave	Prenatal diagnosis and Genetic counseling
	4:30-4:45pm	Mr. Ram Usarathi	MCQ's with discussion
	4:45-5:15 pm	Valedictory function /Certificate and Prize Distribution	