SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS), SION WEST, MUMBAI - 400 022

DEPARTMENT OF BIOTECHNOLOGY

A. Title of the Seminar/Workshop/Conferences:

Chromosomal Microarray

B. Background:

Department of Biotechnology, SIES College of Arts, Science & Commerce College (Autonomous), Mumbai under the aegis of BT talks (interactive sessions with alumni)

C. Aims/Objectives:

The main objective of the webinar series was to introduce the participants to:

1. Chromosomal microarray and its use
2. Scope of cytogenetics

D. Location:

The program was conducted using the online platform MS Teams. It was followed by a question-answer session between the resource person and participants.

E. Target audience/participants with expected number:

60 Undergraduate and postgraduate students

F. Details of Sessions:

The session was held on Saturday, 29th January 2022 from 3:30pm to 5:00 pm

G. Session and names of Resource Persons:

Ms. Tehmina Faizi, Scientific officer, Lilac Insights Pvt. Ltd., Mumbai, India

H. Expected outcome:

The feedback of participants stated that they found the session to be helpful, interesting and very relevant to the field.

The program helped them to understand:

1. Karyotyping
2. Prenatal cytogenetic screening
3. Affymetrix array and its interpretation
4. Various job opportunities in diagnostic sector

Dr. Tara Menon **29.01.2022**
Co-ordinator
Department of Biotechnology

Annexure 1: Details of the resource person

- Ms. Tehmina Faizi is currently working as a scientific officer in Lilac Insights since 2019. She did her bachelors & masters in Biotechnology and is an alumni of our department. During her masters, she did her dissertation research in BARC under the guidance of her mentor, on cloning of *Deinococcus radiodurans* DR_0708 gene signal peptide in pKG plasmid, helping her gain expertise in various molecular biology techniques such as RT-PCR, qPCR etc. She also completed various courses on Nutrition and Lifestyle in Pregnancy, offered by Ludwig-Maximilians University and Autism Spectrum Disorder, offered by University of California, both via Coursera. At Lilac, Tehmina analyses chromosomal microarray data to identify microdeletions/ duplications.

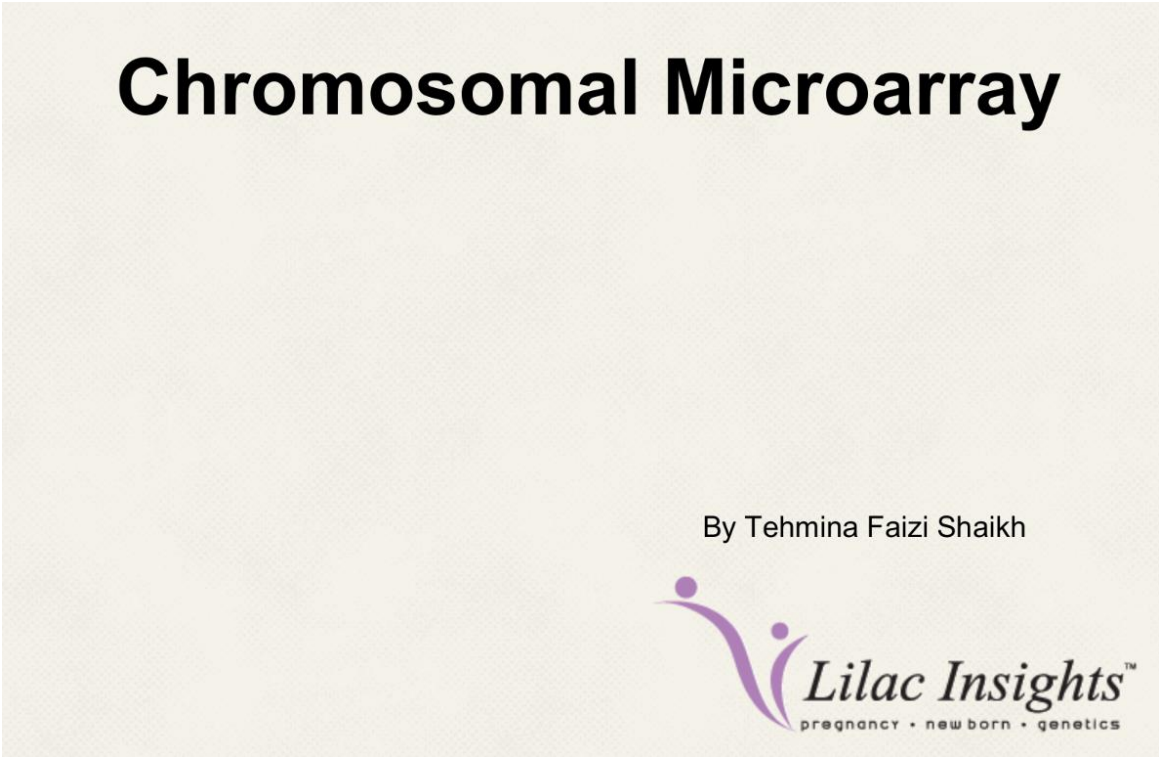
Annexure 2: Attendance Record

Timestamp	**Full Name**
29/01/2022 16:26:50	Shetty Harshitha Sunder
29/01/2022 16:26:57	Liza Fernandes
29/01/2022 16:27:16	Omkar Yadav
29/01/2022 16:27:21	Sakshi Gupta
29/01/2022 16:27:22	Jesal Vora
29/01/2022 16:27:26	Gauri Sham Jage
29/01/2022 16:27:32	Shilpa Sivadas
29/01/2022 16:27:41	Jyothika murugan
29/01/2022 16:27:53	Mansi Rawat
29/01/2022 16:27:58	Sayli Dabhade
29/01/2022 16:28:00	Aditi Rao
29/01/2022 16:28:05	Karishma Manoj Anam
29/01/2022 16:28:10	Bhavi Mashru
29/01/2022 16:28:37	Tisha Puthran
29/01/2022 16:28:38	Bhagyashree ramachandra Gubber
29/01/2022 16:28:38	Chirag Mansukh Kothari
29/01/2022 16:28:54	Jennifer Francis Nadar
29/01/2022 16:28:59	Aarathi kurup
29/01/2022 16:29:13	Amisha Bodke
29/01/2022 16:29:15	Durga Mohit Adelkar
29/01/2022 16:29:29	Niveditha Narayanan
29/01/2022 16:29:33	Sheikh Ali Ahmed

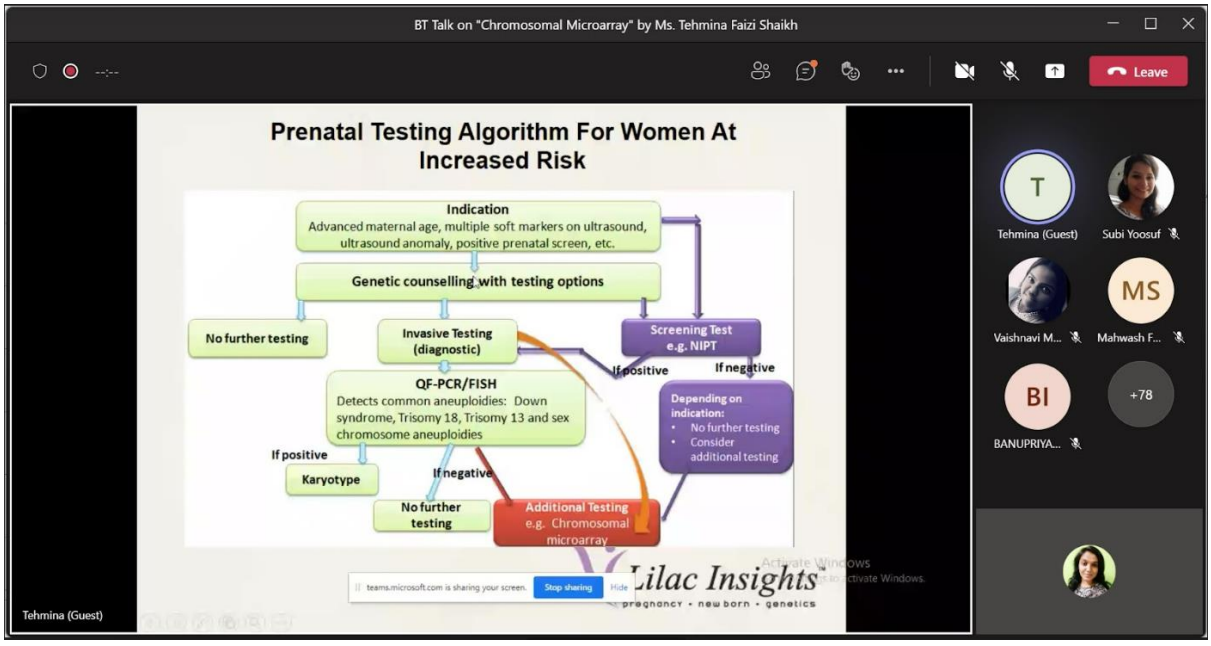
29/01/2022 16:29:35	Susan Samuel Martin
29/01/2022 16:29:36	Shreshta Srinivasan
29/01/2022 16:29:42	Shaikh Misba Mohd Farid
29/01/2022 16:29:44	sharanya shankar
29/01/2022 16:29:56	Ayesha Ravindra Shedge
29/01/2022 16:30:06	Aditya Ravi Shetty
29/01/2022 16:30:07	Anisha Bhende
29/01/2022 16:30:14	Esha Anand
29/01/2022 16:30:20	MANALI SHAILESH PRADHAN
29/01/2022 16:30:21	Kajal Chandrajit Yadav
29/01/2022 16:30:31	Mohammed Amaan Ansar Shaikh
29/01/2022 16:30:36	Kundanagathu Roshni Ravindran
29/01/2022 16:30:37	Mamta Yarukala
29/01/2022 16:30:51	Shetty Saakshi Dinesh
29/01/2022 16:30:58	Jemema Agnes Tripena Raj
29/01/2022 16:31:07	Akshitha someshwar
29/01/2022 16:31:12	nikitamishra2405@gmail.com
29/01/2022 16:31:24	Ramsha Shaikh
29/01/2022 16:31:26	Syed Mahwash Fatima
29/01/2022 16:32:04	Kunali Ajay Ambavale
29/01/2022 16:32:06	Neha yadgiri Appani
29/01/2022 16:32:28	Sneha Anbalagan Dever
29/01/2022 16:32:37	Shruti Parmar
29/01/2022 16:32:53	Mahek Parmar
29/01/2022 16:33:53	Shreya Bangara
29/01/2022 16:34:14	Banupriya Swaminathan Iyer
29/01/2022 16:34:38	Sasha Deepak Shetty
29/01/2022 16:34:49	Omkar sundeep wakale
29/01/2022 16:35:00	Priyamvada Nath
29/01/2022 16:36:45	Siddhi Bute
29/01/2022 16:37:45	Manika Sawant
29/01/2022 16:38:21	Shweta Vishwakarma
29/01/2022 16:38:23	Niharika Milind Rahate
29/01/2022 16:39:37	Onkar Haripant Karajgikar
29/01/2022 16:42:24	Vaishnavi Mahalingam

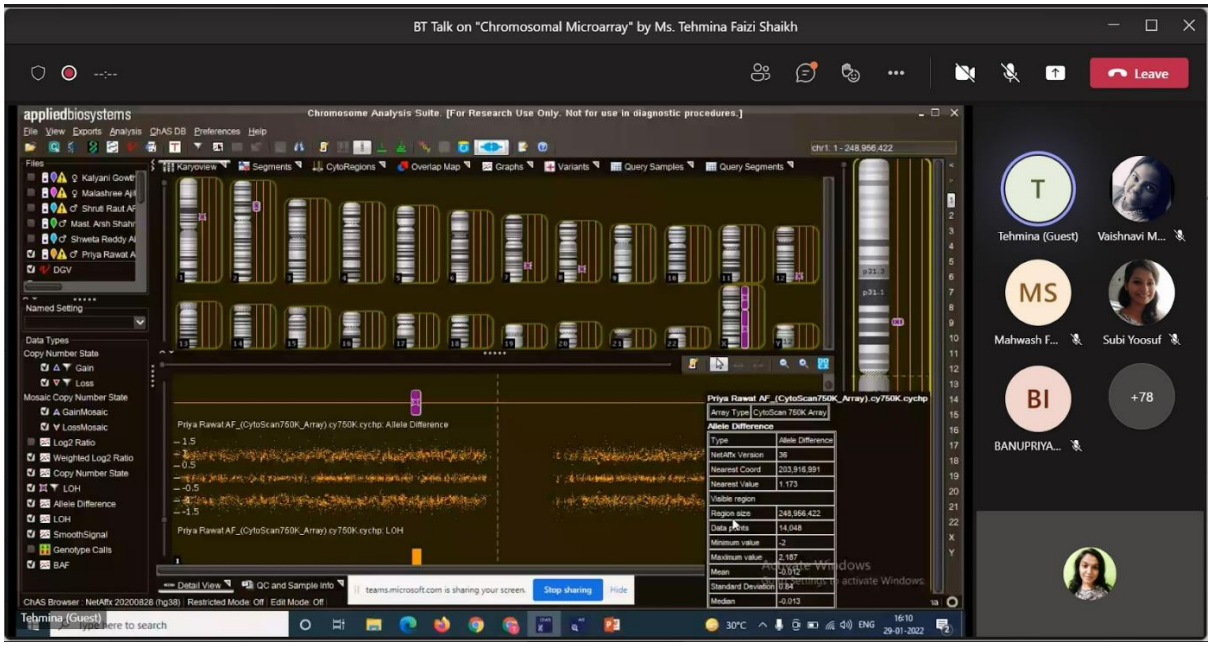
29/01/2022 16:54:48	Nadar Sibiarechal
29/01/2022 16:57:04	Neha Sandeep Gaonkar
29/01/2022 17:15:24	SAYALI JOSHI

Annexure 3: Photographs of Seminar/Workshop




AFFYMETRIX GENE CHIP 3000 MICROARRAY
Insights
new born • genetics


BT Talk on "Chromosomal Microarray" by Ms. Tehmina Faizi Shaikh
Leave
Prenatal Testing Algorithm For Women At Increased Risk
Indication
Advanced maternal age, multiple soft markers on ultrasound, ultrasound anomaly, positive prenatal screen, etc.
Genetic counselling with testing options
No further testing
Invasive Testing (diagnostic)
Screening Test e.g. NIPT
If positive
If negative
QF-PCR/FISH
Detects common aneuploidies: Down syndrome, Trisomy 18, Trisomy 13 and sex chromosome aneuploidies
Depending on indication:
No further testing
Consider additional testing
If positive
If negative
Karyotype
No further testing
Additional Testing e.g. Chromosomal microarray
Lilac Insights
pregnancy • new born • genetics
Tehmina (Guest)
Subi Yoosuf
Vaishnavi M...
Mahwash F...
BANUPRIYA...
+78



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