

**REPORT ON WEBINAR**  
**CONDUCTED BY LOYOLA COLLEGE**  
**(Autonomous), Chennai**



**LOYOLA COLLEGE**  
(AUTONOMOUS)  
CHENNAI 600034

**BIOTECHNOLOGY WEBINAR SERIES**

**Fundamentals of next generation sequencing:  
Sneak peek into Genomics Lab**

Objective: "To understand the importance of genomics in improving lives"



**Tony Jose**  
Scientist, Entrepreneur  
(Clevergene Biocorp Pvt Ltd, Bangalore)

**Dr. Rajasekhar Reddy**  
Chief scientific officer  
(Clevergene Biocorp Pvt Ltd, Bangalore)



 <https://forms.gle/vBMXGXPxF1dZo9pK7>

 28th OCTOBER, 2021  
11:00 AM

Organised by:  
PG Biotechnology  
Dept. of Plant Biology &  
Biotechnology,  
School of Life Sciences

**Dr. Sophie Figredo**  
CONVENOR

**Dr. J. Joel Gnanadoss**  
Head of the Department

The Department of Plant Biology and Biotechnology, Loyola College, Chennai, organized an exclusive webinar on 28<sup>th</sup> October 2021 on the theme “Fundamentals of next generation sequencing: Sneak peek into Genomics Lab” to provide an understanding to the students about the importance of genomics in improving lives.

The webinar started exactly at 11 AM and concluded by Noon. The webinar was through Google meet with 100 participants and was also live on Youtube with more than 300 views.

The resource persons of the webinar were Mr. Tony Jose, Scientist and CEO of Clevergene Biocorp, Bangalore, India and Dr. Rajasekhar Reddy, Chief Scientific Officer at Clevergene Biocorp, Bangalore, India. The program started with an opening remark by Dr. Sophie Figredo, Assistant professor, Loyola college. Dr. J. Joel Gnanadoss, Head of Department of Plant Biology and Biotechnology, Loyola college, welcomed the chief guests and everyone attending the webinar with his warm words of welcome. It was followed by a brief introduction of the chief guests by Assistant Professor Dr. Prem Kumar.

Mr. Tony Jose gave a brief introduction about Clevergene and highlighted that the vision of Clevergene is to improve lives with genomics. He also introduced their two applications, discovery genomics and genetic diagnostics. Dr. Rajasekhar Reddy with his very interesting presentation enlightened students about Next Generation Sequencing. He explained the technical workflows, scientific aspects and its applications. It

was a very interactive session, and he cleared all the doubts of the students during the discussion followed. The sneak peek into Genomic Lab was a great opportunity for the students to virtually see the genomic laboratory with everything well explained.

The session concluded with a vote of thanks by Acharya Anisha M, Student, MSc., Biotechnology, Department of Plant Biology and Biotechnology, Loyola College.

REC Tony Jose is presenting

Clevergene  
Improving Lives with Genomics  
Discovery Gx | Genetic Dx

11:09 AM | ffi-sqax-svb

Participants: Tony Jose, Dr. Prem Kumar A, Dr. Sophie Lorrain, Joel Gnanadoss, Loyola College C..., Sheela S, Antoine Label L, 92 others, You.

REC Dr. Rajasekhara Reddy is presenting

NGS Applications Summary Clevergene

Applications Library Generation Cluster Generation Sequencing


Whole genome  
Targeted genome  
Long PCR  
Pull-down (Exome)  
Epigenome  
Bisulfite  
Restriction  
Restriction + bisulfite  
Antibody pull-down  
Ab. + bisulfite  
Whole transcriptome  
Total RNA  
RNA minus rRNA, lRNA  
PolyA  
ncRNA  
Small RNA  
Protein:DNA  
Protein:RNA

DNA Fragments  
Adapters

11:24 AM | ffi-sqax-svb

Participants: Dr. Rajasekhara Reddy, Dr. Prem Kumar A, Dr. Sophie Lorrain, Loyola College C..., Pooja Sharma, Sheela S, SANI JAMILU, 92 others, You.

REC



Hari Charan

11:52 AM | ffi-sqax-svb

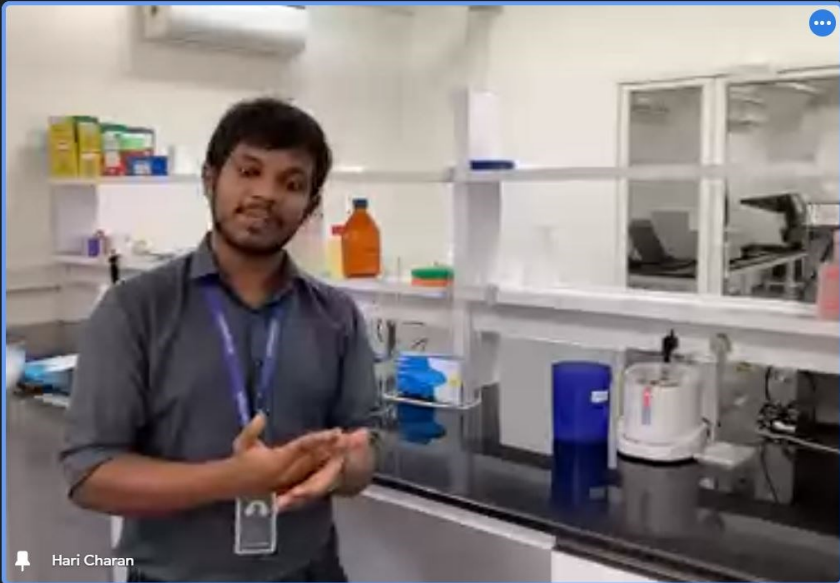
Dr Sophie Lorrain... Loyola College C... 21-PBT-013 DIVYA T

21-PBT-006 ARIB... Dr. Prem Kumar A Sheela S

pardeep yadav 91 others You

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REC



Hari Charan

12:02 PM | ffi-sqax-svb

Dr Sophie Lorrain... Loyola College ...

21-PBT-013 DIVY... 21-PBT-006 ARI...

Dr. Prem Kumar A Sheela S

87 others You