



## **VIMALA COLLEGE (AUTONOMOUS), THRISSUR**

**S195**

### **Report**

### **Academic Year 2020-2021**

**Name of the Event: National Webinar on " Applications of plant Tissue Culture "**

**Date: 09<sup>th</sup> September 2020**

**Time: 11:30 pm to 2:00 pm**

**Organized by: Department of Botany , Vimala College (Autonomous)**

**Collaboration (if any): Department of Biotechnology, Delhi**

**No. of participants: 95**

#### **Report**

A webinar on the topic " Applications of plant Tissue Culture " was organized by Department of Botany, Vimala College (Autonomous) Thrissur on **09<sup>th</sup> September 2020** under the financial assistance from DBT STAR College Scheme (Department of Biotechnology, Ministry of Science and Technology, Govt. of India). The major objectives of this outreach programme include providing an opportunity for the students to interact with resourceful personalities and enhancing their scientific knowledge. Through this, students could familiarize themselves with different topics and ask related questions directly to those who are involved in scientific research.

It was a virtual meeting through Google meet. The coordinator of the programme was Dr. Silvy Mathew (DBT Star College Scheme and Assistant Professor, Dept.of Botany). The student coordinators of the webinar were Sandra M S and Anshidha Thoombath (S6 BSc.Botany).The programme commenced with welcome address by Head of the Department, Dr. Sheeja T Tharakan. The webinar was led by the resource person, **Dr.E M Muralidharan**, Senior Principal Scientist, Department of Biotechnology, Forest Genetics and Biotechnology Division, Kerala Forest Research Institute, Peechi.

The session was of 2 1/2 -hours duration. Around 95 students participated. One of the major focus of the talk was how to get the clones of medicinal plants through the Plant Tissue Culture Technique. How to conserve rare or endangered plant species. Large-scale growth of plant cells in

***Assessment Period (2016 - 2021)***



## **VIMALA COLLEGE (AUTONOMOUS), THRISSUR**

liquid culture in bioreactors for production of valuable compounds, like plant-derived secondary metabolites and recombinant proteins used as biopharmaceuticals.

He informed about the applications of plant tissue culture. Plant tissue culture now has direct commercial applications as well as value in basic research into cell biology, genetics and biochemistry. The techniques include culture of cells, anthers, ovules and embryos on experimental to industrial scales, protoplast isolation and fusion, cell selection and meristem and bud culture.

Applications include:

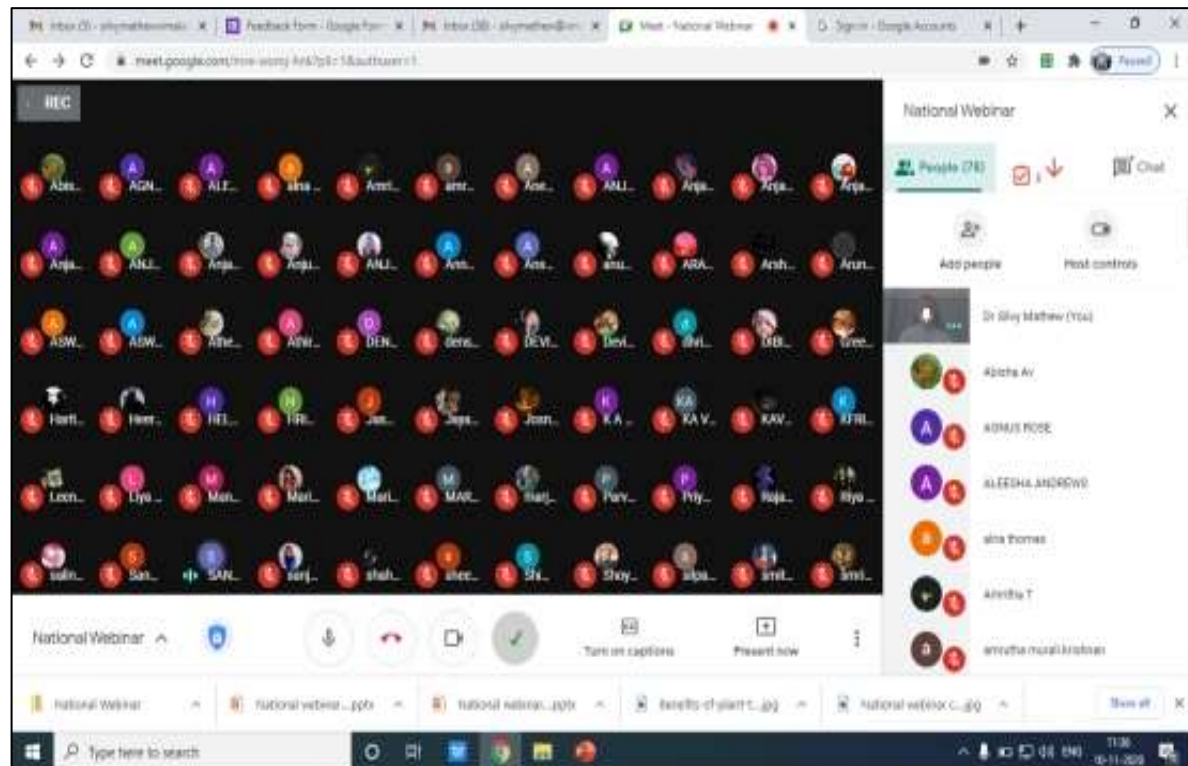
- ❖ micropropagation using meristem and shoot culture to produce large numbers of identical individuals
- ❖ screening programmes of cells, rather than plants for advantageous characters
- ❖ large-scale growth of plant cells in liquid culture as a source of secondary products
- ❖ crossing distantly related species by protoplast fusion and regeneration of the novel hybrid
- ❖ production of dihaploid plants from haploid cultures to achieve homozygous lines more rapidly in breeding programmes
- ❖ as a tissue for transformation, followed by either short-term testing of genetic constructs or regeneration of transgenic plants
- ❖ removal of viruses by propagation from meristematic tissues

The talk was followed by a discussion session, where students interacted, asked questions and cleared their doubts. The vote of thanks was proposed by Anshidha (S6 Bsc.Botany). The organizing committee members included Dr.Sheela T Tharakan and Ms.Smitha P S. The certificates for participation were provided to all the participants, through E-mail.



## VIMALA COLLEGE (AUTONOMOUS), THRISSUR

### Photos





## VIMALA COLLEGE (AUTONOMOUS), THRISSUR

### Brochure



**Vimala College (Autonomous), Thrissur**  
National Webinar in connection with  
National Science Day 2020  
Topic : Applications of Plant Tissue Culture



On 09<sup>th</sup>  
September 2020  
at 11.30am

**Funded by**  
DBT STAR College Scheme  
Department of Biotechnology  
Ministry of Science & Technology,  
Government of India

**Resource Person**  
  
**Dr.E M Muralidharan**  
Senior Principal Scientist  
Department of Biotechnology  
Forest Genetics and  
Biotechnology Division  
Kerala Forest Research  
Institute  
Peechi

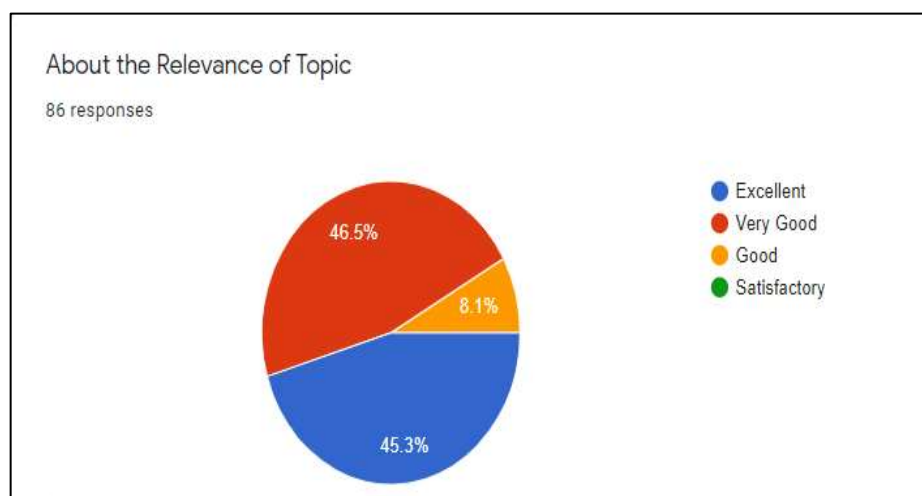
**Dr.Sr.Beena Jose**  
Principal

**For Contact:**  
Dr. Silvy Mathew  
Coordinator

**Organizing Committee**  
Dr.Sheela T Tharakan  
(Head, Dept. of Botany)  
Ms Smitha PS  
Dr.Manju Madhavan

**Student Coordinators**  
Sandra MS  
Anahidha Thoombathu

Feedback link for participants: <https://forms.gle/SwUcQEWWBMAm9iS18>



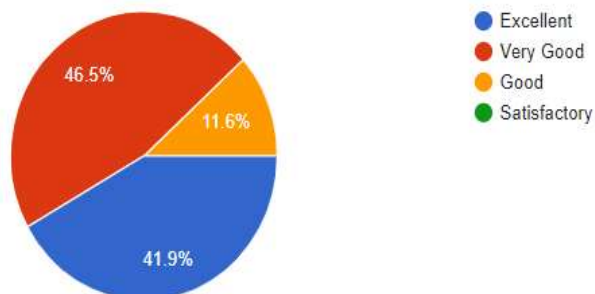
*Assessment Period (2016 – 2021)*



## VIMALA COLLEGE (AUTONOMOUS), THRISSUR

About the Speaker

86 responses



### List of Participants

Sl. No.	Name	Department	College
1.	Sandra M S	BSc.Botany	Vimala College), Thrissur
2.	Soja N S	Botany	Vimala College), Thrissur
3.	Anjana N	Botany	Vimala College), Thrissur
4.	Smitha P S	Botany	Vimala College), Thrissur
5.	Sona John	BA English	Vimala College), Thrissur
6.	Liyana K	Botany	Vimala College), Thrissur
7.	Rajana Rs	BSc Botany	Vimala College), Thrissur
8.	Shoy Mol Joy	Botany	Vimala College), Thrissur
9.	Shoy Mol	Botany	Vimala College), Thrissur
10.	Kaveri I J	Botany	Vimala College), Thrissur
11.	Arunima Francis	Botany	Vimala College), Thrissur
12.	Jesni Mariya John	Bsc.botany	Vimala College), Thrissur
13.	Aswathy N.M	Bsc Botany	Vimala College), Thrissur
14.	Dr. Jayalakshmi M	Botany	Vimala College), Thrissur
15.	Arathi. K	Botany	Vimala College), Thrissur
16.	Ms Sniga V O	BSc Botany	Vimala College), Thrissur
17.	Anju C	BSc BOTANY	Vimala College), Thrissur
18.	Mariya Sony	Botany	Vimala College), Thrissur
19.	Sneha Shaji	Bsc Botany	Vimala College), Thrissur
20.	Anna P Chiramel	Botany	Vimala College), Thrissur
21.	Heera Babu	BSc.Botany	Vimala College), Thrissur
22.	Sreelakshmi Thekkethara Subash	Botany	Vimala College), Thrissur
23.	Jasmina K.J	BSC.BOTANY	Vimala College), Thrissur
24.	Fathimathul Marjan. O. P	Bsc botany	Vimala College), Thrissur
25.	Abisha.Av	BSc.Botany	Vimala College), Thrissur
26.	Manju Madhavan	Botany	Vimala College), Thrissur
27.	Dhrisya P.M	BOTANY	Vimala College), Thrissur

*Assessment Period (2016 - 2021)*



## VIMALA COLLEGE (AUTONOMOUS), THRISSUR

28	Geethu	Botany	Vimala College), Thrissur
29	Devika Venugopal	Botany	Vimala College), Thrissur
30	Aswathy Vs	Bsc Botany	Vimala College), Thrissur
31	Ps Thaskeena Thasneem.	S4 Botany	Vimala College), Thrissur
32	Priyanka Mp	Botany	Vimala College), Thrissur
33	Silpa Narayanan	Botany	Vimala College), Thrissur
34	Shoy Mol Joy	Botany	Vimala College), Thrissur
35	Arsha Manoj	BSc Botany	Vimala College), Thrissur
36	Deneetta Francis	Botany	Vimala College), Thrissur
37	Anna P Chiramel	Botany	Vimala College), Thrissur
38	Sreelakshmi Pushpangathan	Bsc Botany	Vimala College), Thrissur
39	Josni C J	BSc Botany	Vimala College), Thrissur
40	Amrutha.C	BSc.Botany	Vimala College), Thrissur
41	Vidhya. K. B	Bsc botany	Vimala College), Thrissur
42	Sreelakshmi Es	Botany	Vimala College), Thrissur
43	Helna Nixon	Botany	Vimala College), Thrissur
44	Aleesha Andrews	BOTANY	Vimala College), Thrissur
45	Aneesha. A. A	Bsc. Botany	Vimala College), Thrissur
46	Devika V	Bsc botany	Vimala College), Thrissur
47	Anjana Unni	Botany	Vimala College), Thrissur
48	Mariya P.S	Bsc botany	Vimala College), Thrissur
49	Devika Mr	Botany	Vimala College), Thrissur
50	Anjana Ar	BSc.Botany	Vimala College), Thrissur
51	Chrislin Vincent.M	Bsc Botany	Vimala College), Thrissur
52	Amritha T	Botany	Vimala College), Thrissur
53	Anju C	BSc BOTANY	Vimala College), Thrissur
54	Mariya P.S	Bsc botany	Vimala College), Thrissur
55	Agnus Rose	BSc.Botany(S4)	Vimala College), Thrissur
56	Leen Babu	Bsc.botany	Vimala College), Thrissur
57	Densha Varghese	Botany	Vimala College), Thrissur
58	Atherin Rosna Vargheese	Bsc Botany	Vimala College), Thrissur
59	Aleesha Andrews	BOTANY	Vimala College), Thrissur
60	Sona Mariya N J	Botany	Vimala College), Thrissur
61	K A Ashna	Botany	Vimala College), Thrissur
62	Anshida Thoombath	Bsc.Botany	Vimala College), Thrissur
63	Jayalakshmi Gokuldas	Bsc botany	Vimala College), Thrissur
64	Anjana Unni	B. Sc. Botany	Vimala College), Thrissur
65	Greeshma M G	BOTANY	Vimala College), Thrissur
66	Dibiya P D	Bsc botany	Vimala College), Thrissur
67	Shilna P S	Botany	Vimala College), Thrissur
68	Akshaya A	Botany	Vimala College), Thrissur
69	Deepthy Theresa	Botany	Vimala College), Thrissur
70	Anakha Bineesh	Botany	Vimala College), Thrissur
71	Delrose Thomson	Bsc. Botany	Vimala College), Thrissur

*Assessment Period (2016 – 2021)*



## VIMALA COLLEGE (AUTONOMOUS), THRISSUR

72	Sruthy S	BSc Botany	Vimala College), Thrissur
73	Neethu K.M	BOTANY	Vimala College), Thrissur
74	Jo Kinn Mariya	BSc. Botony	Vimala College), Thrissur
75	Theresa P Chako	BSC. BOTANY	Vimala College), Thrissur
76	Soniya A	BSC BOTANY	Vimala College), Thrissur
77	Anjana. N. S	Botany	Vimala College), Thrissur
78	Sanjana Chacko	Botany	Vimala College), Thrissur
79	Sharafiya.K	Botany	Vimala College), Thrissur
80	Ann Maria Jacob	Botany	Vimala College), Thrissur
81	Sivarani R	Botany	Vimala College), Thrissur
82	Maria Baby	BSC botany	Vimala College), Thrissur
83	Anjali Pb	Botany	Vimala College), Thrissur
84	Femy Joy K	Botany	Vimala College), Thrissur
85	Akhila Mariya	Student	Vimala College), Thrissur
86	Sayana Babu	Student	Vimala College), Thrissur
87	Shaharban	Student	Vimala College), Thrissur
88	Anju Anil	Student	Vimala College), Thrissur
89	Akshaya	Student	Vimala College), Thrissur
90	Liyana	Student	Vimala College), Thrissur
91	Sruthy	Student	Vimala College), Thrissur
92	Ambili	Student	Vimala College), Thrissur
93	Anna Leen	Student	Vimala College), Thrissur
94	Aleena	Student	Vimala College), Thrissur
95	Anjali	Student	Vimala College), Thrissur

Head , Department of Botany ,Vimala College



PRINCIPAL IN-CHARGE  
VIMALA COLLEGE  
(AUTONOMOUS)  
THRISSUR - 680 009

*Assessment Period (2016 – 2021)*