


# DEPARTMENT OF BOTANY

## STUDENTS WEBINAR ORGANIZED

Sl no.	Name of the Seminar	Date	Number of participants	Number of students presented
1.	STUDENT WEBINAR ON "BIODIVERSITY AND ITS CONSERVATION"	8.10.2021	48	05



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(Affiliated to the University of Calcutta)  
Re- Accredited with 'B' Grade by NAAC  
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Ref. No. .... Date : 07/10/2021

Department of Botany

Notice

Here it is notify to all concern that a departmental online seminar on "Biodiversity and its conservation" by 5<sup>th</sup> Semester Honours students. It would be held on 8<sup>th</sup> October 2021 at 1 P.M. onwards through Google meet platform. Students are requested to join this seminar. Link would be provided by college.

Registration link: <https://forms.gle/BvXwJ5zd8M12iTYE7>



*Kaustubh Lahiri*  
Signature of Principal  
Dr. Kaustubh Lahiri  
Principal  
Dr. Kanailal Bhattacharyya College  
Ramrajatala, Howrah-4



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## UNIQUE PLANTS CONT....

Century palm- *Corypha elata*

- It produce seeds only once in its life time and dies.
- Female plants at the age of 75-100 years produce inflorescence.



Large palm house

Olivia is presenting



Mriganka



Sanyukta



You



Rim 26 others





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## UNIQUE PLANTS CONT....

Branched palm - *Hyphaene thebaica*Double coconut - *Lodoicea maldivica*

Olivia is presenting



Mriganka



Sanyukta



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### Plant tissue culture

Tissue culture , a method of biological research in which fragments of tissue from a plant are transferred to an artificial environment in which they can continue to survive and function. The cultured tissue may consist of a single cell or a whole or part of an organ. German botanist Haberlandt developed the concept of in vitro cell. The two main aspects of plant tissue culture are :



- ❖ Multiplication of a single cell in vitro.
- ❖ Development of a whole plant from proliferated tissue of this cell. The technique of cloning isolated single cell in vitro has demonstrated the fact that somatic cells, under appropriate conditions, can differentiate to a whole plant. This potential of a cell to grow and develop a multicellular or multiorgan higher organism is known as **cellular totipotency**.

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### Anther Culture Process

Explants used for anther culture is very critical as the anther lobes bearing the PMC (pollen mother cell) of correct divisional stage signify for being divided to form the callus mass or the direct haploid embryo. Young flower buds with immature anther lobes are surface sterilised and the stamens are taken out with the fine forcep, the filaments are removed and then one of them is crushed in acetocarmine stain and checked for proper stage i.e., just released from tetrad condition, released microspores are uninucleate and densely cytoplasmic preparing for the male gametophytic development. If it is found in the stage then the anthers are inoculated on proper media.

Within few days or weeks the anther walls may turn brown, the microspore within it divides to form either callus or embryos. Due to the inside pressure of developing microspores, the anther wall burst open and following the same tissue culture technique the embryos or the plantlets are subcultured in proper media to get the whole plant in rooted condition to be transferred into soil.

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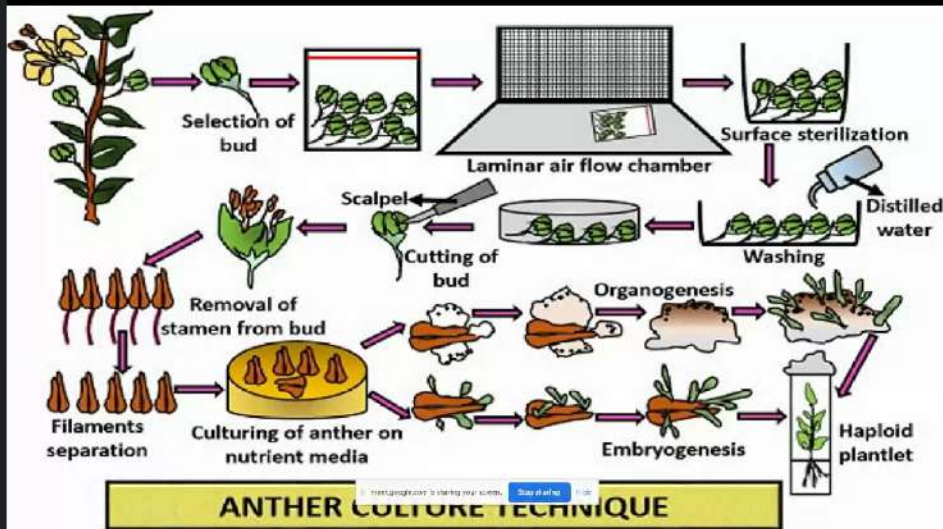


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### Pollen Culture

Pollen is a small grain consist of a few cells. To the naked eye it appere as yellowish dust like substance that is either dispersed by wind or insects. Pollen is formed within the sacs in the anthers that are located in plant flowers. The development of plant anther also involves the growth and differentiation of tissue that develop to produce the pollen sacs. This is then followed by a process of cell division that results in the information of clusters referred to as quarters with in pollen sac.



A plant that is pollinated by insects which is refferd to as anemophilous flower which are small and anther are versatile.

Pollen culture is also technique in which haploid plants are obtained from isolated pollen grains while in anther culture those are obtained from pollen.

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