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FACULTY OF ENGINEERING &
TECHNOLOGY

Course: B. Tech Biotechnology
Sub Code: BBT-515

Semester: 5th
Sub Name: Plant Biotechnology

LECTURE 7

Dr. NIHARIKA SINGH
Assistant Professor
Dept. of Biotechnology

STEPS IN PLANT TISSUE CULTURE TECHNIQUE

1. Selection of explant

- Any excised part e.g. root, leaf, bud, stem etc. from a healthy plant to be used.



2. Sterilization of explants

-This tissue must be sterilized to by sodium hypochlorite, mercuric chloride and should be washed aseptically to remove microbial contamination

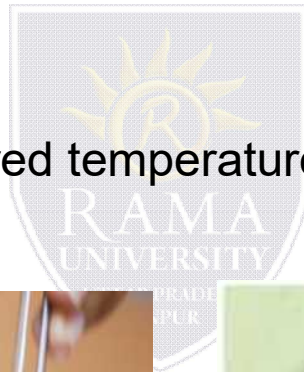


3. Transfer of the explant

-The sterile explant is transferred on solidified nutrient medium under aseptic condition.

4. Incubation

- Cultures are incubated at required temperature and conditions for specific time period.



5. Multiplication or Regeneration

-The explant gives rise to a callus (a mass of loosely arranged cells) which transferred into another medium for induction of roots and shoots.

-The callus may be subdivided a number of times.



QUIZ

