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PLANT TISSUE CULTURE Introduction - Tissue culture is in vitro cultivation of plant cell or tissue under aseptic and controlled environment conditions, in liquid or on semisolid well- defined nutrient medium for the production of primary and secondary metabolite or to regenerate plant.

Plant research often involves growing new plants in a controlled environment. These may be plants that we have genetically altered in some way or may be plants of which we need many copies all exactly alike. These things can be accomplished through tissue culture of small tissue pieces from the plant ...

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Introduction and techniques: introductory history laboratory organization media aseptic manipulation. Basic aspects: cell culture cellular totipotency somatic embryogenesis. Applications to plant breeding: haploid production triploid production in vitro pollination and fertilization zygotic embryo culture somatic hybridisation and cybridisation genetic transformation somaclonal and ...

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in suspension cultures and bioreactors. Introduction: A whole plant can be regenerated from a small tissue or plant cells in a suitable culture medium under controlled environment. The plantlets so produced are called tissue-culture raised plants. Plant tissue culture is the technique of growing plant cells, Tissue and organism the artificial

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Meristematic Tissue: • Cells of meristems divide continuously cells are similar in structure & have thin cellulose cell walls may be spherical, oval, polygonal or rectangular in shape

contain few vacuoles • Found in regions of the plant that grow, mainly at tip of root & stem. According to their position in the plant, meristems are apical ...

12 Plant tissue culture- an introduction 35 13 Micropropagation 40 14 Callus induction and production of secondary metabolites 44 15 Isolation of tannins, alkaloids from tissue culture grown tissue & characterization by GCMS& FTIR 46 16 Preparation of synthetic seeds 48 Animal Biotechnology 17 Preparation of primary culture 51

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Plant tissue culture breeding The process of selectively mating plants in aseptic culture. - Embryo rescue - Somaclonal variation selection - Somatic hybrid (i.e. fusion protoplast). - Generation of haploid (i.e. anther/microspore culture)

plant disease management. • Protection. Protect plants from infection. – Cultural practices. » Time of planting; Destruction of volunteers – Handling practices. » Mature potato tubers less prone to infection by late blight fungus. – Managing insect vectors. » Weed management – Fungicides.

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Plant Tissues: Overview Meristems, Simple Tissues, & Complex Tissues Meristematic tissues – localized regions of cell division Apical Meristems Primary or Transitional Meristem Primary growth Protoderm gives rise to epidermis Ground meristem gives rise to ground tissue Procambium gives rise to 1o vascular tissue Lateral Meristems Vascular cambium 2o vascular tissue Cork cambium or phellogen ...

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