

22Name_____

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Cells & Tissues

Objectives:

At the end of this activity, the students will be able to:

- Explain the significance of the cell as the fundamental unit of life.
- Describe and identify the unique features of a prokaryotic cell.
- Describe and identify the unique features of an animal cell.
- Describe the roles of the organelles in these cells.

The cell is the basic structural and functional unit of life. It has all the main structures to perform the basic activities to keep it alive: nutrition, respiration, responsiveness, reproduction, growth and adaptability.

The cells are either prokaryotic, meaning they have no membrane bound nucleus or they are eukaryotic, which have a membrane bound nucleus. There are however, more differences between prokaryotic and eukaryotic cells. The cell is made of protoplasm; its living portion. The protoplasm is organized into a nucleus and the cytoplasm.

Questions to answer:

1) What is the importance of a microscope in the study of the cell structures? (3 pts)

2) What organelles are present in plant but not in animal cells? (3 pts)

Chloroplast

Vacuole

Cell Wall

2 1 Plant Cells And Tissues Answer Key

Professor Dr. Y. P. S. Bajaj



2 1 Plant Cells And Tissues Answer Key:

Plant Cell, Tissue and Organ Culture Oluf Gamborg, Gregory C. Phillips, 2013-06-29 This manual provides all relevant protocols for basic and applied plant cell and molecular technologies such as histology electron microscopy cytology virus diagnosis gene transfer and PCR Also included are chapters on laboratory facilities operation and management as well as a glossary and all the information needed to set up and carry out any of the procedures without having to use other resource books It is especially designed for professionals and advanced students who wish to acquire practical skills and first hand experience in plant biotechnology

Transport in Plants II U. Lüttge, M.G. Pitman, 2012-12-06 As plant physiology increased steadily in the latter half of the 19th century problems of absorption and transport of water and of mineral nutrients and problems of the passage of metabolites from one cell to another were investigated especially in Germany JUSTUS VON LIEBIG who was born in Darmstadt in 1803 founded agricultural chemistry and developed the techniques of mineral nutrition in agriculture during the 70 years of his life The discovery of plasmolysis by NAGEL 1851 the investigation of permeability problems of artificial membranes by TRAUBE 1867 and the classical work on osmosis by PFEFFER 1877 laid the foundations for our understanding of soluble substances and osmosis in cell growth and cell mechanisms Since living membranes were responsible for controlling both water movement and the substances in solution permeability became a major topic for investigation and speculation The problems then discussed under that heading included passive permeation by diffusion Donnan equilibrium adjustments active transport processes and antagonism between ions In that era when organelle isolation by differential centrifugation was unknown and the electron microscope had not been invented the number of cell membranes their thickness and their composition were matters for conjecture The nature of cell surface membranes was deduced with remarkable accuracy from the reactions of cells to substances in solution In 1895 OVERTON in U S A published the hypothesis that membranes were probably lipid in nature because of the greater penetration by substances with higher fat solubility

Applied and Fundamental Aspects of Plant Cell, Tissue, and Organ Culture Jakob Reinert, Yashpal S. Bajaj, 2013-04-17 Progress in the field of plant cell and tissue culture has made this area of research one of the most dynamic and promising not only in plant physiology cell biology and genetics but also in agriculture forestry horticulture and industry Studies with plant cell cultures clearly have bearing upon a variety of problems as yet unsolved in basic and applied research This was the compelling reason for assembling such a comprehensive source of information to stimulate students teachers and research workers This book comprises 34 articles on regeneration of plants vegetative propagation and cloning haploids cytology cytogenetics and plant breeding protoplasts somatic hybridization and genetic engineering plant pathology secondary products and a chapter on isoenzymes radiobiology and cryobiology of plant cells Particular attention has been paid to modern fast growing and fascinating disciplines e g the induction of haploids somatic hybridization and genetic manipulation by protoplast culture which possess an enormous potential for plant improvement

Handbook on Plant and

Cell Tissue Culture NIIR Board of Consultants and Engineers, 2005-10-01 Plants cell tissue culture is a rapidly developing technology which holds promise of restructuring agricultural and forestry practices During the last two decades cell culture have made considerable advanced in the field of agriculture horticulture plant breeding forestry somatic cell genetics phytopathology etc Plant cells can be grown in isolation from intact plants in tissue culture systems The cells have the characteristics of callus cells rather than other plant cell types These are the cells that appear on cut surfaces when a plant is wounded and which gradually cover and seal the damaged area Plant cells and tissue culture are often used for the production of primary and secondary metabolites Plant tissue cultures can be initiated from almost any part of a plant The physiological state of the plant does have an influence on its response to attempts to initiate tissue culture The parent plant must be healthy and free from obvious signs of disease or decay The source termed explant may be dictated by the reason for carrying out the tissue culture Younger tissue contains a higher proportion of actively dividing cells and is more responsive to a callus initiation programme The plants themselves must be actively growing and not about to enter a period of dormancy Plant tissue culture is used widely in plant science it also has a number of commercial applications Tissue culture is employed in micropropagation elimination of pathogens from plant materials germoplasm storage production of somaclonal variants embryo rescue production of haploids production of artificial seeds production of secondary metabolites production of transgenic plants etc Some of the fundamentals of the book are plant tissue culture basic requirements for tissue culture laboratory surface sterilization of explant materials development of tissue culture techniques principles of cell culture cell special factors influencing growth and metabolism media for culturing cells and tissues sterilisation procedures design and equipment of a tissue culture laboratory isolation method for microorganisms for culture culture preservation and stability genetic modification of industrial microorganisms mutation etc The present book discuss about the methods culture preservation and stability procedures storage and transportation of plant cell tissue culture This book is an invaluable resource for research workers students technocrats entrepreneurs institutional libraries etc TAGS Plant Tissue Culture in India Commercialization of Plant Tissue Culture in India Role of Plant Tissue Culture in Agriculture Plant Tissue Culture Industry in India Industrial Plant Tissue Culture Tissue Culture in Agriculture Plant Tissue Culture Tissue Culture Cell Culture and Tissue Culture Tissue Culture and Cell Culture Tissue Culture in Plants Plant Cell and Tissue Culture Commercial Plant Tissue Culture in India Plant Tissue Culture Business Plan Plant Tissue Culture and Biotechnology Tissue Culture Plants Plant Tissue Culture Business Plan Business Opportunities in Plant Tissue Culture Tissue Culture Methods Cybrid Production Process of Cybrids Production of Cybrids Production of Cybrid Plants Production of Haploid Plants Haploid Production Plant Secondary Metabolism Production of Secondary Metabolites Production of Secondary Metabolites Using Plant Cell Cultures Plant Tissue Cultures in Production of Secondary Metabolites Secondary Metabolites Production Production of Somatic Hybrid Plants Somatic Hybridization of Plants Somatic Hybrid Somatic Hybrid Production

Production of Enriched Biomass Enrichment on Biomass Production Formulation of Tissue Culture Medium Collection of
 Explant Materials Subculture of Callus Regeneration of Plants from Callus Preparation of Chick Embryo Extract Preparation
 of Embryo Extract from Young Embryos Preparation of Bovine Embryo Extract Preparation of Eagles Medium Media for Plant
 Tissues Organ Culture Preparation of Trypsinised Embryonic Carcass Enrichment Culture Methods Genetic Modification of
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 and Fungi Mixed Culture and Mixed Substrate Systems Spontaneous Mixed Culture Process Maintenance of Protoplasts
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 Metabolites Preparation of Explant Suspension Culture Extraction of Secondary Metabolites Biotransformation in Plant Cells
 Immobilization of Plant Cells Special Tissue Culture Media Manufacturing Plant Cultures Products from Plant Tissue Culture
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