

Banana DNA Extraction Lab

Objectives:

Describe where DNA is located in a plant cell.

Explain what procedures are required to release DNA from a plant cell

Observe the extraction of Genomic DNA from plant cells.

Name: _____

My Mark: _____/15

Teacher Mark: _____/15

Full of DNA

What can we tell about the molecular structure of DNA by studying the characteristics of DNA when we purify it from bananas?

Background: We will break open the cells of bananas and isolate the DNA from the rest of the cell debris. Bananas are a good source of DNA because some bananas are diploid (2 copies of each chromosome – 22 chromosomes in total) and others are even triploid banana (3 copies of each chromosome). You will never be able to eat a banana again without thinking of how much DNA is in it!



Introduction:

The process of isolating DNA from a cell is the first step of many laboratory procedures in biotechnology. The scientist must be able to separate the DNA from the unwanted substances of the cell gently enough so that the DNA is not broken up and sheared.

A "filtrate" is made of bananas and treated with a buffer containing salt (NaCl) and distilled water. . The salt solution acts as a buffer to maintain a constant pH and binds up the positive ions to prevent enzymes (DNases) from chewing up the DNA. The salt shields the negative phosphates of the DNA which allows these ends to come closer so that they can precipitate out of a cold alcohol solution. A detergent is added which causes the cell membrane to break down by emulsifying the lipids and proteins which allows the cell membrane to break apart.

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Biology Insights Of Practical Wb ,2007 **Sif Biology Of Practical Wb** ,2007 *Proceedings of the International Symposium on Recent Advances in Banana Crop Protection for Sustainable Production and Improved Livelihoods* Inge Van den Bergh,David Robert Jones,2009

Applied and Environmental Microbiology ,1997 **Industrially Important**

Fungi for Sustainable Development Ahmed M. Abdel-Azeem,Ajar Nath Yadav,Neelam Yadav,Minaxi Sharma,2021-12-02

Fungi are an essential fascinating and biotechnologically useful group of organisms with an incredible biotechnological potential for industrial exploitation Knowledge of the world's fungal diversity and its use is still incomplete and fragmented There are many opportunities to accelerate the process of filling knowledge gaps in these areas The worldwide interest of the current era is to increase the tendency to use natural substances instead of synthetic ones The increasing urge in society for natural ingredients has compelled biotechnologists to explore novel bioresources which can be exploited in industrial sector Fungi due to their unique attributes and broad range of their biological activities hold great promises for their application in biotechnology and industry Fungi are an efficient source of antioxidants enzymes pigments and many other secondary metabolites The large scale production of fungal pigments and their utility provides natural coloration without creating harmful effects on entering the environment a safer alternative use to synthetic colorants The fungal enzymes can be exploited in wide range of industries such as food detergent paper and also for removal toxic waste This book will serve as valuable source of information as well as will provide new directions to researchers to conduct novel research in field of mycology Volume 2 of Industrially Important Fungi for Sustainable Development provides an overview to understanding bioprospecting of fungal biomolecules and their industrial application for future sustainability It encompasses current advanced knowledge of fungal communities and their potential biotechnological applications in industry and allied sectors The book will be useful to scientists researchers and students of microbiology biotechnology agriculture molecular biology and environmental biology

Journal of Experimental Biology ,2003 **Applied Plant Virology** L. P. Awasthi,2020-05-14

Applied Plant Virology Advances Detection and Antiviral Strategies provides an overview on recent developments and applications in the field of plant virology The book begins with an introduction to important advances in plant virology but then covers topics including techniques for assay detection and the diagnosis of plant viruses the purification isolation and characterization of plant viruses the architecture of plant viruses the replication of plant viruses the physiology of virus infected hosts vectors of plant viruses and the nomenclature and classification of plants The book also discusses defense strategies by utilizing antiviral agents and management strategies of virus and viroid diseases With contributions from an international collection of experts this book presents a practical resource for plant virologists plant pathologists horticulturalists agronomists biotechnologists academics and researchers interested in up to date technologies and information that advance the field of plant virology Covers the detection control and management of plant viruses Discusses

antiviral strategies along with mechanisms of systemic induced resistance to enhance the defense of plants against viruses
Provides contributory chapters from expert plant virologists from different parts of the world Proceedings of the International Cashew and Coconut Conference ,1998 Country reports cashew agronomy cashew biotechnology cashew breeding cashew extension cashew entomology cashew marketing cashew pathology cashew planting material production coconut agronomy coconut biotechnology coconut breeding coconut extension coconut entomology coconut marketing coconut pathology coconut planting material production Plant Breeding Abstracts ,1998 Agrindex ,1995

Bacteriological Proceedings American Society for Microbiology,American Society for Microbiology. Meeting,Society of American Bacteriologists,1977 Abstracts of the annual meeting **Science Citation Index** ,1994 Vols for 1964 have guides and journal lists Abstracts of the Annual Meeting of the American Society for Microbiology American Society for Microbiology. Annual Meeting,1975 *Government Reports Announcements & Index* ,1986-08 **Oceanic Abstracts** ,1995-11 Bibliography of Agriculture ,1999 **B.A.S.I.C.** ,1969 **Bibliography of Agriculture with Subject Index** ,1994 *Bulletin signalétique* Centre national de la recherche scientifique (France). Centre de documentation,1964

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web aug 9 2022 a haiku is a type of japanese poem that always uses the same number of syllables in a three line format the first line is five syllables the second line is seven syllables the third line is five syllables unlike other poems haikus usually don t rhyme