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Partner: Kristian Karl O. Gonzales

Date: October 6, 2022
Group: 3/C

I. Title: DNA Plant Extraction Experiment (Onion DNA Kitchen Extraction)

II. Objectives:

This experiment is anchored to achieve the following objectives:

- To understand and familiarize the laboratory techniques and methods in a DNA extraction.
- To be able to extract the deoxyribonucleic acid (DNA) from watermelon and mango using table salt and detergent solution, and ethanol.
- To be able to compare the extracted DNA from different plant/sample sources (e.g., onion and garlic)

III. Brief Overview

All of the genetic information required for regulating cellular growth and development is contained in the polymer DNA, which may be found in all living cells. Numerous genetic illnesses are caused by errors in DNA. DNA is found inside a nucleus that is attached to a membrane in complex cells, such as those in multicellular animals and plants. Cells and related membranes must be broken down in order to isolate DNA. Dozens of other biological components can then be separated from a crude sample of DNA.

Usually, in a biochemistry laboratory, cell membranes are first disrupted by crushing them in a buffered detergent solution. The detergent weakens cellular membranes and inhibits nucleases, which are enzymes that would break down DNA. The detergent solution is usually buffered to pH 8 because slightly basic conditions make DNA more soluble and stable. High purity of Ethanol may be added to the extract in order to precipitate the DNA from the cellular solution. Because cells include ribonucleic acid (RNA) and dozens of different proteins, which will also precipitate in this process, the DNA produced in this way won't be pure. If DNA had to be extracted from these other materials, several more purification stages would be necessary.

Onion From Dna Formal Report

**Melinda A. Zeder, Daniel Bradley, Eve
Emshwiller, Bruce D. Smith**

Onion From Dna Formal Report:

Documenting Domestication Melinda A. Zeder, Daniel Bradley, Eve Emshwiller, Bruce D. Smith, 2006-06-20 Agriculture is the lever with which humans transformed the earth over the last 10 000 years and created new forms of plant and animal species that have forever altered the face of the planet In the last decade significant technological and methodological advances in both molecular biology and archaeology have revolutionized the study of plant and animal domestication and are reshaping our understanding of the transition from foraging to farming one of the major turning points in human history This groundbreaking volume for the first time brings together leading archaeologists and biologists working on the domestication of both plants and animals to consider a wide variety of archaeological and genetic approaches to tracing the origin and dispersal of domesticates It provides a comprehensive overview of the state of the art in this quickly changing field as well as reviews of recent findings on specific crop and livestock species in the Americas Eurasia and Africa Offering a unique global perspective it explores common challenges and potential avenues for future progress in documenting domestication

Trade, Development and Environment Great Britain: Parliament: House of Commons: Environmental Audit Committee, 2006-08-16 This report finds that Department for International Development DFID has the potential to take the lead internationally on integrating the environment into development the structures and links exist but there is still an under appreciation of the role of the environment in sustainable development The report sets out the background covering what poor people want the Millennium Ecosystem Assessment and Millennium Development Goals It then considers development aid and how it is changing Then the DFID s performance in integrating environment into development is critically examined Subjects covered include DFID policy water climate and energy agriculture growth environmental capacity environmental screening and the environment strategy The Committee notes the failure of the Department to develop a coherent approach on the ground as a damning review of country programmes has shown It also highlights many areas where policy is poorly drafted and implemented and where the Department s environmental expertise has been allowed to wither The recent White Paper Eliminating world poverty 2006 Cm 6876 ISBN 0101687621 is seen as a missed opportunity to make the environment as central to its work as the Department itself has made clear it should be **Cumulated Index Medicus**, 1967

Archaeological Science Under a Microscope Michael Haslam, Gail Robertson, Alison Crowther, Sue Nugent, Luke Kirkwood, 2009-07-01 These highly varied studies spanning the world demonstrate how much modern analyses of microscopic traces on artifacts are altering our perceptions of the past Ranging from early humans to modern kings from ancient Australian spears or Mayan pots to recent Maori cloaks the contributions demonstrate how starches raphides hair blood feathers resin and DNA have become essential elements in archaeology s modern arsenal for reconstructing the daily spiritual and challenging aspects of ancient lives and for understanding human evolution The book is a fitting tribute to Tom Loy the pioneer of residue studies and gifted teacher who inspired and mentored these exciting projects Allium Crop

Science Haim D. Rabinowitch, Lesley Currah, 2002 The Alliums are some of the most ancient cultivated crops and include onions garlic leeks and other related plants This book provides an up to date review of Allium science for postgraduates and researchers It contains commissioned chapters on topics that have shown major advances particularly in the last ten years such as molecular biology floriculture and biofertilizers *Encyclopedia of Food Safety*, 2013-12-12 With the world's growing population the provision of a safe nutritious and wholesome food supply for all has become a major challenge To achieve this effective risk management based on sound science and unbiased information is required by all stakeholders including the food industry governments and consumers themselves In addition the globalization of the food supply requires the harmonization of policies and standards based on a common understanding of food safety among authorities in countries around the world With some 280 chapters the Encyclopedia of Food Safety provides unbiased and concise overviews which form in total a comprehensive coverage of a broad range of food safety topics which may be grouped under the following general categories History and basic sciences that support food safety Foodborne diseases including surveillance and investigation Foodborne hazards including microbiological and chemical agents Substances added to food both directly and indirectly Food technologies including the latest developments Food commodities including their potential hazards and controls Food safety management systems including their elements and the roles of stakeholders The Encyclopedia provides a platform for experts from the field of food safety and related fields such as nutrition food science and technology and environment to share and learn from state of the art expertise with the rest of the food safety community Assembled with the objective of facilitating the work of those working in the field of food safety and related fields such as nutrition food science and technology and environment this work covers the entire spectrum of food safety topics into one comprehensive reference work The Editors have made every effort to ensure that this work meets strict quality and pedagogical thresholds such as contributions by the foremost authorities in their fields unbiased and concise overviews on a multitude of food safety subjects references for further information and specialized and general definitions for food safety terminology In maintaining confidence in the safety of the food supply sound scientific information is key to effectively and efficiently assessing managing and communicating on food safety risks Yet professionals and other specialists working in this multidisciplinary field are finding it increasingly difficult to keep up with developments outside their immediate areas of expertise This single source of concise reliable and authoritative information on food safety has more than ever become a necessity **Hearing to Review the Legal and Technological Capacity for Full Traceability in Fresh Produce** United States. Congress. House. Committee on Agriculture. Subcommittee on Horticulture and Organic Agriculture, 2009 *Government Reports Announcements & Index*, 1985 *Kumar and Clark's Clinical Medicine E-Book* Adam Feather, David Randall, Mona Waterhouse, 2016-06-29 The ninth edition of this best selling textbook of clinical medicine builds even further on its formidable prize winning formula of excellence comprehensiveness and accessibility This book is stunning in its breadth and

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web 1 sodium hydroxide solution is poured into a beaker of hydrochloric acid which contains a thermometer showing room temperature 2 the beaker now contains sodium chloride and water and the

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web reacting two solutions eg acid and alkali place the polystyrene cup inside the glass beaker to make it more stable measure an appropriate volume of each liquid eg 25 cm³ 3 place one of the

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web for reactions involving acetic acid or ammonia the measured enthalpy change of neutralization is a few kJ less exothermic than with strong acids and bases for example one source which gives the enthalpy change of neutralization of sodium hydroxide solution with HCl as 57.9 kJ mol⁻¹

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web sep 20 2014 i will illustrate this with some examples when an acid is neutralised by an alkali the reaction is exothermic eg 1 HCl(aq) + NaOH(aq) → NaCl(aq) + H₂O(l) for which ΔH = 57 kJ mol⁻¹ eg 2 HNO₃(aq) + KOH(aq) → KNO₃(aq) + H₂O(l) for which ΔH = 57 kJ mol⁻¹

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web the enthalpy change of neutralisation is defined as the enthalpy change when solutions of an acid and alkali react together to produce one mole of water for example HCl(aq) + NaOH(aq) → NaCl(aq) + H₂O(aq) you can see that one mole of water is produced when one mole of HCl or one mole of NaOH reacts