

Lab week 4

Isolation of Microorganisms from soil, water and air

Aim:

To isolate bacteria and fungi from soil, water and air and to observe the physical characteristics such as colony shape, color, etc., to qualitatively understand the diversity of microbes in the environment and approximately enumerate the diversity.

Introduction:

Microorganisms are ubiquitous. We find them in soil, air, water, food, and sewage, on body surfaces. In short, every area of our environment is replete with them. Microorganisms have a considerable impact in the environment as well as in our daily lives, as they can gradually modify an ecosystem, cause disease to plants, animals, and humans or they may be used for the production of compounds such as antibiotics, vaccines, enzymes added to detergents, or food such as wine and yoghurt.

Isolating microbes such as bacteria from sources like soil, water and air is an important first step in many microbiology experiments. Once they are isolated, bacteria can be further analyzed to study their genetic, physiological and biochemical characteristics, so that we can understand their function in a given environment. For e.g., the diversity and the population count of microbes can indicate the biotic nature of soil in a region. Similarly, the quality of water can also be indicated by microbial diversity.

Experimental Procedure:

Since the quantity of microbes can be more than a million in soil or water, it is recommended to dilute the sample. This method of isolating microorganisms is called serial dilution technique, depicted in the figure below:



The dilutions has to be prepared in sterile saline solution (0.9%).

A. Isolation from soil sample:

1. Weigh 1 g of soil and suspend it in 9 mL of sterile saline solution. Mix thoroughly.

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Biological Investigations Lab Manual Warren Dolphin, David Vleck, Linda Westgate, James Colbert, 2010-01-27 The lead author of eight successful previous editions has brought together a team that combined has well over 60 years experience in offering beginning biology labs to several thousand students each year at Iowa State University Their experience and diverse backgrounds ensure that this extensively revised edition will meet the needs of a new generation of students Designed to be used with all majors level general biology textbooks the included labs are investigative using both discovery and hypothesis based science methods Students experimentally investigate topics observe structure use critical thinking skills to predict and test ideas and engage in hands on learning Students are often asked what evidence do you have that in order to encourage them to think for themselves By emphasizing investigative quantitative and comparative approaches to the topics the authors continually emphasize how the biological sciences are integrative yet unique An instructor s manual available through McGraw Hill Lab Central provides detailed advice based on the authors experience on how to prepare materials for each lab teachings tips and lesson plans and questions that can be used in quizzes and practical exams This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology

Symbiosis Surindar Paracer, Vernon Ahmadjian, 2000 Taking account of developments over the last decade this 2nd edition addresses advances in the field and the emergence of fields such as cellular microbiology immunoparasitology and cytobiology which have revealed new aspects of symbiosis

Proceedings American Society for Engineering Education, 1988

Understanding Cancer Buddhi Prakash Jain, Shweta Pandey, 2022-01-13 Understanding Cancer From Basics to Therapeutics presents both basic concepts and research prospects in the field of cancer biology This book summarizes the fundamental aspects of cancer and presents a detailed description of molecular aspects as well as treatment and therapeutics for patients The book is divided into three parts the first part deals with the basics of cancer including etiology and medical diagnosis the second part explores the molecular mechanisms associated with cancer focusing on cell cycle and apoptosis cell metabolism gene regulation epigenetics and stem cells and the third part is dedicated to therapeutics discussing chemo and radiotherapies gene hormone herbal and immunotherapies It is a valuable resource for cancer researchers oncologists graduate students and biomedical researchers who need to understand the fundamental topics related to cancer to apply to their research work or clinical setting Presents fundamental aspects of cancer in a didactic way to make the content easily applicable by readers Illustrates the content through detailed images developed by the authors exclusively for the book to facilitate comprehension Summarizes the content of each chapter with several tables and schematic diagrams for quick consult

Proceedings American Society for Engineering Education. Conference, 1988

Herringshaw's American Blue-book of Biography, 1914

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