

Real-World Biology: Analysis, Extending Our Senses continued

Part B: Using Microscopes to Examine Evidence

The Student Council room at Central High has been set up for a crime scene investigation. Three weeks ago, Mrs. Sarah Roberts, the biology teacher, was writing a test in the lab. Her lunch was on the table where she was working. Suddenly, the fire alarm rang. Mrs. Roberts promptly left the building and, in her haste, left the lab door open. She was surprised to see a large group of people outside the building, most of them with animals. She thought this was a little unusual but soon forgot about it. When Mrs. Roberts returned to the lab, she found that her lunch was missing.

Background Information

Red blood cells of mammals do not have nuclei.

Red blood cells of nonmammals have nuclei.

Cancer cells lack contact inhibition. They continue to grow, forming layers of cells. The cells grow randomly in culture.

Normal skin cells grow in culture until they physically come in contact with each other. Growth then stops. This is called contact inhibition. The cells do not grow randomly, but are oriented in a particular direction.

Laboratory Test Results

Debris from the floor: sand and hay

Blood sample: Red blood cells have nuclei.

Skin sample: Was cultured; cells were found to have contact inhibition and be oriented in a particular direction.

She looked around the room and saw some things that had not been there when she left. There was some kind of debris on the floor. A small piece of human skin was stuck to a broken beaker. Nearby was a trail of blood. The security chief arrived, collected the three pieces of evidence, and ordered laboratory reports on each. The laboratory used microscopes to examine the skin and blood samples. The security chief then apprehended four suspects. All were in the vicinity of the building on the day of the theft. The following information is listed on the evidence bulletin board. You must use this information to determine who stole the lunch bag.

Suspects

Suspect 1

- Spends weekends on the beach
- Works as a dishwasher
- Is being treated for skin cancer
- Has a poodle named Fifi with a bandaged leg

Suspect 2

- Works in a stone quarry
- Doesn't go anywhere without his pet frog, Croak, last seen with a bandaged webbed foot

Suspect 3

- Lives on a farm
- Recently spent a week at the shore
- Never goes anywhere without her bird, Polly, last seen nursing a hurt wing

Suspect 4

- Lives on Main Street above the bagel shop
- Said he shaves hourly
- Has a pet iguana that he recently took to the vet

(Adapted from Surmacz, C., *Association for Biology Laboratory Education*)

Analyze and Conclude

Respond to the following statement.

1. **Deduce** After reviewing the evidence information, deduce the identity of the thief. Explain how you arrived at your answer.

Real World Biology Analysis Answers

Thomas Griffiths



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Tools, Techniques, and Strategies for Teaching in a Real-World Context With Microbiology Davida Smyth, Nichole A. Broderick, Laura Bowater, Carlos C. Goller, 2021-12-02 **Real World Instructional Design** Katherine Cennamo, Debby Kalk, 2019-01-15 An ideal textbook for instructional designers in training Real World Instructional Design emphasizes the collaborative iterative nature of instructional design Positioning instructional design as a process of simultaneous rather than sequential tasks with learner centered outcomes this volume engages with the essential building blocks of systematically designed instruction learner needs and characteristics goals and objectives instructional activities assessments and formative evaluations Key features include a Designer's Toolkit that includes tips and approaches that practitioners use in their work vignettes and narrative case studies that illustrate the complexities and iterative nature of instructional design and forms templates and questionnaires to support students in applying the chapter content With updated examples this streamlined second edition presents a timeless approach to instructional design *Robotics Interview Questions and Answers* Manish Soni, 2024-11-13 Welcome to Robotics Interview Questions and Answers a comprehensive guide designed to navigate the dynamic world of robotics through a lens of inquiry and exploration In the pages that follow you will embark on a journey through the fascinating realm of robotics uncovering a myriad of topics that span the breadth and depth of this transformative field This book seeks to provide not only a wealth of knowledge but also a practical resource for individuals aspiring to delve into the world of robotics or those seeking to enhance their understanding of its myriad facets In the age of automation artificial intelligence and the Internet of Things robotics has emerged as a pivotal force shaping our future From manufacturing floors to healthcare settings from deep space exploration to our own living rooms robots have become an integral part of our daily lives Whether you seek to gain knowledge for interviews academic pursuits or simply to satisfy your curiosity about the incredible world of robotics this book is designed to be your trusted companion It serves as a roadmap to understanding the fundamentals the nuances and the future possibilities that robotics holds **Bioengineering Solutions in Surgery: Advances, applications and solutions for clinical translation** Claudia Di Bella, Patrick Toby Coates, Payal Mukherjee, Jetze Visser, Zhilian Yue, 2022-02-22 **Cancer Systems Biology** Ravi Salgia, Mohit Kumar Jolly, Prakash Kulkarni, Govindan Rangarajan, 2025-09-04 Over the centuries civilization has seen considerable advances in healthcare Cancer is among the most challenging healthcare issues that we face today but a number of discoveries have led to better care Despite all the progress and the promise regarding early detection and precision medicine we are still faced with the nettlesome problem cancer is a moving target Even within an individual tumour deep sequencing analyses now indicate multiple phenotypically distinct subpopulations whose representation seems to vary dramatically from one stage to the next as the tumour progresses Cancer Systems Biology provides state of the art reviews and thought provoking ideas in a concise and succinct manner This insightful textbook is a crosspollination of concepts from multiple disciplines and experimental

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Mathematics for the Life Sciences Glenn Ledder, 2013-08-29 Mathematics for the Life Sciences provides present and future biologists with the mathematical concepts and tools needed to understand and use mathematical models and read advanced mathematical biology books It presents mathematics in biological contexts focusing on the central mathematical ideas and providing detailed explanations The author assumes no mathematics background beyond algebra and precalculus Calculus is presented as a one chapter primer that is suitable for readers who have not studied the subject before as well as readers who have taken a calculus course and need a review This primer is followed by a novel chapter on mathematical modeling that begins with discussions of biological data and the basic principles of modeling The remainder of the chapter introduces the reader to topics in mechanistic modeling deriving models from biological assumptions and empirical modeling using data to parameterize and select models The modeling chapter contains a thorough treatment of key ideas and techniques that are often neglected in mathematics books It also provides the reader with a sophisticated viewpoint and the essential background needed to make full use of the remainder of the book which includes two chapters on probability and its applications to inferential statistics and three chapters on discrete and continuous dynamical systems The biological content of the book is self contained and includes many basic biology topics such as the genetic code Mendelian genetics population dynamics predator prey relationships epidemiology and immunology The large number of problem sets include some drill problems along with a large number of case studies The latter are divided into step by step problems and sorted into the appropriate section allowing readers to gradually develop complete investigations from understanding the biological assumptions to a complete analysis

Real World Psychology Catherine A. Sanderson, Karen R. Huffman, 2024-11-13 A comprehensive college level introduction to the field of psychology Real World Psychology Applications of Psychological Science provides a well balanced survey of the field with emphasis on scientific thinking and practical applications of psychological science that can expand enhance and change students experience of the world around them Every chapter engages students through illustrative examples and cases thought provoking questions and real psychological research Updated with recent research that underscores the importance and power of psychology in everyday life the fourth edition of Real World Psychology invites curiosity in a Why focused framework of special features Why Scientific Thinking Matters develops scientific thinking skills through examination of a hot topic or common belief and the research supporting or

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Algorithms and Models for the Web Graph Megan Dewar, Paweł Prałat, Przemysław Szufel, François Théberge, Małgorzata Wrzosek, 2023-05-15 This book constitutes the proceedings of the 18th International Workshop on Algorithms and Models for the Web Graph WAW 2023 held in Toronto Canada in May 23-26 2023 The 12 Papers presented in this volume were carefully reviewed and selected from 21 submissions The aim of the workshop was understanding of graphs that arise from the Web and various user activities on the

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Professor Orit Hazzan is a faculty member at the Technion's Department of Education in Science and Technology since October 2000. Her research focuses on computer science, software engineering, and data science education. Within this framework, she studies the cognitive and social processes on the individual, the team, and the organization levels in all kinds of organizations. Dr. Koby Mike is a Ph.D. graduate from the Technion's Department of Education in Science and Technology under the supervision of Professor Orit Hazzan. He continued his post-doc research on data science education at the Bar Ilan University and obtained a B.Sc. and an M.Sc. in Electrical Engineering from Tel Aviv University.

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web other descriptions of the lab can be easily found if you do a web search for micro rocket lab or mole rocket lab there is a time investment to build the nozzles for the gas generators and the piezo ignition devices but after that initial investment lab set up is fast and simple in future years i have attached the handout i give

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web this lab is an excellent an introduction to limiting excess reagents where students turn the bulb of a plastic beral style pipette into a micro scale rocket different ratios of hydrogen oxygen are collected in the bulb and the most explosive mixture used to shoot the rocket across the room

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web stoichiometry limiting reactants background hydrogen the most abundant element in the universe is a colorless odorless gas it is combustible which means that it burns quite readily hydrogen gas is conveniently generated in the lab by the reaction of zinc metal with hydrochloric acid

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web step 7 launch the rocket once the desired amount of gas is put into the rocket carefully put the rocket over top of the ignition apparatus make sure that there is still a small amount of water in the bottom to act as a propellant make sure the way is clear do a count down and spark the rocket

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