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6. Place the test tubes in a hot water bath □ 7. If the contents change from light blue to green/yellow/orange in the test tube □ then the enzyme has digested starch to glucose□ and the

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This volume investigates a number of issues needed to develop a modular, effective, versatile, cost effective, pedagogically-embedded, user-friendly, and sustainable online laboratory system that can deliver its true potential in the national and global arenas. This allows individual researchers to develop their own modular

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systems with a level of creativity and innovation while at the same time ensuring continuing growth by separating the responsibility for creating online laboratories from the responsibility for overseeing the students who use them. The volume first introduces the reader to several system architectures that have proven successful in many online laboratory settings. The following chapters then describe real-life experiences in the area of online laboratories from both technological and educational points of view. The volume further collects experiences and evidence on the effective use of online labs in the context of a diversity of pedagogical issues. It also illustrates successful online laboratories to highlight best practices as case studies and describes the technological design strategies, implementation details, and classroom activities as well as learning from these developments. Finally the volume describes the creation and deployment of commercial products, tools and services for online laboratory development. It also provides an idea about the developments that are on the horizon to support this area.

Systems biology combines computational and experimental approaches to analyze complex biological systems and focuses on understanding functional activities from a systems-wide perspective. It provides an iterative process of experimental measurements, data analysis, and computational simulation to model biological behavior. This book provides explained protocols for high-throughput experiments and computational analysis procedures central to cancer systems biology research and education. Readers will learn how to generate and analyze high-throughput data, therapeutic target protein structure modeling and docking simulation for drug discovery. This is the first practical guide for students and scientists who wish to become systems biologists or utilize the approach for cancer research. Contents: Introduction to Cancer Systems Biology (Hsueh-Fen Juan and Hsuan-Cheng Huang) Transcriptome Analysis: Library Construction (Hsin-Yi Chang and Hsueh-Fen Juan) Quantitative Proteome: The

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The purpose of *The Ethical Professor* is to provide a road map to some of the ethical dilemmas that doctoral students and newer faculty members are likely to face as they enter a career in academia (the Academy). Academic career paths appear to be quite standard, transparent, and achievable with dedicated and hard work. Argued in this book, however, is that the road map to a successful academic career is not so easy. There are ethical pitfalls along the way, starting with entry into academia as a new PhD student. These ethical dilemmas remain equally opaque as faculty progress in their careers. The ethical pitfalls that plague each of the steps along the academic career path are often not visible to doctoral students and

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young faculty members; nor are they well prepared to spot them. Ethical issues are seldom discussed and little training is provided on how to spot and handle these potential road blocks to a successful career in the academy. Based on extant research and collective years of academic experience, *The Ethical Professor* seeks to shorten the learning curve around common ethical pitfalls and issues by defining them, sharing research and experiences about them, and offering a discussion framework for continued learning and reflection. This innovative new volume will be key reading for doctoral students and junior faculty members in social science departments in colleges and universities, as well as managers undertaking an MBA. Due to the increasing complexity of managing academic institutions, more seasoned professors, administrators, and college deans and presidents, will also benefit from the research presented here.

*Global Issues in Pharmaceutical Marketing* presents a balanced, research-based perspective combined with a practical outlook on the current issues faced by the ethical, biotech, and generic segments of the pharmaceutical industry. It integrates an analytical approach with a global view to examine such issues as market access, digital marketing, emerging markets, branding, and more. The book covers not only the North American and Western European markets, but focuses on non-Western markets, such as Latin America and Asia. Each chapter is written as an individual essay about a given issue, and where relevant, original cases are provided to illustrate how these issues are currently managed by the global industry. This book offers a thoughtful and thorough description of the industry's current situation and integrates the latest scholarly and industry research from different disciplines in one place for convenient reference. It may be used in the following ways: To stimulate class discussions and inspire new streams of research for academics and graduate students; To introduce the industry to those interested in a career, to orient new industry hires, or to provide experienced



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practitioners with current research that will enhance their knowledge; To provide an understanding of the industry for those in the healthcare sector, such as physicians, pharmacists, as well as medical and pharmacy students; and To present recent and relevant research for those in government, public or private payers, and public policy environments to facilitate their decision making. This book will prove to be a useful resource and an important source of information for academics and their students, professionals, and policymakers around the world.

Advances in medical technology increase both the efficacy and efficiency of medical practice, and mobile technologies enable modern doctors and nurses to treat patients remotely from anywhere in the world. This technology raises issues of quality of care and medical ethics, which must be addressed. *E-Health and Telemedicine: Concepts, Methodologies, Tools, and Applications* explores recent advances in mobile medicine and how this technology impacts modern medical care. Three volumes of comprehensive coverage on crucial topics in wireless technologies for enhanced medical care make this multi-volume publication a critical reference source for doctors, nurse practitioners, hospital administrators, and researchers and academics in all areas of the medical field. This seminal publication features comprehensive chapters on all aspects of e-health and telemedicine, including implementation strategies; use cases in cardiology, infectious diseases, and cytology, among others; care of individuals with autism spectrum disorders; and medical image analysis.

As technology evolves and electronic data becomes more complex, digital medical record management and analysis becomes a challenge. In order to discover patterns and make relevant predictions based on large data sets, researchers and medical professionals must find new methods to analyze and extract relevant health information. *Big Data Analytics in Bioinformatics and*

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Healthcare merges the fields of biology, technology, and medicine in order to present a comprehensive study on the emerging information processing applications necessary in the field of electronic medical record management. Complete with interdisciplinary research resources, this publication is an essential reference source for researchers, practitioners, and students interested in the fields of biological computation, database management, and health information technology, with a special focus on the methodologies and tools to manage massive and complex electronic information.

Sustainability in agriculture and associated primary industries, which are both energy-intensive, is crucial for the development of any country. Increasing scarcity and resulting high fossil fuel prices combined with the need to significantly reduce greenhouse gas emissions, make the improvement of energy efficient farming and increased use of rene

The six-volume set LNCS 8579-8584 constitutes the refereed proceedings of the 14th International Conference on Computational Science and Its Applications, ICCSA 2014, held in Guimarães, Portugal, in June/July 2014. The 347 revised papers presented in 30 workshops and a special track were carefully reviewed and selected from 1167. The 289 papers presented in the workshops cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and security.

The past few years have witnessed an upsurge in incidences relating to food safety issues, which are all attributed to different factors. Today, with the increase in knowledge and available databases on food safety issues, the world is witnessing tremendous efforts towards the development of new, economical and environmentally-friendly techniques for maintaining the quality of perishable foods

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and agro-based commodities. The intensification of food safety concerns reflects a major global awareness of foods in world trade. Several recommendations have been put forward by various world governing bodies and committees to solve food safety issues, which are all mainly targeted at benefiting consumers. In addition, economic losses and instability to a particular nation or region caused by food safety issues can be huge. Various non-dependent risk factors can be involved with regard to food safety in a wide range of food commodities such as fresh fruits, vegetables, seafood, poultry, meat and meat products. Additionally, food safety issues involve a wide array of issues including processed foods, packaging, post-harvest preservation, microbial growth and spoilage, food poisoning, handling at the manufacturing units, food additives, presence of banned chemicals and drugs, and more. Rapid change in climatic conditions is also playing a pivotal role with regard to food safety issues, and increasing the anxiety about our ability to feed the world safely. Practical Food Safety: Contemporary Issues and Future Directions takes a multi-faceted approach to the subject of food safety, covering various aspects ranging from microbiological to chemical issues, and from basic knowledge to future perspectives. This is a book exclusively designed to simultaneously encourage consideration of the present knowledge and future possibilities of food safety. This book also covers the classic topics required for all books on food safety, and encompasses the most recent updates in the field. Leading researchers have addressed new issues and have put forth novel research findings that will affect the world in the future, and suggesting how these should be faced. This book will be useful for researchers engaged in the field of food science and food safety, food industry personnel engaged in safety aspects, and governmental and non-governmental agencies involved in establishing guidelines towards establishing safety measures for food and agricultural commodities.

With the increasing focus on science education, growing attention is

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being paid to how science is taught. Educators in science and science-related disciplines are recognizing that distance delivery opens up new opportunities for delivering information, providing interactivity, collaborative opportunities and feedback, as well as for increasing access for students. This book presents the guidance of expert science educators from the US and from around the globe. They describe key concepts, delivery modes and emerging technologies, and offer models of practice. The book places particular emphasis on experimentation, lab and field work as they are fundamentally part of the education in most scientific disciplines. Chapters include: \* Discipline methodology and teaching strategies in the specific areas of physics, biology, chemistry and earth sciences. \* An overview of the important and appropriate learning technologies (ICTs) for each major science. \* Best practices for establishing and maintaining a successful course online. \* Insights and tips for handling practical components like laboratories and field work. \* Coverage of breaking topics, including MOOCs, learning analytics, open educational resources and m-learning. \* Strategies for engaging your students online. A companion website presents videos of the contributors sharing additional guidance, virtual labs simulations and various additional resources.

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