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Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art

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program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

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 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.

Advanced Processing, Properties, and Applications of Starch and Other Bio-based Polymers presents the



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latest cutting-edge research into the processing and applications of bio-based polymers, for novel industrial applications across areas including biomedical and electronics. The book is divided into three sections, covering processing and manufacture, properties, and applications. Throughout the book, key aspects of sustainability are considered, including improved utilization of available natural resources, sustainable design possibilities, cleaner production processes, and waste management. Focuses on starch-based polymers, examining the latest advances in processing and applications with this valuable category of biopolymer Highlights industrial sustainability considerations at all steps of the process, including when sourcing materials, designing and producing products, and dealing with waste Supports the processing and development of starch and other bio-based polymers with enhanced functionality for advanced applications

EASTER CONFERENCE - The 14th International Academic Conference in Prague 2019, Czech Republic (The 14th IAC in Prague 2019)

Application of optogenetic and pharmacogenetic tools to study the neural circuits underlying emotional valence, feeding, arousal and motivated behaviors has provided crucial insights into brain function. Expression of light sensitive proteins into specific neurons and subsequent stimulation by light (optogenetics) to control neuronal activity or expression of designer receptors exclusively activated by designer drugs (DREADD) in specific neuronal populations with subsequent activation or suppression of neuronal activity by an otherwise inert ligand (pharmacogenetics) provides control over defined

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elements of neural circuits. These novel tools have provided a more in depth understanding into several questions about brain function. These include: • Regulation of sleep-wake transition by the interaction of hypocretin neurons of lateral hypothalamus and noradrenergic neurons of the locus coeruleus • Regulation of feeding by AGRP and POMC neurons in arcuate nucleus of the hypothalamus • Place preference and positive reinforcement by activation of DA neuron of VTA • Place aversion by activation of VTA GABA and lateral habenula neurons • Opposing influences on reinforcement by activation of D1 and D2 expressing medium spiny neurons of dorsal striatum and nucleus accumbens

The list still grows... From cell type specific manipulations to signaling properties in the cell (Dietz et al 2012) with unprecedented temporal resolution, these tools revolutionize the exploration of pathways/connectivity. Recent years also witnessed the extension of applying these tools from studying emotional valence and motivated behavior to reactivation of memory. c-fos based genetic approaches allowed us to integrate light sensitive opsins or DREADD receptor into specific neurons that are activated by certain learning events (for example fear) (Garner et al 2012; Liu et al 2012). In this Research Topic, we welcome researchers to contribute original research articles, review articles, methods and commentary on topics utilizing optogenetic and pharmacogenetic tools to study the neural circuits underlying emotional valence, motivation, reinforcement and memory. We believe the Research Topic will shine light on various questions we have about brain function by using novel optogenetic and pharmacogenetic tools and will hopefully inspire ongoing research to overcome the hurdles of using these tools to advance clinical applications.

If biology in the 20th century was characterized by an explosion of new technologies and experimental methods, that of the 21st has seen an equally exuberant proliferation of mathematical and computational

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methods that attempt to systematize and explain the abundance of available data. As we live through the consolidation of a new paradigm where experimental data goes hand in hand with computational analysis, we contemplate the challenge of fusing these two aspects of the new biology into a consistent theoretical framework. Whether systems biology will survive as a field or be washed away by the tides of future fads will ultimately depend on its success to achieve this type of synthesis. The famous quote attributed to Kurt Lewin comes to mind: "there is nothing more practical than a good theory". This book presents a wide assortment of articles on systems biology in an attempt to capture the variety of current methods in systems biology and show how they can help to find answers to the challenges of modern biology.

Introduces readers to the enlightening world of the modern light microscope There have been rapid advances in science and technology over the last decade, and the light microscope, together with the information that it gives about the image, has changed too. Yet the fundamental principles of setting up and using a microscope rests upon unchanging physical principles that have been understood for years. This informative, practical, full-colour guide fills the gap between specialised edited texts on detailed research topics, and introductory books, which concentrate on an optical approach to the light microscope. It also provides comprehensive coverage of confocal microscopy, which has revolutionised light microscopy over the last few decades. Written to help the reader understand, set up, and use the often very expensive and complex modern research light microscope properly, *Understanding Light Microscopy* keeps mathematical formulae to a minimum—containing and explaining them within boxes in the text. Chapters provide in-depth coverage of basic microscope optics and design; ergonomics; illumination; diffraction and image formation; reflected-light, polarised-light, and fluorescence

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microscopy; deconvolution; TIRF microscopy; FRAP & FRET; super-resolution techniques; biological and materials specimen preparation; and more. Gives a didactic introduction to the light microscope Encourages readers to use advanced fluorescence and confocal microscopes within a research institute or core microscopy facility Features full-colour illustrations and workable practical protocols Understanding Light Microscopy is intended for any scientist who wishes to understand and use a modern light microscope. It is also ideal as supporting material for a formal taught course, or for individual students to learn the key aspects of light microscopy through their own study.

This book addresses the problem of waste management by using multi-criteria decision-making (MCDM) methods. The authors discuss how to apply MCDM, a complex decision-making tool that involves both quantitative and qualitative factors, to develop strategies for effective waste management using various optimization models to rank alternatives, while also incorporating the concerns and needs of multiple stakeholders to find the most optimal decisions for various types of wastes. Typically, there does not exist a single optimal solution to waste problems; with help of MCDM, far better solutions can often be found and utilized to facilitate sustainable waste management techniques in various industries. This book provides unique, effective, and quick decision-making strategies for waste management. With the ever-increasing population and continuing human development, the problem of managing waste becomes increasingly essential, and this volume helps lead the way to finding sustainable solutions.

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