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FC1 - HERRERA LYNN

Chronicles the author's personal and professional journey within the American educational system.

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Provides techniques for studying for the AP biology exam, including two full-length practice tests.

Biology Inquiries offers educators a handbook for teaching middle and high school students engaging lessons in the life sciences. Inspired by the National Science Education Standards, the book bridges the gap between theory and practice. With exciting twists on standard biology instruction the author emphasizes active inquiry instead of rote memorization. Biology Inquiries contains many innovative ideas developed by biology teacher Martin Shields. This dynamic resource helps teachers introduce standards-based inquiry and constructivist lessons into their classrooms. Some of the book's

classroom-tested lessons are inquiry modifications of traditional "cookbook" labs that biology teachers will recognize. Biology Inquiries provides a pool of active learning lessons to choose from with valuable tips on how to implement them.

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

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Studies of membrane transporters have had great impact on our understanding human diseases and the design of effective drugs. About 30% of current clinically marketed drugs are targeting membrane transporters or channels. *Membrane Transporters: Methods and Protocols* provides various practical methodologies for the ongoing research on membrane transporters. To provide readers the most up-to-date information, several emerging fields and methodologies are embraced in this book, including pharmacogenomics, bioinformatics, and microarray technology. Pharmacogenomics studies of membrane transporters are useful in drug discovery and in predicting drug responses in the clinic. In this volume, the current status of pharmacogenomics studies of transporters is reviewed and research methodologies in this field are described. Transporter classification is important in studying the structure and function of membrane transporters and has thus triggered intensive interest in recent years. *Membrane Transporters: Methods and Protocols* provides a systematic classification of all transmembrane transport proteins found in living organisms on Earth. This classification system will be helpful for further studies on various aspects of membrane transporters, especially for such large-scale gene expression studies as those employing microarray technologies. Bioinformatics is frequently used in transporter studies and has become indispensable for all kinds of research methods. Commonly used bioinformatics methods, such as databases and tools for sequence analysis and -tiff studies, are explained in order to facilitate membrane transporters research. Because of heterogeneous sources and tremendous amounts of data, data integration has become one of the most important issues in transporter studies.

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