



Biological Investigations Lab Manual

By Warren Dolphin, David Vleck

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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. By emphasizing investigative, quantitative, and comparative approaches to the topics, the authors continually emphasize how the biological sciences are integrative, yet unique. This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology encouraged them to think for themselves.

An instructor's manual, 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

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Editorial Review

About the Author

Warren Dolphin is Emeritus Professor of Genetics, Development and Cell Biology at Iowa State University. He earned his B.S. at West Chester State University and Ph.D. at the Ohio State University in Zoology (Cell Biology). He served as Coordinator of the Biology Program for 30 years and the Program in Biological Illustration for 10 years. For his service to undergraduate education at the Iowa State, he was awarded the honorary title University Professor. He has taught introductory biology for 37 years, including supervising the offering of labs to thousands of students each year. This lab manual, first published in 1980, is a result of his desire to have students do biological science, distilling the principles that provide the foundation for further studies and productive careers. For this edition, he asked former colleagues at Iowa State to help him achieve that goal.

David Vleck is Adjunct Associate Professor and Research Scientist, Department of Ecology, Evolution and Organismal Biology at Iowa State University. He received a Bachelor's degree from Pomona College and a Ph. D. in biology from the University of California at Los Angeles. He has taught lecture and laboratory courses in introductory biology, animal biology and physiology at the University of Arizona from 1989-1994 and at Iowa State University since 1994. He has published research articles on energetics, water balance, developmental biology, and aging of vertebrate animals and currently works on telomeres, oxidative damage, and mechanisms of aging.

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