



# Lab Manual for Majors General Biology

*By James W. Perry, David Morton, Joy B. Perry*

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Featuring a clear format and a wealth of illustrations, this lab manual helps biology majors learn science by doing it. This manual includes numerous inquiry-based experiments, relevant activities, and supporting questions that assess recall, understanding, and application. The exercises support any biology text used in a majors course.

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## **Bibliography**

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## **Editorial Review**

### **Review**

1. Microscopy. 2. Macromolecules and You: Food and Diet Analysis. 3. Structure and Function of Living Cells. 4. Diffusion, Osmosis, and the Functional Significance of Biological Membranes. 5. Enzymes: Catalysts of Life. 6. Photosynthesis: Capture of Light Energy. 7. Respiration: Energy Conversion. 8. Mitosis, Meiosis, and Cytokinesis. 9. Heredity, Nucleic Acids, & Biotechnology. 10. Evolutionary Agents. 11. Evidences of Evolution. 12. Taxonomy: Classifying and Naming Organisms. 13. Bacteria and Protists. 14. Fungi. 15. Bryophytes and Seedless Vascular Plants. 16. Seed Plants I: Gymnosperms. 17. Seed Plants II: Angiosperms. 18. Sponges, Cnidarians, Flatworms, and Rotifers. 19. Segmented Worms, Mollusks, Roundworms, and Joint-Legged Animals. 20. Echinoderms, Invertebrate Chordates, and Vertebrates. 21. Plant and Animal Organization. 22. Dissection of the Fetal Pig. 23. Human Sensations, Reflexes, Reactions, and the Structure and Function of Sensory Organs. 24. Human Skeletal and Muscular Systems. 25. Human Blood, Circulation, and Respiration. 26. Animal Development. 27. The Natural Arsenal: An Experimental Study of the Relationships Between Plants and Animals. 28. Ecology: Living Organisms in Their Environment. 29. Human Impact on the Environment: Stream and Pond Ecology. 30. Animal Behavior. Appendix 1: Measurement Conversions. Appendix 2: The Scientific Method. Appendix 3: Scientific Writing and Critiquing. Appendix 4: Statistics and Graphing with Excel. Appendix 5: Using Inquiry-Based Module Reports. Appendix 6: Genetics Problems. Appendix 7: Terms of Orientation in and Around the Animal Body.

### **About the Author**

Jim Perry is Campus Executive Officer and Dean Emeritus at the University of Wisconsin, Fox Valley. Prior to his retirement in 2011, he also was Professor of Biological Sciences. Dr. Perry began his university education at Fox Valley's sister campus, U.W. Marathon County in Wausau, WI. He received his B.S. (Zoology and Secondary Education), M.S. (Botany and Zoology), and Ph.D. (Botany and Plant Pathology) from the University of Wisconsin, Madison. His Ph.D. thesis was an ultrastructural study of the infection process and disease progression of a major fungal disease of potatoes. From 1983 to 1993, he was a faculty member at Frostburg State University. Dr. Perry and his spouse Joy reside in rural Winnebago County, WI, and spend as much time as possible at their cabin in far northern Wisconsin, seven miles south of Lake Superior. He is an avid outdoors person, vintage car owner, and owns, wrenches, and drives a 1962 Volvo vintage road race car on some of the nation's finest road race circuits.

David Morton emigrated to the United States from London, England, in his sophomore year of high school. Dr. Morton earned a B.S. degree cum laude from the State University of New York at New Paltz and his Ph.D. from Cornell University. His thesis involved iron metabolism in vampire bats, and he continued his general interest in the physiology and ecology of bats throughout his career. Before retiring in 2009, he held positions at Wright State University and Frostburg State University. He chaired FSU's biology department for 9 years. He continues to reside in the city of Frostburg, Maryland, with Beverly, his wife of 46 years. They have one son and four grandchildren.

Joy Perry is Senior Lecturer of Biological Sciences at the University of Wisconsin, Fox Valley, Menasha, WI. Ms. Perry earned a B.S. in General Biology from Purdue University and an M.S. in Plant Pathology, with emphasis on Integrated Pest Management, from the University of Wisconsin, Madison. She serves on the board of the international professional society, the Association for Biology Laboratory Education (ABLE). An avid gardener, she is active in local and statewide groups promoting community and school

gardens, as well as expanded opportunities for producers and consumers of local food.

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