

# About the Authors

## Ursula Goodenough

Ursula Goodenough is a professor of biology at Washington University. She received her Ph.D. in biology from Harvard University, and previously served there as an NIH postdoctoral fellow and both an assistant and an associate professor. At Washington University, she runs the Goodenough Lab, which utilizes the unicellular green soil alga, *Chlamydomonas reinhardtii*, to study both fundamental and potentially industry-applicable biological processes. Her long-term focus has centered on elucidating molecular-genetic features of its sexual cycle, leading to the cloning and characterization of its mating-type locus and of genes involved in sex determination, mating interactions, the haploid-diploid transition in gene expression that follows gametic fusion, and the uniparental inheritance of chloroplast genomes. She teaches cell biology and molecular evolution and has written three editions of a widely used college textbook on genetics. She has acted as president of the American Society for Cell Biology, among other positions of leadership in the organization, and she serves on national science committees, review panels, and editorial boards. She is the author of *The Sacred Depth of Nature* (Oxford University Press, 1998).

## Paul R. Gross

Paul R. Gross was educated in Philadelphia public schools and at the University of Pennsylvania. He held a senior postdoctoral fellowship of the U.S. National Science Foundation at the University of Edinburgh, and was awarded an honorary D.Sc. from the Medical College of Ohio. Now professor emeritus of life sciences at the University of Virginia, Paul Gross previously served as the university's

vice president and provost, founding director of the Markey Center for Cell Signaling, and director of the university's Shannon Center for Advanced Studies. He is a fellow of the American Academy of Arts and Sciences, and has taught and directed research at New York University, Brown University, the Massachusetts Institute of Technology, and the University of Rochester (where he was chairman of biology and dean of graduate studies). He was director and president of the Marine Biological Laboratory, Woods Hole, Massachusetts, from 1978–88, and has served as a trustee of Associated Universities, Inc., and of the American Academy of Liberal Education. The research of Dr. Gross and his students and fellows has centered on the molecular biology of development and cellular differentiation. His published works include numerous articles, essays, and books on topics ranging from fertilization and early animal development to contemporary issues in science, education, and culture. His most recent book (with philosopher Barbara Forrest) is *Creationism's Trojan Horse* (Oxford University Press, 1998).

## Lawrence S. Lerner

Lawrence S. Lerner is professor emeritus in the College of Natural Sciences and Mathematics at California State University, Long Beach (CSULB). He was educated at Stuyvesant High School in New York, and the University of Chicago. A condensed-matter physicist by training, he is the author or co-author of more than one hundred papers in that field and in the history of science, science and religion, and science education, as well as two university-level textbooks, an annotated translation of Giordano Bruno's *The Ash Wednesday Supper*, and a variety of book chapters and reviews. As former director of the CSULB General Honors Program, he reformed the curriculum, building it into one of strong interdisciplinary challenge. He was also the founding

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president of the university's Phi Beta Kappa chapter. He has authored or contributed to five earlier Fordham publications relating to state science standards, and serves as associate editor of two scholarly journals. He lives in Woodside, California with his wife and two Newfoundland dogs. His interests include Renaissance music, opera, and gastronomy.

### John M. Lynch

John M. Lynch (Ph.D., University College Dublin) has been at Arizona State University (ASU) since 1994 and specializes in scientific, theological, and cultural responses to evolutionary ideas. He is a principal lecturer and honors faculty fellow at Barrett, the Honors College at ASU. He is also affiliated with ASU's Center for Biology and Society, the History and Philosophy of Science Program, and the graduate program in Human and Social Dimensions of Science and Technology. Since 1998, he has fought to maintain strong evolutionary principles in K-12 science standards. As such, he has presented on anti-evolutionism at many public, legal, educational, and scientific gatherings. He served as chair of the Educational Committee for the International Society for the History, Philosophy, and Social Studies of Biology between 2005 and 2011. Since 2007, he has also been a member of the Committee for Education of the History of Science Society. Dr. Lynch has received a number of awards for his teaching and service including the CASE/Carnegie Foundation for the Advancement of Teaching Professor of the Year for Arizona (2007).

### Adam Marcus

Adam Marcus is a science journalist based in New Jersey. He is the editor of *Anesthesiology News* and a co-founder of the blog *Retraction Watch* at [retractionwatch.com](http://retractionwatch.com). His freelance work has appeared in *Science*, *Audubon*, *The Economist*, and many other publications.

### Martha Schwartz

Martha Schwartz has taught science and elementary mathematics from seventh grade through early graduate school. She is also experienced in teacher training and professional development. She holds a B.S. in mathematics from Arizona State University, a teaching credential from UCLA, a master's degree in geology from California State University, Long Beach, and a Ph.D. in geophysics from the University of Southern California. She is a member of the Assessment Review Panel in science for the state of California and has worked on school improvement, standards, and testing for a variety of organizations.

### Richard Schwartz

Richard Schwartz holds a B.S. in chemistry from Arizona State University, a teaching credential from UCLA, and a master's degree in environmental science from California State University, Dominguez Hills. He taught secondary science for thirty-four years, the last thirty-two of them at Torrance High School in Torrance, California. He is a former member of the California Curriculum Commission and a 1995 recipient of the American Chemical Society's regional award in chemistry teaching. He retired from teaching in 2003, and recently retired from his second career at the University of Southern California, where he helped manage the geochemistry laboratory.



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