



Genetics: From Genes to Genomes, 5th edition

By Leland H. Hartwell, Michael L. Goldberg, Janice A. Fischer, Leroy Hood, Charles F. Aquadro

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Editorial Review

About the Author

Dr. Leland Hartwell is President and Director of Seattle's Fred Hutchinson Cancer Research Center and Professor of Genome Sciences at the University of Washington. Dr. Hartwell's primary research contributions were in identifying genes that control cell division in yeast, including those necessary for the division process as well as those necessary for the fidelity of genome reproduction. Subsequently, many of these same genes have been found to control cell division in humans and often to be the site of alteration in cancer cells.

Dr. Hartwell is a member of the National Academy of Sciences and has received the Albert Lasker Basic Medical Research Award, the Gairdner Foundation International Award, the Genetics Society Medal, and the 2001 Nobel Prize in Physiology or Medicine.

Dr. Janice Fischer is a Professor at The University of Texas at Austin, where she is an award-winning teacher of genetics and Director of the Biology Instructional Office. She received her Ph.D. in biochemistry and molecular biology from Harvard University, and did postdoctoral research at The University of California at Berkeley and The Whitehead Institute at MIT. In her current research, Dr. Fischer uses *Drosophila* to examine the roles of ubiquitin and endocytosis in cell signaling during development.

Dr. Charles Aquadro (Chip) is Professor of Population Genetics, the Charles A. Alexander Professor of Biological Sciences, and Director of the Center for Comparative and Population Genomics at Cornell University. He obtained his Ph.D. in genetics from the University of Georgia, was a postdoc at the National Institute for Environmental Health Sciences/NIH, and joined the faculty at Cornell University in 1985 where he is now a professor. He has served as President of the Society of Molecular Biology and Evolution, is an elected Fellow of the AAAS, is a member of the Scientific Advisory Board for National Geographic Society's Genographic Project, was a member of the Scientific Advisory Board for the WGBH/NOVA TV series "Evolution," and has been a visiting scholar at Cambridge University (England, 1993) and Harvard University (2007). His research and teaching focuses on molecular population genetics, molecular evolution, and comparative genomics. While *Drosophila* is his primary research system, recent work has also involved yeast, humans, and plants. At Cornell, he teaches a university-wide course to nonmajors on personal genomics and medicine, and a major's course in population genetics.

Dr. Michael Goldberg is a professor at Cornell University, where he teaches introductory genetics and human genetics. He was an undergraduate at Yale University and received his Ph.D. in biochemistry from Stanford University. Dr. Goldberg performed postdoctoral research at the Biozentrum of the University of Basel (Switzerland) and at Harvard University, and he received an NIH Fogarty Senior International Fellowship for study at Imperial College (England) and fellowships from the Fondazione Cenci Bolognetti for sabbatical work at the University of Rome (Italy). His current research uses the tools of *Drosophila* genetics and the biochemical analysis of frog egg cell extracts to investigate the mechanisms that ensure proper cell cycle progression and chromosome segregation during mitosis and meiosis.

Dr. Hood received an MD from the Johns Hopkins Medical School and a PhD in Biochemistry from the California Institute of Technology. His research interests include immunology, development and the development of biological instrumentation (e.g. the protein sequencer and the automated fluorescent DNA sequencer). His research played a key role in unraveling the mysteries of antibody diversity. Dr. Hood has taught molecular evolution, immunology, molecular biology and biochemistry. He is currently the Chairman (and founder) of the cross-disciplinary Department of Molecular Biotechnology at the University of Washington. Dr. Hood has received a variety of awards including the Albert Lasker Award for Medical Research (1987), Dickson Prize (1987), Cefas Award for Biochemistry (1989), and the Distinguished Service Award from the national Association of Teachers (1998). He is deeply involved in K-12 science education. His hobbies include running, mountain climbing, and reading.

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