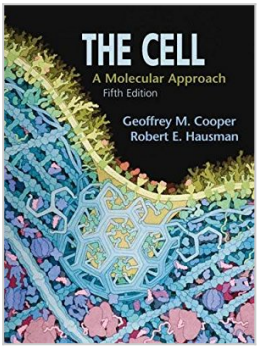

The Cell: A Molecular Approach, Fifth Edition

By Geoffrey M. Cooper, Robert E. Hausman

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The Cell presents current comprehensive science in a readable and cohesive text that students can master in the course of one semester. This new edition retains the overall organization, themes, and special features of the Fourth Edition, including Key Experiment and Molecular Medicine essays, chapter sidebars that highlight areas of interest and clinical applications, and end-of-chapter questions with answers at the back of the book. The Fifth Edition has been updated throughout to reflect major advances since publication of the Fourth Edition in 2006, including: * Advances in understanding gene regulation by microRNAs * Histones and epigenetic inheritance * Identification of human disease susceptibility genes by genome-wide association scans * Protein import into mitochondria * Induced pluripotent stem cells * Role of autophagy in programmed cell death * Genomic analysis of mutations in human cancers * New Key Experiments: RNA Interference (Chapter 4) and G Protein-Coupled Receptors and Odor Detection (Chapter 15)

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Editorial Review

Review
The authors have done a great job of explaining complex concepts in a very readable style. ... The illustrations are quite good as is the accompanying student website which has animations and other study tools available. The Key Experiments presented in each chapter give the reader a sense of history for the accomplishments presented, a plus for any student. I also appreciated that the authors added the clinical relevance of some discoveries in the Molecular Medicine sections. --Jill Loukides, Focus on Microbiology Education

About the Author
Geoffrey M. Cooper is Professor and Chair of the Department of Biology at Boston University. Receiving a Ph.D. in Biochemistry from the University of Miami in 1973, he pursued postdoctoral work with Howard Temin at the University of Wisconsin, where he developed gene transfer assays to characterize the proviral DNAs of Rous sarcoma virus and related retroviruses. He then joined the faculty of Dana-Farber Cancer Institute and Harvard Medical School in 1975, extending these studies to the identification of oncogenes in human tumors. Since moving to Boston University in 1998, Dr. Cooper has used The Cell in teaching undergraduate cell biology, as well as continuing his research and participating in a major expansion of the life sciences there. Dr. Cooper s research is focused on understanding the roles of oncogene proteins in the signaling pathways that regulate cell proliferation and programmed cell death. He has authored two textbooks on cancer and published over 100 research papers in the field of cell signaling and cancer research. Robert E. Hausman is Professor and Graduate Director of the Department of Biology at Boston University. Receiving a Ph.D. in Biological Science from Northwestern University in 1971, he pursued postdoctoral work with Aron Moscona at the University of Chicago, where he investigated cell cell interactions during early embryonic development and characterized one of the original cell adhesion molecules. He joined the faculty of Boston University in 1978, extending his investigations of cell surface interactions to muscle development and regulation of gene expression in the developing nervous system by cell-to-cell contact. Dr. Hausman has taught undergraduate cell biology and several graduate development courses at Boston University, and Professors Cooper and Hausman currently teach cell biology together. His research is focused on understanding how interactions between cells and between cells and the extracellular matrix affect differentiation and morphogenesis.

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