



## Fundamentals of Genetics (2nd Edition)

By Peter J. Russell

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Fundamentals of Genetics, Second Edition, provides a concise, easy-to-read introduction to genetics. Based on the author's best-selling Genetics, Fifth Edition, the text is carefully crafted to present full coverage of the subject without overwhelming students with details and complex explanations. A friendly writing style complements Russell's effective, step-by-step problem-solving approach, which guides students to an understanding of principles and concepts. Fundamentals of Genetics, Second Edition, is particularly ideal for students who have a limited background in biology or chemistry, or for briefer courses in which there is little time for advanced topics. A greatly expanded supplements package now accompanies the text.

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### Editorial Review

#### From the Back Cover

The latest edition of Fundamentals of Genetics and the Biology Place is an easy-to-read introduction to genetics. The book presents full coverage of the subject without overwhelming readers with details and complex clarification. Sections titled "Analytical Approaches for Solving Genetics Problems" guide readers through typical genetics problems in step-by-step detail. The book provides full coverage of genetics in a brief format. It includes significant genetic advances, especially those resulting from molecular experimental approaches. Sections include material on the structure of eukaryotic chromosomes, the control of the cell cycle, initiation of transcription in eukaryotes, alternative splicing in the production of mRNAs, modern molecular screens for the isolation of mutants and investigation of genetic relationships by mitochondrial DNA analysis. The book also includes expanded coverage of mapping genes in human chromosomes. For readers with a limited background in biology or chemistry.

#### About the Author

Peter J. Russell received his B.Sc. in Biology from University of Sussex in 1968 and his Ph.D. in Genetics from Cornell University in 1972. He then joined the Biology faculty of Reed College in 1972 where he is currently Professor of Biology. Russell teaches an upper-division genetics and molecular biology lecture/laboratory course, the genetics section of the introductory biology course, an advanced seminar course in yeast virology, and advises senior thesis research students. He is also the author of a number of successful genetics textbooks. He is currently studying the molecular genetics of the replication of double-stranded (ds)RNA viruses found in budding yeast, *Saccharomyces cerevisiae*. The research goals are to define *in vivo* the cis-acting sequences that are required for viral RNA packaging into capsids and for genome replication, and to identify and characterize any yeast gene products required for virus propagation. His earlier research involved *Neurospora* rRNA synthesis and the organization of and regulation of the number of ribosomal RNA genes, and nitrogen metabolism in the pathogenic dimorphic yeast *Candida albicans*.

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##### Michael Riddle:

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**Alan Torrez:**

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**Juan Turgeon:**

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**William Powers:**

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