



GENETICS & EVOLUTION



Genetics and Evolution is a six-volume set that explores the principal fields of modern molecular biology from their origins to the most recent discoveries and technological breakthroughs. A century and a half after evolutionary and genetic science began, biology and medicine are coming together to form a powerful new view of the living world that is having a dramatic effect on human health and society. As well as introducing the basic terms and concepts, the set examines the most significant social and ethical issues surrounding current biomedical research and serves as a valuable guide to the world that science is creating.

The Future of Genetics: Beyond the Human Genome Project is a fascinating overview of current innovations in genetic research. The book examines how sophisticated tools of genetic analysis and manipulation are being developed in laboratories all over the world and considers the impact they will have on issues that scientists consider, including the causes of aging and death, the nature of the brain, and quality of life. Drawing from many research streams—such as advances in molecular and cell biology, imaging, and informatics—genetics is shown to encompass a view of nature more varied than previously imagined by the scientific community.

The volume includes information on

- biodiversity
- computers and biology
- consciousness and the brain
- the digital embryo
- evolution, genetics, and mathematics
- gene manipulation
- literature and science
- the “new” pharmacology

The book contains more than 30 color photographs and four-color line illustrations, sidebars, a chronology, a glossary, a detailed list of print and Internet resources, and an index. **Genetics and Evolution** is essential for high school students, teachers, and general readers who wish to learn about the “revolution” in evolutionary research and discovery.

GENETICS AND EVOLUTION SET

Developmental Biology

Genetic Engineering

Evolution

Human Genetics

The Future of Genetics

The Molecules of Life

Russ Hodge is a writer and science education expert at the Max Delbrück Center for Molecular Medicine in Berlin, Germany, one of the world's leading biology institutes. The author of many popular science books, he has also published hundreds of articles and interviewed such world-renowned scientists as Nobel Prize winners Max Perutz, Roald Hoffmann, Harold Varmus, and Christiane Nüsslein-Volhard.

Cover images, main: Pollen in a gelatin capsule is used to hybridize an “August Flame orange” daylily (© PAT Greenhouse/Boston Globe/Landov); others (© Shutterstock)

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