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The eighth edition of 'An

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through cancer-prone families via genetic linkage and positional cloning. Several of the genes discovered have subsequently been proved to play critical roles in normal growth and development. There are also implications for the

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Appropriate roles for public agencies, private health practitioners, and laboratories.
Value-neutral education and

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counseling for persons considering testing. Use of test results in insurance, employment, and other settings.

In the small "Fly Room" at Columbia University, T.H. Morgan and his students, A.H. Sturtevant,

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Genetic Analysis

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Around 200,000 years ago,
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respects--lived in Africa.
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is descended from him. How did this real-life Adam wind up father of us all? What happened to the descendants of other men who lived at the same time? And why, if modern

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topics of classical

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merits in breeding
populations. With advances
in DNA sequencing
technologies, genomic
data, especially single
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(SNP) markers, have become

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available for animal and plant breeding programs in recent years. Analysis of DNA markers for prediction of genetic merit is a relatively new and active research area. The

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also described. The book begins with an introduction to biotechnology and its main branches, explaining both the basic science and the applications of biotechnology-derived

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This book focuses on the application of behaviour genetic approaches to twin studies, and reviews diagnostic to Attention Deficit Hyperactivity

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Disorder (ADHD), the relationships between reading, spelling and ADHD, and family and genetic influences on speech and speech and language. Advances in genome-scale DNA sequencing technologies have revolutionized genetic research on ancient organisms, extinct species,

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pioneering book presents a snapshot view of the history, current status, and future prospects of paleogenomics, taking a broad viewpoint that covers a range of topics and organisms to provide an up-to-date status of the applications, challenges, and promise of the field.

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of Mitchell and her colleagues. The descriptions of applications and modeling projects stretch beyond the strict boundaries of computer science to include dynamical systems theory, game theory, molecular biology, ecology, evolutionary biology, and population genetics, underscoring

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the exciting "general purpose" nature of genetic algorithms as search methods that can be employed across disciplines. An Introduction to Genetic Algorithms is accessible to students and researchers in any scientific discipline. It includes many thought and computer exercises that

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Mendelian Randomization and instrumental variables, and ethical issues. The software and data used in the book are freely available and can be found on the book's website.

The term "zooplankton"

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describes the community of floating, often microscopic, animals that inhabit aquatic environments. Being near the base of the food chain, they serve as food for larger animals, such as fish. The ICES (International Council

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long ago, most of our world was an unexplored wilderness. Our sense of its age was vague and vastly off the mark, and much of the knowledge of our own species' history was a set of fantastic myths and fairy

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