

Introduction To Genetic Analysis By Griffiths 9th Edition

The eighth edition of 'An Introduction to Genetic Analysis' has been extensively revised, shaping its coverage to match current research and thinking in genetics.

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Since its inception, Introduction to Genetic Analysis has been known for its prominent authorship—leading scientists in their field who are great educators. This market best-seller exposes students to the landmark experiments in genetics, teaching students how to analyze experimental data and how to draw their own conclusions based on scientific thinking while teaching students how to think like geneticists.

The new 12th edition of Introduction to Genetic Analysis takes this cornerstone textbook to the next level. The hallmark focus on genetic analysis, quantitative problem solving, and experimentation continues in this new edition. The 12th edition also introduces SaplingPlus, the best online resource to teach students the problem solving skills they need to succeed in genetics. SaplingPlus combines Sapling's acclaimed automatically graded online homework with an extensive suite of engaging multimedia learning resources.

With each edition, An Introduction to Genetic Analysis (IGA) evolves discovery by discovery with the world of genetic research, taking students from the foundations of Mendelian genetics to the latest findings and applications by focusing on the landmark experiments that define the field. With its author team of prominent scientists who are also highly accomplished educators, IGA again combines exceptional currency, expansive updating of its acclaimed problem sets, and a variety of new ways to learn genetics. Foremost is this edition's dedicated version of W.H. Freeman's breakthrough online course space, LaunchPad, which offers a number of new and enhanced interactive tools that advance IGA's core mission: to show students how to analyze experimental data and draw their own conclusions based on scientific thinking while teaching students how to think like geneticists.

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geneticists. Visit the preview site at www.whfreeman.com/IGA10epreview

The author team welcomes a new coauthor, Sean B. Carroll, a recognized leader in the field of evolutionary development, to this new edition of Introduction to Genetic Analysis (IGA). The authors' ambitious new plans for this edition focus on showing how genetics is practiced today. In particular, the new edition renews its emphasis on how genetic analysis can be a powerful tool for answering biological questions of all types. Special Preview available.

The CD-ROM contains 39 animations. The website provides an online companion which helps students to review material in the text.

Genetics and the organism. Mendelian analysis. Chromosome theory of inheritance. Extensions to Mendelian analysis. Linkage I: basic eukaryotic chromosome mapping. Linkage II: special eukaryotic chromosome mapping techniques. Gene mutation. Chromosome mutation I: changes in chromosome structure. Chromosome mutation II: changes in chromosome number. DNA structure. The nature of the gene. DNA function. Recombination in bacteria and their viruses. Manipulation of DNA. Mechanisms of genetic change I: gene mutation. Mechanisms of genetic change II: recombination. Mechanisms of genetic change III: transposable genetic elements. Genetic control mechanisms in prokaryotes. The chromosome and genetic control mechanisms in eukaryotes. The extranuclear genome. Developmental genetics. Quantitative genetics. Population genetics.

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