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NEW

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Edward Novitski, University of Oregon

This new introductory text explores the basic concepts of genetics within a human framework. It begins with an examination of human characteristics and genetic problems, then works back to the basic biological phenomena responsible for these traits. This approach not only excites student interest, it provides motivation and justification for the detailed biological principles that follow.

All standard genetic topics, including Mendelism, mitotic and meiotic cell division, organismal development, sex determination, molecular genetics, mutation, mutagenic agents, and evolutionary theory are covered and topics requiring sophisticated knowledge of mathematics or chemistry are minimized. Timely topics such as the hazards of organ transplants, the potential danger of radiation exposure from a variety of sources, the nuclear energy controversy, and the possible biological effects of various drugs receive special emphasis.

Lavishly illustrated and accompanied by a detailed *Instructor's Manual, Human Genetics* is an excellent choice for any course dealing with human heredity and its social implications.

1977 464 pages (approx.)

NEW EDITION

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The *second edition* of *Principles of Genetics* continues to provide a modern, thorough, and definitive synthesis of all aspects of genetic knowledge. It has been extensively rewritten for clarity, yet retains its molecular emphasis and research orientation. Particular attention is paid to current basic genetic findings with special consideration given to the research of Nobel Prize recipients. Since the text focuses on principles rather than history, no distinction is made between 'classical' and 'modern' genetics and the organization is logical rather than chronological.

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1977 736 pages (approx.)

NEW EDITION

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The second edition of this comprehensive collection of readings presents an impartial, well-balanced treatment of the genetic aspects of contemporary social problems and practices. While retaining many important articles from the first edition, the book now contains 21 new entries with sections on these important topics: *Genetics and the Social Structure, Genetics and Agriculture, Genetic Aspects of Environmental Hazards, Genes and Behavior, Heredity and Behavior, Heredity and Aging, Population Problems and Genetics, Human Evolution, Race, and Intelligence, Gene Therapy and the Future.* An extensive *new* section on *Medical Genetics and Counseling* has been included.

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1977 approx. 448 pages.

Genetics

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Monroe W. Strickberger, University of Missouri, St. Louis

Comprehensiveness, readability and *clarity* mark the second edition of this extremely popular text on the science of genetics. Every chapter has been thoroughly updated and expanded, and problems and references have been made more relevant. Chapters dealing with the *molecular aspect of genetics* have been vastly enlarged and a new chapter on *gene regulation* has been included. The author has developed the theory of population genetics in a clear algebraic fashion in which all important quantities are carefully derived. Organized to present students with a *balanced view of genetics*, the text explores the many levels on which the science can be approached, from molecular to organismic to populational.

An *Answer Manual* for students is available.

1976 912 pages

THE SCIENCE OF GENETICS: An Introduction to Heredity,

Third Edition
George W. Burns, Ohio Wesleyan University

Here is a newly revised edition of a popular text designed to introduce students to the exciting and rapidly expanding world of genetics. Completely updated to include new information on molecular genetics and pertinent social aspects, it still requires only general biology as a prerequisite. The text has retained its historical theme, starting with classical genetics and progressing through molecular genetics. It follows a problem approach, examining the work of men and women who have contributed most to the science. The author places special emphasis on human genetic patterns while maintaining a balanced treatment of all areas of heredity. New features include revised and expanded problems, new references, glossary additions, reviews of cell structure and behavior, and a full series of appendices.

1976 564 pages.

NEW Dept. of Natural Sciences,

BIOSOCIAL GENETICS: Human Heredity and Social Issues

Gerald J. Stine, University of North Florida

Biosocial Genetics presents a balanced overview of human genetics in a nonrigorous, case/problem-oriented format that assumes no prior scientific training. Principles are applied directly to interesting case situations, thereby enabling students to learn the social, ethical, and legal implications of genetic research while gaining a meaningful understanding of the essentials of classical and molecular genetics. These outstanding features are included:

- excellent historical reviews of the lives and work of important scientists
- cases that examine the biological, emotional, and financial effects of genetic mutation upon the affected individual
- clear prose statements (not chemical symbolism) to explain genetic concepts
- discussions of historically important topics such as the Scopes trial and Lysenkoism
- extensive treatment of such fascinating topics as intersexuality and homosexuality, ethnic group genetics, susceptibility to disease, genetic medicines, genetic counseling, genetic screening, plus an excellent concluding chapter on our genetic future
- excellent illustrations (over 150), up-to-date bibliographies, and a glossary of scientific terms.

1977 544 pages (approx.)

Also of interest:

LABORATORY EXPERIMENTS IN GENETICS

Gerald J. Stine, University of North Florida

This manual integrates modern and classical concepts of genetics while providing a balanced coverage of a variety of organisms including drosophila, phage virus, corn, and humans. Aside from the classic experiments in inheritance, students explore the biological implications of gene action, population genetics, mutagenic effects, and cytoplasmic inheritance.

1973 256 pages paper

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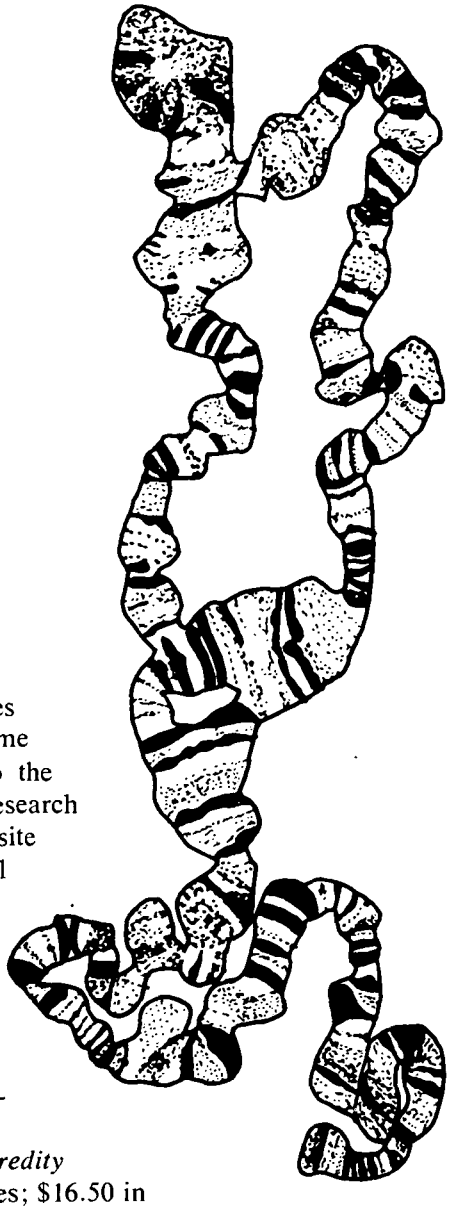

The American Breeders Association—the forerunner of the American Genetic Association—was established in 1903; in 1914 it was reorganized, incorporated and reestablished as the American Genetic Association, and thus became the first organization in the world whose purposes were devoted entirely to "promoting a knowledge of the laws of heredity." The official publication of the Association is the bimonthly *Journal of Heredity,* which features articles from many leading authorities in this important science of life and development. These reports and interpretations are an excellent source of genetic information to scientists, students, and laymen who are interested in current techniques and advances.

Membership in the American Genetic Association, which includes a subscription to the *Journal of Heredity,* imposes no burdensome obligations. Although members are encouraged to lend support to the objectives of the Association by contributing papers describing their research results for publication in the *Journal,* membership is not a prerequisite for publication. All papers received for publication are given careful consideration by the editorial board, and should conform to the general usage of issues published since January, 1966. Specific instructions for contributors are published frequently in the *Journal* and should be consulted by authors who have not previously published in the *Journal.*

Subject to the approval of the Council, all persons actively interested in any aspect of the science of genetics are eligible for membership. Annual dues, which include a subscription to the *Journal of Heredity* and the right to attend all meetings, are $16 within the United States; $16.50 in Canada; and $17 in all other foreign countries. Student membership is $8 annually (foreign postage extra); life membership is $175. Subscription to the *Journal of Heredity* is $25 annually (foreign postage extra).

Further information about membership, publication, or any other aspect of the Association may be obtained by writing to the Secretary at the address below.

AGA

The American Genetic Association

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