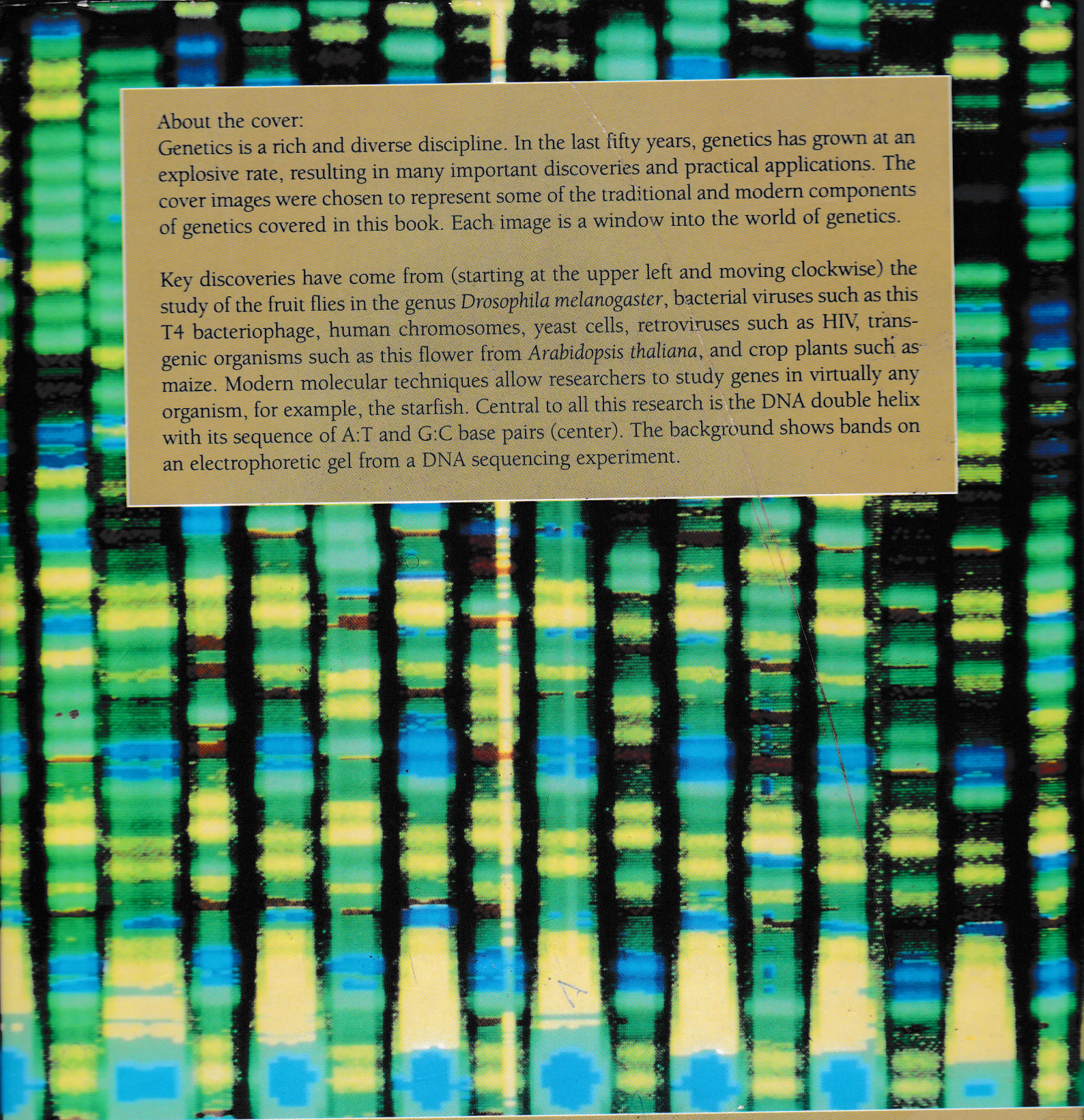
PRINCIPLES OF GENETICS

SNUSTAD • SIMMONS • JENKINS



About the cover:
Genetics is a rich and diverse discipline. In the last fifty years, genetics has grown at an explosive rate, resulting in many important discoveries and practical applications. The cover images were chosen to represent some of the traditional and modern components of genetics covered in this book. Each image is a window into the world of genetics.

Key discoveries have come from (starting at the upper left and moving clockwise) the study of the fruit flies in the genus *Drosophila melanogaster*, bacterial viruses such as this T4 bacteriophage, human chromosomes, yeast cells, retroviruses such as HIV, transgenic organisms such as this flower from *Arabidopsis thaliana*, and crop plants such as maize. Modern molecular techniques allow researchers to study genes in virtually any organism, for example, the starfish. Central to all this research is the DNA double helix with its sequence of A:T and G:C base pairs (center). The background shows bands on an electrophoretic gel from a DNA sequencing experiment.

ISBN 0-471-31196-0
9 780471 311966 90000>

JOHN WILEY & SONS, INC.
NEW YORK • CHICHESTER • WEINHEIM
BRISBANE • SINGAPORE • TORONTO

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