



ANNUAL REVIEW OF GENETICS

VOLUME 33, 1999

ALLAN CAMPBELL, *Editor*
Stanford University, Stanford

WYATT W. ANDERSON, *Associate Editor*
University of Georgia, Athens

ELIZABETH W. JONES, *Associate Editor*
Carnegie Mellon University, Pittsburgh

www.AnnualReviews.org science@annurev.org 650-493-4400

ANNUAL REVIEWS

4139 El Camino Way • P.O. Box 10139 • Palo Alto, California 94303-0139

CONTENTS

HISTORY OF PLANT POPULATION GENETICS, <i>Robert W. Allard</i>	1
FAS LIGAND-INDUCED APOPTOSIS, <i>Shigekazu Nagata</i>	29
MECHANISMS OF STATIONARY PHASE MUTATION: A DECADE OF ADAPTIVE MUTATION, <i>P. L. Foster</i>	57
MOLECULAR GENETICS OF HUMAN RETINAL DISEASE, <i>Amir Rattner, Hui Sun, and Jeremy Nathans</i>	89
LENTIVIRUS REPLICATION AND REGULATION, <i>Hengli Tang, Kelli L. Kuhen, and Flossie Wong-Staal</i>	133
SHUFFLONS: MULTIPLE INVERSION SYSTEMS AND INTEGRONS, <i>Teruya Komano</i>	171
MESSANGER RNA STABILITY AND ITS ROLE IN CONTROL OF GENE EXPRESSION IN BACTERIA AND PHAGES, <i>Marianne Grunberg-Manago</i>	193
MECHANISMS OF MRNA SURVEILLANCE IN EUKARYOTES, <i>P. Hilleren and R. Parker</i>	229
RIBOSOME SYNTHESIS IN <i>SACCHAROMYCES CEREVISIAE</i> , <i>Jaap Venema and David Tollervey</i>	261
THE FRENCH SCHOOL OF GENETICS: FROM PHYSIOLOGICAL AND POPULATION GENETICS TO REGULATORY MOLECULAR GENETICS, <i>R. M. Burian and J. Gayon</i>	313
MITOCHONDRIAL GENOME EVOLUTION AND THE ORIGIN OF EUKARYOTES, <i>B. Franz Lang, Michael W. Gray, and Gertraud Burger</i>	351
GENETICS OF CHEMOTAXIS AND THERMOTAXIS IN THE NEMATODE <i>CAENORHABDITIS ELEGANS</i> , <i>Ikue Mori</i>	399
BACTERIAL CELL DIVISION, <i>L. Rothfield, S. Justice, and J. García-Lara</i>	423
TOWARD AN INTEGRATED GENETIC EPIDEMIOLOGY OF PARASITIC PROTOZOA AND OTHER PATHOGENS, <i>M. Tibayrenc</i>	449
PLANT RETROTRANSPOSONS, <i>Amar Kumar and Jeffrey Bennetzen</i>	479
MAMMALIAN DNA MISMATCH REPAIR, <i>Andrew B. Buermeyer, Suzanne M. Deschênes, Sean M. Baker, and R. Michael Liskay</i>	533
FAMILY VALUES IN THE AGE OF GENOMICS: COMPARATIVE ANALYSES OF TEMPERATE BACTERIOPHAGE HK022, <i>Robert A. Weisberg, Max E. Gottesman, Roger W. Hendrix, and John W. Little</i>	565

MEIOTIC CHROMOSOMES: INTEGRATING STRUCTURE AND FUNCTION, <i>Denise Zickler and Nancy Kleckner</i>	603
INDEXES	
Subject Index	755
Cumulative Index of Contributing Authors, Volumes 29-33	795
Cumulative Index of Chapter Titles, Volumes 29-33	797