



Contents

Human Genetic Individuality <i>Maynard V. Olson</i>	1
Characterization of Enhancer Function from Genome-Wide Analyses <i>Glenn A. Maston, Stephen G. Landt, Michael Snyder, and Michael R. Green</i>	29
Methods for Identifying Higher-Order Chromatin Structure <i>Samin A. Sajan and R. David Hawkins</i>	59
Genomics and Genetics of Human and Primate Y Chromosomes <i>Jennifer F. Hughes and Steve Rozen</i>	83
Evolution of the Egg: New Findings and Challenges <i>Katrina G. Claw and Willie J. Swanson</i>	109
Evolution of the Immune System in the Lower Vertebrates <i>Thomas Boehm, Norimasa Iwanami, and Isabell Hess</i>	127
The Human Microbiome: Our Second Genome <i>Elizabeth A. Grice and Julia A. Segre</i>	151
Functional Genomic Studies: Insights into the Pathogenesis of Liver Cancer <i>Ze-Guang Han</i>	171
A Comparative Genomics Approach to Understanding Transmissible Cancer in Tasmanian Devils <i>Janine E. Deakin and Katherine Belov</i>	207
The Genetics of Sudden Cardiac Death <i>Dan E. Arking and Nona Sotoodehnia</i>	223
The Genetics of Substance Dependence <i>Jen-Chyong Wang, Manav Kapoor, and Alison M. Goate</i>	241
The Evolution of Human Genetic Studies of Cleft Lip and Cleft Palate <i>Mary L. Marazita</i>	263
Genomic Analysis of Fetal Nucleic Acids in Maternal Blood <i>Yuk Ming Dennis Lo and Rossa Wai Kwun Chiu</i>	285

Enzyme Replacement Therapy for Lysosomal Diseases: Lessons from 20 Years of Experience and Remaining Challenges <i>R.J. Desnick and E.H. Schuchman</i>	307
Population Identification Using Genetic Data <i>Daniel John Lawson and Daniel Falush</i>	337
Evolution-Centered Teaching of Biology <i>Karen Burke da Silva</i>	363
Ethical Issues with Newborn Screening in the Genomics Era <i>Beth A. Tarini and Aaron J. Goldenberg</i>	381
Sampling Populations of Humans Across the World: ELSI Issues <i>Bartha Maria Knoppers, Ma'n H. Zawati, and Emily S. Kirby</i>	395
The Tension Between Data Sharing and the Protection of Privacy in Genomics Research <i>Jane Kaye</i>	415
Genetic Discrimination: International Perspectives <i>M. Otlowski, S. Taylor, and Y. Bombard</i>	433

Indexes

Cumulative Index of Contributing Authors, Volumes 4–13	455
Cumulative Index of Chapter Titles, Volumes 4–13	459

Errata

An online log of corrections to *Annual Review of Genomics and Human Genetics* articles may be found at <http://genom.annualreviews.org/errata.shtml>