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The present volume reviews the following topics: Spliceosomal RNA rearrangements, Genetic mosaicism in the house mouse, χ and the RecBCD enzyme of *E. coli*, Regulation of gene expression in chloroplasts and mitochondria, Genetic analysis of extracellular matrix in *Caenorhabditis elegans*, Genetics of bacterial bioluminescence, Hyperphenylalaninemias of man and mouse, Sister-chromatid cohesion in mitosis and meiosis, Mouse coat color genetics, Mammalian pax genes, Horizontal gene flow, Regulation of mRNA stability, Genetics of postmating reproductive isolation in animals, Germline properties, Phytochrome phototransduction pathways, Embryonic pattern formation in flowering plants, Cell fate specification in *Drosophila* peripheral nervous system, Two mammalian cell internalization strategies used by pathogenic bacteria, Evolution of HOX genes, Germline p53 mutations, Genetic and phylogenetic analyses of endangered species, Dosage compensation in *Drosophila* 'Wilms' tumor genetics, Genetic variability of HIV, and Forensic index. All articles were written by the foremost experts in the field.

T. GICHNER (*Praha*)