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The introductory chapter "Following the chromosome path to the garden of the genome." is written by M.-L. Pardue, an early leader in the investigation of the *Drosophila* polytene chromosome and the expression of ribosomal and heat shock genes in the fruitfly. Readers of Biologia Plantarum may find interesting the reviews: "SNARE-WARE: the role of SNARE-domain proteins in plant biology" (V. Lipka *et al.*) and "Embryonic patterning in *Arabidopsis thaliana*" (P.D. Jenik *et al.*). Other topics covered include: "Nonenveloped virus membrane penetration", "Heart field: from mesoderm to heart tube", "Transcription factors in wound healing", "Epithelial stratification", "Two families of chaperonin: physiology and mechanisms", "MicroRNA functions", "Cadherin and catenin mechanisms", "Semaphorin regulation of cellular morphology", "Wing vein patterning in *Drosophila*", "Peroxisome division and inheritance",

"Cilia and developmental signaling", "Calcium signaling in neuronal motility", "Controls of germ cell fates in *Caenorhabditis elegans*", "Hyaluronan in tissue injury and repair", "Secretory mechanisms in cell mediated cytotoxicity", "Biogenesis and function of multivesicular bodies", "Pattern coordination in the *Cerebellum*", "*Arf* family of G proteins", "AMPA receptor trafficking", and "Biology of cancer stem cells".

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T. GICHNER (*Prague*)