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Genetic Models in Cardiorespiratory Biology (Hardback)

By Tian Xu

Taylor Francis Inc, United States, 2001. Hardback. Condition: New. Language: English . Brand New Book. Focusing on the latest breakthroughs in genetic analysis and manipulation, Genetic Models in Cardiorespiratory Biology extensively details how genetic model systems facilitate better comprehension of mammalian and human biology and disease. Highlights studies of *Drosophila melanogaster*, *Caenorhabditis (C.) elegans*, zebrafish, and transgenic mouse models-revealing high functional conservation to homologous genes in humans and promoting insight into biological processes! Applying technical and research advances toward the discovery of potential therapeutic gene agents, Genetic Models in Cardiorespiratory Biology summarizes current knowledge of cellular movements underlying heart tube morphogenesis and the role of genetic analysis in identifying critical molecules in cardiac development and formation illustrates the heterogeneity of tissue responses to hypoxia with genetic and invertebrate examples describes the control and influence of oxygen homeostasis by hypoxia-inducible factor-1 (HIF-1) on embryogenesis, physiology, and disease pathogenesis uses the *Drosophila* model to show the interface between global specification of cardiac competence and cell-type specific differentiation within the developing embryo studies over 40 mutations in zebrafish and mouse genes detailing vertebrate heart development, distinguishing novel genes in cardiac development, and delineating signaling pathways demonstrates the fundamental asymmetrical structure of the node...



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