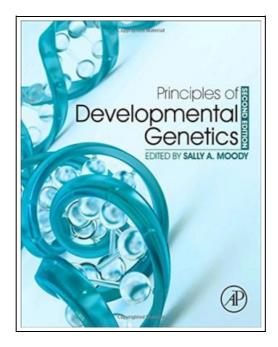
# **Principles of Developmental Genetics**



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## Reviews

This written book is great. I am quite late in start reading this one, but better then never. You will not really feel monotony at at any moment of your time (that's what catalogues are for about when you check with me).

(Abe Reichel DDS)

## PRINCIPLES OF DEVELOPMENTAL GENETICS



Book Condition: New. Publisher/Verlag: Academic Press | Providing expert coverage of all major events in early embryogenesis and the organogenesis of specific systems, and supplemented with representative clinical syndromes, Principles of Developmental Genetics, Second Edition discusses the processes of normal development in embryonic and prenatal animals, including humans. The new edition of this classic work supports clinical researchers developing future therapies with its all-new coverage of systems biology, stem cell biology, new technologies, and clinical disorders. A crystal-clear layout, exceptional full-color design, and bulleted summaries of major takeaways and clinical pathways assist comprehension and readability of the highly complex content. All-new coverage of systems biology and stem cell biology in context of evolving technologies places the work squarely on the modern sciences Chapters are complemented with a bulleted summary for easy digestion of the major points, with a clinical summary for therapeutic application Clinical highlights provides a bridge between basic developmental biology and clinical sciences in embryonic and prenatal syndromes | Section I: Emerging Technologies and Systems Biology 1. Untangling the Gordian knot: Cell signaling events that instruct development 2. RNA-seq and deep sequencing 3. Using mutagenesis in mice and zebrafish for developmental gene discovery 4. Chemical approaches to control stem cell fate 5. BMP signaling and stem cell self-renewal in the Drosophila ovary 6. Genomic Analyses of Neural Stem Cells 7. Chordate origins, stem cells and regeneration Section II: Early Embryology and Morphogenesis 8. Dorsal-ventral axis patterning in insects 9. Building dimorphic forms: an examination of the genetic pathways that intersect embryonic patterning and sex determination 10. Anterior-Posterior patterning in mammals 11. Early development of epidermis and neural tissue 12. Taking the middle road: mesoderm induction and the blastula-gastrula transition 13. Endoderm induction 14. Epithelial branching: mechanisms of patterning and selforganization 15. Lateral line migration Section III: Organogenesis 16....



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