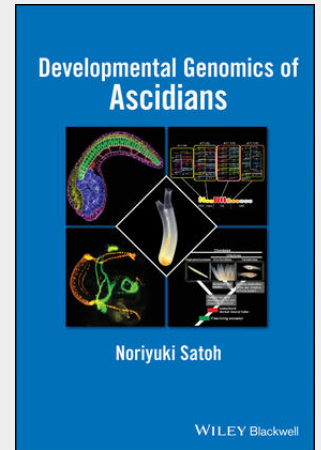


Satoh

Developmental Genomics of Ascidians

The simplicity and lack of redundancy in their regulatory genes have made ascidians one of the most useful species in studying developmental genomics. In *Developmental Genomics of Ascidians*, Dr. Noriyuki Satoh explains the developmental genomics of ascidians, stresses the simplicity of *Ciona* developmental system, and emphasizes single-cell level analyses. This book actively accentuates the advantages of using ascidians as model organisms in an up-and-coming field of developmental genomics.

A comprehensive discussion of the developmental genomics of the model organism, ascidians. Ascidians are quickly becoming one of the most suitable experimental systems in which to explore the cellular and molecular mechanisms of embryonic cell specification and differentiation. The simplicity and lack of redundancy in their regulatory genes have made ascidians one of the most useful species in studying developmental genomics. In *Developmental Genomics of Ascidians*, Dr. Noriyuki Satoh explains the developmental genomics of ascidians and the advantages of using them as model organisms; stresses the simplicity of the *Ciona* developmental system; and emphasizes single-cell level analyses. Following a brief introduction to ascidians, the book provides in-depth chapter coverage of: * The development of tadpole larvae and sessile juveniles * Genomics, transcriptomics, and proteomics * Research tools * The function and regulation of maternal transcripts * Larval tail muscle * Endoderm * Epidermis * Notochord * The nervous system * Mesenchyme * Making a blueprint of the chordate body: dynamic activities of regulatory genes * Development of the juvenile heart * Germ cell lines and stem cells * Self/non-self recognition systems and the ascidian innate immunity system * Evolutionary embryology of ascidians. *Developmental Genomics of Ascidians* is an ideal book for researchers and students in developmental biology, cell biology, molecular biology, genome sciences, and more.



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