

# Hox Genes

Edited by

Olivier Pourquié

Howard Hughes Medical Institute, Stowers Institute for Medical Research  
Kansas City, MO, USA

A subgroup of homeobox genes, which play an important part in the developmental processes in a variety of multicellular organisms, have been shown to be a critical element in vertebrate pattern formation. *Hox* genes can be thought of as general purpose, control genes; that is, they are similar in many organisms and direct the same processes in organisms ranging from the mouse to the fly to humans. This volume reviews current research findings and thoughts on *Hox* genes and provides researchers an overview of the role of *Hox* genes in development biology.

## KEY FEATURES

- Includes chapters discussing the evolutionary development of several organisms, allowing researchers to compare and contrast the role of *Hox* genes in a wide variety of organisms
- Focuses on mechanisms underlying defective *Hox* genes, giving researchers and clinicians insight into how these genes trigger developmental abnormalities
- Provides a comprehensive and up-to-date summary of recent developments in the field of *Hox* biology, making this an essential addition to any laboratory where *Hox* genes are studied.



Published in Affiliation with the  
Society for Developmental Biology

Cover photo © by Catherine Balet  
Artwork by Silvia Esteban



ACADEMIC PRESS

An imprint of Elsevier  
[elsevierdirect.com](http://elsevierdirect.com)

ISBN 978-0-12-374529-3



9 780123 745293