



Development of Auditory and Vestibular Systems-3: Molecular Development of the Inner Ear, Volume 57 (Current Topics in Developmental Biology)

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Thanks to advances in genetics and genomics, research on inner ear development has flourished. Better approaches and experimental models have shed light on the function of a variety of vertebrate genes and their related proteins. This latest volume of **Current Topics in Developmental Biology** delves into this new research to show how the discovery of more genes involved in the development of the inner ear leads to the generation of new models that examine a wealth of issues -- from the origins of human deafness to the roles of genes during inner ear induction, development and differentiation. The wide variety of experimental approaches will help readers to understand the broad range of issues related to inner ear morphogenesis and other concepts from complementary areas of investigation. This state-of-the-art overview will be essential reading for researchers, clinicians and students alike.

- * Scores of high-quality, full- color figures
- * Detailed schemes on the structure and timing of ear development
- * Current Topics in Developmental Biology is the longest-running forum for contemporary issues in developmental biology

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Editorial Review

From the Back Cover

Thanks to advances in genetics and genomics, research on inner ear development has flourished. Better approaches and experimental models have shed light on the function of a variety of vertebrate genes and their related proteins. This latest volume of **Current Topics in Developmental Biology** delves into this new research and shows how as scientists discover more genes involved in the development of the inner ear, new models can be generated to examine a wealth of issues -- from the origins of human deafness to the roles of genes during inner ear induction, development and differentiation.

Reviews include:

MOLECULAR CONSERVATION AND NOVELTIES IN VERTEBRATE EAR DEVELOPMENT

USE OF MOUSE GENETICS FOR STUDYING INNER EAR DEVELOPMENT

FORMATION OF THE OUTER AND MIDDLE EAR, MOLECULAR MECHANISMS

MOLECULAR BASIS OF INNER EAR INDUCTION

FGF SIGNALING IN EAR DEVELOPMENT AND INNERVATION

THE ROLES OF RETINOIC ACID DURING INNER EAR DEVELOPMENT

HAIR CELL DEVELOPMENT IN HIGHER VERTEBRATES

GROWTH FACTORS AND EARLY DEVELOPMENT OF OTIC NEURONS

THE CELL CYCLE AND THE DEVELOPMENT AND THE REGENERATION OF HAIR CELLS

The wide variety of experimental approaches presented in this volume will help readers follow current research in developmental inner ear biology and conceive the range of issues related to inner ear morphogenesis and concepts from complementary areas of investigation. This state-of-the-art overview will be essential reading for researchers, clinicians and students alike.

About the Author

Edited by Raymond Romand and Isabel Varela-Nieto

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Multidisciplinary coverage devoted to the molecular and genetic development of the inner ear

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