



Brian K. Hall



# **The Neural Crest and Neural Crest Cells in Vertebrate Development and Evolution**



 Springer

# The Neural Crest In Development And Evolution

**Brian K. Hall**

## **The Neural Crest In Development And Evolution:**

**The Neural Crest and Neural Crest Cells in Vertebrate Development and Evolution** Brian K. Hall, 2008-12-28 A presentation of all aspects of neural crest cell origins embryological and evolutionary development and evolution neural crest cell behavior migration and anomalies neurocristopathies and birth defects that arise from defective neural crest development The treatment of development will include discussions of cellular molecular and genetic aspects of the differentiation and morphogenesis of neural crest cells and structures derived from neural crest cells The origins of the neural crest in embryology will be discussed using the recent information on the molecular basis of the specification of the neural crest Also presented are the advances in our understanding of the evolution of jaws from studies on lampreys and of the neural crest from studies on ascidians and amphioxus *The Neural Crest in Development and Evolution* Brian K.

Hall, 1999-07-30 A discussion of the neural crest and neural crest cells dealing with their discovery their embryological and evolutionary origins their cellular derivatives in both agnathan and jawed vertebrates or gnathostomes and the broad topics of migration and differentiation in normal development The book also considers what goes wrong when development is misdirected by mutations or by exposure of embryos to exogenous agents such as drugs alcohol or excess vitamin A and includes discussions of tumours and syndromes and birth defects involving neural crest cells

**The Neural Crest and Neural Crest Cells in Vertebrate Development and Evolution** Brian K. Hall, 2008-11-01 A presentation of all aspects of neural crest cell origins embryological and evolutionary development and evolution neural crest cell behavior migration and anomalies neurocristopathies and birth defects that arise from defective neural crest development The treatment of development will include discussions of cellular molecular and genetic aspects of the differentiation and morphogenesis of neural crest cells and structures derived from neural crest cells The origins of the neural crest in embryology will be discussed using the recent information on the molecular basis of the specification of the neural crest Also presented are the advances in our understanding of the evolution of jaws from studies on lampreys and of the neural crest from studies on ascidians and amphioxus

**Neural Crest Cells** Paul Trainor, 2013-11-23 Neural Crest Cells Evolution Development and Disease summarizes discoveries of historical significance and provides in depth current analyses of the evolution of neural crest cells their contribution to embryo development and their roles in disease In addition prospects for tissue engineering repair and regeneration are covered offering a timely synthesis of the current knowledge in neural crest cell research A comprehensive resource on neural crest cells for researchers studying cell biology developmental biology stem cells and neurobiology Neural Crest Cells Evolution Development and Disease provides foundational information needed for students practicing physicians and dentists treating patients with craniofacial defects BMA Medical Book Awards 2014 Highly Commended Basic and Clinical Sciences 2014 British Medical Association Provides timely comprehensive synthesis of the current knowledge of neural crest cells Covers the evolution and development of neural crest cells Includes content on

applications for tissue engineering repair and regeneration

### **Developmental and Evolutionary Aspects of the Neural Crest**

Paul F. A. Maderson, 1987-10-23 Brings together important contributions by professionals in a range of fields. Its three major sections focus on the developmental biology of the neural crest, recent advances in this area and how current insights are contributing to our understanding of the development and organization of the nervous system and the relationship between the neural crest and skeletal evolution. Topics discussed include interactions between cephalic neural crest and mesodermal populations, the role of tissue interactions in the evolution of the vertebrate head, tooth development in the mammalian embryo in relation to the neural crest and much more. Extensively illustrated with over 130 pieces of artwork.

**Evolving Neural Crest Cells** Brian Frank Eames, Daniel Meulemans, Medeiros, Igor Adameyko, 2020-07-28 Vertebrates possess lineage specific characteristics. These include paired anterior sense organs and a robust modular head skeleton built of cellular cartilage and bone. All of these structures are derived at least partly from an embryonic tissue unique to vertebrates, the neural crest. The evolutionary history of the neural crest and neural crest cells has been difficult to reconstruct. This volume will use a comparative approach to survey the development of the neural crest in vertebrates and neural crest like cells across the metazoa. This information will be used to reveal neural crest evolution and identify the genomic, genetic and gene regulatory changes that drove them. Key selling features: Summarizes the data regarding neural crest cells and neural crest derivatives; Uses a broad based comparative approach; Suggests hypothesis that the origin of neural crest cells involved the novel co activation of ancient metazoan gene programs in neural border cells; Illustrates how the emergences of neural crest made possible the diversification of vertebrate heads.

[Neural Crest and Placodes](#), 2015-02-03 Neural Crest and Placodes provides in depth coverage of the topic including information on their critical role in vertebrate development, evolution and the way defects in their development underlie a wide range of congenital disorders. It delves deep into advances made in our understanding of the mechanisms governing the formation, migration and differentiation of these two cell populations also discussing their integration during embryonic development. The text highlights the application of fundamental knowledge in investigating the etiology and pathogenesis of congenital disorders and the ways the data applies to the field of regenerative medicine. Written by leading experts in the field. Includes descriptions of the most recent advances in the field. Highlights the applications of this knowledge in investigating the etiology and pathogenesis of congenital disorders. Explores their usage in the field of regenerative medicine.

**Evolution and Development**, 2009-04-08 The marriage of evolutionary biology with developmental biology has resulted in the formation of a new field, evolutionary developmental biology or evo devo. This volume reviews current research findings and thought in the broad field of evo devo, looking at the developmental genetic mechanisms that cause variation and how alterations of these mechanisms can generate novel structural changes in a variety of plant and animal life. Reviews current research findings and thought on evolutionary developmental biology, providing researchers an overview and synthesis of the latest research findings and

contemporary thought in the area Includes chapters discussing the evolutionary development of a wide variety of organisms and allows researchers to compare and contrast how genes are expressed in a variety of organisms from fly to frog to humans Emphasizes the role of regulatory DNA in evolutionary development to give researchers perspective on how the regions of the genome that control gene expression and the protein factors that bind them are ultimately responsible for the diversity of life that has evolved *The Neural Crest* Brian Keith Hall,1988

### **Evolution and Development of Fishes**

Zerina Johanson,Charlie Underwood,Martha Richter,2019-01-10 World class palaeontologists and biologists summarise the state of the art on fish evolution and development

### **Evolution of Nervous Systems** Georg F. Striedter,Theodore H.

Bullock,Todd M. Preuss,John Rubenstein,Leah A. Krubitzer,2016-11-23 Evolution of Nervous Systems Second Edition Four Volume Set is a unique major reference which offers the gold standard for those interested both in evolution and nervous

systems All biology only makes sense when seen in the light of evolution and this is especially true for the nervous system All animals have nervous systems that mediate their behaviors many of them species specific yet these nervous systems all evolved from the simple nervous system of a common ancestor To understand these nervous systems we need to know how they vary and how this variation emerged in evolution In the first edition of this important reference work over 100 distinguished neuroscientists assembled the current state of the art knowledge on how nervous systems have evolved throughout the animal kingdom This second edition remains rich in detail and broad in scope outlining the changes in brain and nervous system organization that occurred from the first invertebrates and vertebrates to present day fishes reptiles birds mammals and especially primates including humans The book also includes wholly new content fully updating the chapters in the previous edition and offering brand new content on current developments in the field Each of the volumes has been carefully restructured to offer expanded coverage of non mammalian taxa mammals primates and the human nervous system The basic principles of brain evolution are discussed as are mechanisms of change The reader can select from chapters on highly specific topics or those that provide an overview of current thinking and approaches making this an indispensable work for students and researchers alike Presents a broad range of topics ranging from genetic control of development in invertebrates to human cognition offering a one stop resource for the evolution of nervous systems throughout the animal kingdom Incorporates the expertise of over 100 outstanding investigators who provide their conclusions in the context of the latest experimental results Presents areas of disagreement and consensus views that provide a holistic view of the subjects under discussion

### **Chordate Origins and Evolution** Noriyuki Satoh,2016-07-14

Chordate Origins and Evolution The Molecular Evolutionary Road to Vertebrates focuses on echinoderms starfish sea urchins and others hemichordates acorn worms etc cephalochordates lancelets urochordates or tunicates ascidians larvaceans and others and vertebrates In general evolution of these groups is discussed independently on a larger scale ambulacrarians echi hemi and chordates cephlo uro vert Until now discussion of these topics has been somewhat fragmented and this work

provides a unified presentation of the essential information. In the more than 150 years since Charles Darwin proposed the concept of the origin of species by means of natural selection which has profoundly affected all fields of biology and medicine the evolution of animals metazoans has been studied, discussed and debated extensively. Following many decades of classical comparative morphology and embryology the 1980s marked a turning point in studies of animal evolution when molecular biological approaches including molecular phylogeny, MP, molecular evolutionary developmental biology, evo devo and comparative genomics, CG, began to be employed. There are at least five key events in metazoan evolution which include the origins of 1. diploblastic animals such as cnidarians, 2. triploblastic animals or bilaterians, 3. protostomes and deuterostomes, 4. chordates among deuterostomes and 5. vertebrates among chordates. The last two have received special attention in relation to evolution of human beings. During the past two decades great advances have been made in this field especially in regard to molecular and developmental mechanisms involved in the evolution of chordates. For example the interpretation of phylogenetic relationships among deuterostomes has drastically changed. In addition we have now obtained a large quantity of MP, evo devo and CG information on the origin and evolution of chordates. Covers the most significant advances in this field to give readers an understanding of the interesting biological issues involved. Provides a unified presentation of essential information regarding each phylum and an integrative understanding of molecular mechanisms involved in the origin and evolution of chordates. Discusses the evolutionary scenario of chordates based on two major characteristic features of animals namely modes of feeding, energy sources and reproduction as the two main forces driving animal evolution and benefiting dialogue for future studies of animal evolution.

*Epigenetic Control of Neural Crest Development and Evolution* Megan Rothstein, 2022. Embryogenesis is characterized by the formation of a complex multicellular organism from a single pluripotent cell. My thesis research has explored this phenomenon through the lens of an embryonic cell population called the neural crest. Neural crest cells are a vertebrate specific cell type that gives rise to a diverse cell lineage in the developing embryo. The neural crest is postulated to serve as a key driver of vertebrate evolution contributing to a number of structures in the adult body plan including the peripheral nervous system, the pigmentation of the skin and the craniofacial skeleton. Neural crest cell fate commitment requires not only shifts in gene expression but also an extensive remodeling of the epigenomic landscape. Even so we still have a superficial understanding of the epigenetic mechanisms which promote neural crest identity. To examine the cis regulatory landscape of neural crest development I have coupled both classical embryology approaches and genomic techniques to explore cell state changes underlying neural crest identity. To determine how chromatin states are reorganized during neural crest formation I examined the function of pioneer factor TFAP2A at discrete stages of development. Through this work I characterized a mechanism by which TFAP2A remodels the epigenome to allow for progressive cell fate commitment within the neural crest lineage. Next I aimed to understand the epigenetic basis of neural crest developmental plasticity by performing a cis regulatory comparison between two neural crest subpopulations the

cranial and trunk neural crest. This allowed me to identify TGF<sub>β</sub> signaling as a potent regulator of cranial neural crest identity. Lastly, I sought to determine how the cis regulatory landscape is modulated in neural crest cells of different species to give rise to evolutionary novelty. As the craniofacial skeleton is largely derived from the neural crest, I investigated the epigenetic mechanisms driving interspecific variation in beak morphology during avian embryonic development. By performing single cell ATAC seq in neural crest cells isolated from three avian species: chicken, quail, and duck, I identified conserved cis regulatory regions displaying species specific accessibility and discovered a potential role for homeodomain transcription factors in modulating the neural crest epigenetic landscape across species. Together, these studies highlight how the epigenome shapes various aspects of cellular identity throughout development and evolution.

### **Human Embryology and Developmental Biology** Bruce M. Carlson, 2018-11-30 Completely revised from cover to cover. Human Embryology and Developmental Biology 6th Edition helps you master complex concepts on every aspect of normal and abnormal human development. Dr. Bruce M. Carlson provides authoritative, readable coverage of today's scientific knowledge in this fast-changing field, keeping you up to date with what you need to know for coursework, exams, and clinical practice. Features an extensive full-color illustration program with hundreds of superb clinical photos and embryological drawings, more than 50 new to this edition. Presents information in an integrated, easy-to-follow manner, incorporating molecular, experimental, and morphological material into each relevant area of the text. Includes numerous new high-quality photos of congenital malformations. Provides major updates to many topics, including neuroembryology, early embryology, fetal imaging techniques, somite formation, and craniofacial development. Newly added series of animations for visualization of complex embryological processes. Helps you understand the molecular basis of embryology, including the processes of branching and folding, essential knowledge for determining the root of many abnormalities. Features clinical vignettes and Clinical Correlations boxes to help you better understand the clinical manifestations of developmental abnormalities.

**Human Embryology and Developmental Biology E-Book** Bruce M. Carlson, 2023-08-26 Bruce Carlson's Human Embryology and Developmental Biology is one of the most detailed texts available for those who want to truly understand both the morphological and molecular aspects of human embryological development. Fully updated in its seventh edition, the book provides a thorough grounding in all aspects of embryology. It presents in detail the molecular and cellular basis for embryological processes from early development through to development of body systems. It covers examples of congenital malformations and their underlying mechanisms and comes complete with clinical vignettes and review questions to support learning. This book will suit medical and science students taking embryology courses as well as scientists and clinicians who find themselves returning to this topic throughout their careers. Clear and consistent writing style, highly readable and well focused. Extensively illustrated to demystify complex topics. Good selection of original photographs of congenital anomalies to assist with identification. Review questions and suggested readings for further learning. Series of animations of complex

embryological processes to accompany the text explanations Clinical correlation boxes vignettes and summary boxes for quick revision An enhanced eBook version is included with purchase The eBook allows you to access all the text figures and references with the ability to search customize your content make notes and highlights and have content read aloud Many new drawings and photographs Thoroughly updated with recent research to advance understanding Expanded treatment of newly understood molecular pathways Major updates on gametes body axis formation placental pathology adipose tissue intestinal and facial development

**The Neural Crest** Nicole Le Douarin, Chaya Kalcheim, 1999-11-28 This 1999 edition of The Neural Crest contains comprehensive information about the neural crest a structure unique to the vertebrate embryo which has only a transient existence in early embryonic life The ontogeny of the neural crest embodies the most important issues in developmental biology as the neural crest is considered to have played a crucial role in evolution of the vertebrate phylum Data that analyse neural crest ontogeny in murine and zebrafish embryos have been included in this revision This revised edition also takes advantage of recent advances in our understanding of markers of neural crest cell subpopulations and a full chapter is now devoted to cell lineage analysis The major research breakthrough since the first edition has been the introduction of molecular biology to neural crest research enabling an elucidation of many molecular mechanisms of neural crest development This book is essential reading for students and researchers in developmental biology cell biology and neuroscience

**Development and Evolution in the Salamander Family Plethodontidae** Andres Collazo, 1990

**Evolution's Clinical Guidebook** Jules J. Berman, 2019-04-25 Evolution's Clinical Guidebook Translating Ancient Genes into Precision Medicine demonstrates through well documented examples how an understanding of the phylogenetic ancestry of humans allows us to make sense out of the flood of genetic data streaming from modern laboratories and how it can lead us to new ways to prevent diagnose and treat diseases Topics cover evolution and human genome meiosis and other recombinants events embryology speciation phylogeny rare and common diseases and the evolution of aging This book is a valuable source for bioinformaticians and those in the biomedical field who need knowledge down to gene level to fully comprehend currently available data Offers an innovative approach focusing on how disease associated pathways evolved Explains how the fields of phylogeny and embryology have become closely tied to the fields of genetics and bioinformatics Demonstrates how students and biomedical professionals can apply the knowledge obtained in this book to the theory and practice of precision medicine

*Development and Evolution of Pigmentation Patterns in Fishes of the Genus Danio (Teleostei: Cyprinidae)* Michelle M. McClure, 1998 [Genetic Correlates of Neural Crest Evolution](#) Daniel Keith Meulemans, California Institute of Technology, Division of Biology, 2004 Neural crest cells are unique to vertebrates and generate most of the adult structures that distinguish them from their closest invertebrate relatives the cephalochordates To elucidate the molecular bases of neural crest evolution I analyzed the expression function and cis regulation of amphioxus genes with vertebrate homologs having established roles in neural crest development By comparing these amphioxus genes

with their agnathan and gnathostome homologs I have uncovered genetic changes coincident with and potentially causal to the origins of neural crest I demonstrate that three transcriptional regulators involved with neural crest development AP 2 Id and SoxE were recruited to the neural plate border early in vertebrate evolution implying that genetic cooption of high order transcription factors was a major driving force in neural crest evolution I also show that the function of the Snail protein in establishing the neural plate border was not significantly altered during vertebrate evolution although vertebrate Snail genes may have evolved novel domains necessary for later functions in neural crest cells Finally I began characterizing the cis regulation of vertebrate and amphioxus Slug Snail orthologs to determine if divergent aspects of Snail gene expression i e expression in neural crest cells are reflected in structural differences in Snail cis regulatory DNA Using this 3 tiered approach I have begun to define the novel genetic regulatory interactions that drove the evolution of neural crest cells in the vertebrate lineage

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