



Optic vesicle  
formation

Optic vesicle  
development

Optic cup  
development

Matured optic  
cup and lens.

# Vertebrate Eye Development

**Carl H. Eigenmann**



## **Vertebrate Eye Development:**

Vertebrate Eye Development M. Elizabeth Fini, 2012-09-07 Who would believe that so small a space could contain the images of all the universe Leonardo da Vinci The last years of the 20th century have found the discipline of Developmental Biology returning to its original position at the forefront of biological research This progress can be attributed to the burgeoning knowledge base on molecules and gene families and to the power of the molecular genetic approach Topping the list of organ systems which have provided the most significant advances would have to be the eye The vertebrate eye was one of the classic embryologic models used to demonstrate many important principles including the concepts of inductive tissue interactions first put forth in the early 1900s Within the last decade of this century a return to some of the old questions with the new approaches has put eye development back into the limelight I find this a highly appropriate topic for a book which aims to spark research for the new millennium We begin with a chapter that discusses the anatomy of eye development providing the basic reference information for the chapters that follow A novel aspect of this introduction is the connection made between developmental strategies and the eye's optical function What also emerges from this chapter is the number of important eye structures that have barely been touched by the modern developmental biologist Work on cornea and anterior chamber development has lagged behind lens and retina *Vertebrate Eye Development* M Elizabeth Fini, 2000-06-07

**Invertebrate and Vertebrate Eye Development**, 2010-11-24 Vision is our primary sensory modality and we are naturally curious as to how the visual system assembles The visual system is in many ways remarkably simple a repeating assemblage of neurons and support cells that parse the visual field through precision and redundancy Through this simplicity the eye has often led the way in our exploration of how an organ is assembled Eye development has therefore long been a favorite for exploring mechanisms of cell fate choice patterning and cell signaling This volume which is part of the Current Topics in Developmental Biology series highlights the exceptional advances over the past 20 years Chapters emphasize our knowledge of transcription factors and how these generate networks to direct the eye field and associated structures Topics such as cell fate specification are also explored along with the potential of *Drosophila* as a model for lens formation and the progress made in using the *Drosophila* eye to examine planar cell polarity Contributions from researchers who are active in identifying new paradigms to explore Review of our current state of knowledge Chapters written by authors with a new generation approach that takes a more systems approach to identifying factors and better defines cell subtypes The Visual System in Vertebrates F. Crescitelli, 2013-12-11 The vertebrate eye has been and continues to be an object of interest and of inquiry for biologists physicists chemists psychologists and others Quite apart from its important role in the development of ophthalmology and related medical disciplines the vertebrate eye is an exemplar of the ingenuity of living systems in adapting to the diverse and changing environments in which vertebrates have evolved The wonder is not so much that the visual system like other body systems has been able to adapt in this way but rather that these adaptations have taken

such a variety of forms In a previous volume in this series VII I Eakin expressed admiration for the diversity of invertebrate photoreceptors A comparable situation exists for the vertebrate eye as a whole and one object of this volume is to present to the reader the nature of this diversity One result of this diversification of ocular structures and properties is that the experimental biologist has available a number of systems for study that are unique or especially favorable for the investigation of particular questions in visual science or neurobiology This volume includes some examples of progress made by the use of such specially selected vertebrate systems It is our hope that this comparative approach will continue to reveal new and useful preparations for the examination of important questions

**Developmental Mechanisms of Vertebrate Eye Rudiments** Georgii Viktorovich Lopashov,1963 *Development of the Visual System* S.P. Bhat,2004-01-01 All the tissues of the eye including the lens the cornea the ciliary body the neuroretina and the retinal pigment epithelium must work in harmony for the realization of clear vision The phenotypic emergence of each of these tissues requires intercellular communication which is achieved through direct physical contact as well as through diffusion and reception of the molecular beacons This volume provides an overview of the molecular and cellular biology of eye development and encompasses themes like early gene expression in the surface ectoderm and the optic cup retinal neurogenesis signaling molecules and axonal guidance It presents new findings on the influence of the lens on the development of the visual system and how gene expression in the optic cup controls differentiation of the lens fiber cell while established ideas about the morphogenesis of the ciliary body are challenged A valuable source of information for developmental biologists and neurobiologists as well as ophthalmologists interested in understanding the relationship between temporally and spatially regulated gene activity and function and cellular interactions in early development and neuronal functions

**Ventral Anterior Homeobox (Vax) Genes in Vertebrate Eye Development** Stina Hung Mui,2002 Garner and Klintworth's Pathobiology of Ocular Disease (Part B) Gordon K. Klintworth,Alec Garner,2007-11-01 Moving from a standard clinical reference this third edition is now modelled to be both a scientific research tool and a quick reference option for the practicing ophthalmologist ophthalmic pathologist optometrist and vision scientist With the addition of ten new chapters this edition focuses its attention on the causes and mechanisms of ocular disease and is on the forefront of the latest discovered research methods and on going research in ocular disease

The Evolution of the vertebrates and their kin William Patten,1912 **The Development of the Human Eye** Ida Mann,1928 **Molecular Analysis of Early Vertebrate Eye Development** Katherine Lucy Hammond,1999 Cave Vertebrates of America Carl H. Eigenmann,1909 *The eyes of the blind vertebrates of North America* Carl H. Eigenmann,1899 **The Visual System in Evolution in Vertebrates** Frederick Crescitelli,1977 **Discussion of the Origin of Vertebrates, January 20 and February 3, 1910** Walter Holbrook Gaskell,1910 **Characterization of Retinoic Acid Synthesis and Signalling in Vertebrate Eye Development** Caroline S. T. Cheng,2016 Normal eye development requires a complex series of morphological movements and ocular patterning with

aberrant eye development resulting in birth defects and retinal dystrophies Eleven percent of paediatric blindness is caused by microphthalmia small eyes anophthalmia no eyes and coloboma incomplete optic fissure closure collectively known as MAC The incidence of eye birth defects is higher in developing nations where vitamin A deficiency is more prevalent Vitamin A plays an essential role in organ development including ocular embryogenesis The biologically active derivative of vitamin A retinoic acid RA is required for proper brain formation and neurogenesis but its precise role in eye development remains unclear Proper eye morphogenesis requires a tight coordination of complex morphogenetic movements and precise spatial and temporal gene expression Mutations in RA synthesis enzyme aldehyde dehydrogenase 1a3 *aldh1a3* are associated with human MAC cases We hypothesize that retinoic acid synthesized in the dorsal and ventral retina is required for proper eye morphology and proper optic fissure closure To test this hypothesis we used a combinatorial approach to block RA synthesizing enzymes thereby reducing endogenous levels of RA during embryogenesis To achieve this we depleted three RA synthesis enzymes that are expressed within dorsal and or ventral domains of the retina aldehyde dehydrogenase 1a2 *aldh1a2* aldehyde dehydrogenase 1a3 *aldh1a3* and cytochrome p450 1b1 *cyp1b1* We studied the function of RA using zebrafish a genetically tractable model vertebrate whose transparent embryogenesis and external fertilization enables observation of eye development Our studies revealed that RA is required for the closure of the optic fissure and may be implicated in the regulation of eye size However RA signalling is not required for dorsoventral retinal patterning Interestingly we observed that RA synthesized within the ventral retina signals within the dorsal retina The vertebrate retina is a highly organized and laminar structure the development of which is conserved among all vertebrates Differentiation of retinal cell types from retinal progenitor cells is influenced by extrinsic and intrinsic factors Previous studies have shown that sustained high levels of RA influences retinal cell fate decision To better understand how RA synthesized in the retina is required for retinal neurogenesis we used depleted RA synthesis enzymes to reduce endogenous RA levels We observed a depletion of RA levels results in a reduction of rod photoreceptors Further we have obtained preliminary data that suggests that RA levels influence cone photoreceptor fate biasing towards the differentiation of blue and ultraviolet UV sensitive cones Taken together we observed that RA plays a role both in eye morphogenesis as well as retinal neurogenesis This analysis is paving the way to understanding how mutations in RA synthesizing enzymes are causing ocular pathologies

**The Encyclopædia Britannica**, 1898      **The World-wide Encyclopedia and Gazetteer** William Harrison De Puy, 1899

**Manual of Human Embryology: Fertilization** Franz Keibel, 1912      **The Encyclopædia Britannica** Day Otis Kellogg, Thomas Spencer Baynes, William Robertson Smith, 1902

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