

# The Vertebrate Visual System

## Structure of the Eye

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- In vertebrates, eye detects color/light, but brain assembles information and perceives image
- Main parts of vertebrate eye
  - **Sclera**: white outer layer, including cornea (transparent front/ lets light in/acts as fixed lens)
  - **Choroid**: pigmented inner layer which includes Iris (colored portion of eye/regulates size of **pupil**)
  - **Retina**: innermost layer/has layers of neurons/photoreceptors
  - **Lens**: focuses light on retina
  - **Optic disk: blind spot** (no photoreceptors) in retina where optic nerve attaches to eye

# Vertebrate Visual System

**Katherine V. Fite**



## Vertebrate Visual System:

The Vertebrate Visual System Stephen Lucian Polyak, 1957      The Vertebrate Visual System Stephen Polyak, 1957

*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      The Vertebrate Visual System Stephen Lucian Polyak, Stephen Polyak, 1957

**The Visual System of Fish** Ron Douglas, Mustafa Djamgoz, 2012-12-06 A question often asked of those of us who work in the seemingly esoteric field of fish vision is why To some of us the answer seems obvious how many other visual scientists get to dive in a tropical lagoon in the name of science and then are able to eat their subjects for dinner However there are better or at least scientifically more acceptable reasons for working on the visual system of fish First in terms of numbers fish are by far the most important of all vertebrate classes probably accounting for over half c 22 000 species of all recognized vertebrate species Nelson 1984 Furthermore many of these are of commercial importance Secondly if one of the research aims is to understand the human visual system animals such as fish can tell us a great deal since in many ways their visual systems and specifically their eyes are similar to our own This is fortunate since there are several techniques such as intracellular retinal recording which are vital to our understanding of the visual process that cannot be performed routinely on primates The cold blooded fish on the other hand is an ideal subject for such studies and much of what we know about for example the fundamentals of information processing in the retina is based on work carried out on fish e g Svaetichin 1953      The Vertebrate Visual System. Its Origin, Structure, and Function and Its Manifestations in Disease, with an Analysis of Its Role in the Life of Animals and in the Origin of Man. Preceded by a Historical Review of Investigations of the Eye, and of the Visual Pathways and Centres of the Brain ... Edited by Heinrich Klüver. [With Plates, Including a Portrait, and a Bibliography.]. Stefan Lucijan POLJAK, Heinrich KLUEVER, 1957

*The Visual System in Vertebrates* Frederick Crescitelli, 1977      **The Vertebrate Visual System** Stephen L. Polyak, 1968      *The Primate Visual*

*System* Jon H. Kaas, Christine E. Collins, 2003-07-28 The last 20 years of research have been marked by exceptional progress in understanding the organization and functions of the primate visual system This understanding has been based on the wide application of traditional and newly emerging methods for identifying the functionally significant subdivisions of the system their interconnections the [The Amphibian Visual System](#) Katherine V. Fite, 2013-09-03 The Amphibian Visual System A Multidisciplinary Approach is a compendium of articles across a broad range of disciplines within experimental biology focusing on the study of the amphibian visual system The book presents a survey of the evolutionary history and major taxonomic and ecological adaptations of amphibians anatomic physiological developmental and behavioral data relating to the amphibian visual system description of important standards for laboratory amphibians and the crucial problem of species identification in neurobiological research Zoologists experimental biologists neurologists and anatomists will find the text very interesting

**The Vertebrate Visual System. Its Origin, Structure, and Function and Its Manifestations in Disease ...** Stephen Lucian Polyak, 1957 **The Vertebrate Visual System; Its Origin, Structure, and Function and Its Manifestations in Disease with an Analysis of** Stephen Lucian Polyak, Heinrich Kluver, 1957 **The Visual System in Evolution in Vertebrates** Frederick Crescitelli, 1977 *Developmental Neurobiology* Lynne Bianchi, 2017-10-25

*Developmental Neurobiology* tells the extraordinary process of neural development by showing how the scientific discoveries were made and how the hypotheses evolved over time Each chapter explores the specific mechanisms of development while highlighting the key experiments and methods used to make those discoveries including descriptions of and experiments utilizing both invertebrate and vertebrate animal models This distinctive approach provides the essential facts while strengthening the reader's appreciation of the scientific method Discussions of neurodevelopmental disorders and therapeutic approaches to them will captivate those interested in the more clinical aspects of the field With its clear illustrations and easy to follow writing style *Developmental Neurobiology* presents an accessible approach to neural development for undergraduate students

**Development of the Visual System** Retina Research Foundation (U.S.). Symposium, 1991 *Development of the Visual System* presents a selection of current studies that clearly illustrate principles of visual system development These range from retinal development in fish and frogs to the effects of abnormal visual experience on the primary visual cortex of the cat The book is unique in addressing four specific and fundamental aspects of development cell lineage and cell fate specificity and targeting of axons specification of visual cortex and correlates of the critical period Encompassing technical advances in cellular and molecular biology and in video imaging and microscopy contributions in each of these areas provide new information at the cellular and molecular levels to complement the now classic descriptions of visual development previously available at the level of neural systems Contributors Karen L Allendoerfer David M Altshuler Antonella Antonini Seymour Benzer Edward M Callaway Constance L Cepko Hollis T Cline Max S Cynader N W Daw Scott E Fraser K Fox Eckhard Friauf Anirvan Ghosh R W Guillery William A Harris Christine E Holt

Lawrence C Katz Susan McConnell Pamela A Raymond Thomas A Reh Carla J Shatz Michael P Stryker Claudia A O Stuermer  
Mriganka Sur David L Turner T N Wiesel *Vision in Vertebrates* M. A. Ali, 2012-12-06 When Dr Katherine Tansley's *Vision  
in Vertebrates* appeared in 1965 it filled a real void that had hitherto existed It did so by serving at once as a text book for an  
undergraduate course a general introduction to the subject for post graduate students embarking on research on some  
aspect of vision and the interested non specialists Gordon Walls *The Vertebrate Eye and Its Adaptive Radiation* and A  
Rochon Duvigneaud's *Les Yeux et la Vision des Vertebres* have served as important sources of information on the subject and  
continue to do so even though it is 40 years since they appeared However they are essentially specialised reference works  
and are not easily accessible to boot The genius of Katherine Tansley was to present in a succinct 132 pages and lucid way a  
clear and an interesting survey of the matter Everyone liked it particularly the students because one could read it quickly and  
understand it Thus when it seemed that a new edition was desirable especially in view of the enormous strides made and the  
vast literature that had accumulated in the past 20 years one of us MAA asked Dr Tansley if she would undertake the task  
Since she is in retirement and her health not in a very satisfactory state both she and her son John Lythgoe himself a  
specialist of vision asked us to take over the task **Research Grants Index** National Institutes of Health (U.S.). Division of  
Research Grants, 1975 *Research Awards Index*, 1978 Functional Vertebrate Morphology Milton Hildebrand, 1985  
The Evolution of the Nervous System in Invertebrates, Vertebrates and Man Cornelius Ubbo Ariëns Kappers, 1929

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