

Vertebrate Eye Development Results And Problems In Cell Differentiation

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Vertebrate Eye Development Results And

The vertebrate eye was one of the classic embryologic models in the early 1900s. Within the last decade of the 20th century, a return to some of the old questions with the new approaches has put eye development back into the limelight. This book provides an up-to-date and comprehensive overview of the field.

Vertebrate Eye Development (Results and Problems in Cell ...

We summarize results from disparate fields: the emergence of the vertebrate (camera-like) eye, the evolution of photoreceptors, the phylogeny of opsins, the development of the eye cup, and the...

Evolution of the vertebrate eye: opsins, photoreceptors ...

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Vertebrate Eye Development | SpringerLink

phological sign of eye development in vertebrates is the bilateral ev agination of diencephalon in the early neurula (Figure 1 A). In mammals, this is marked by

(PDF) Early eye development in vertebrates

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Vertebrate Eye Development Results And Problems In Cell ...

Vertebrate Eye Development and Refractive Function -- Early Pattern Formation. Pax-6 and the Genetic Control of Early Eye Development. Early Retinal Development in Drosophila -- Embryonic Induction. Induction of the Lens -- Retinal Differentiation. Molecular Control of Cell Diversification in the Vertebrate Retina.

Vertebrate Eye Development (eBook, 2000) [WorldCat.org]

These results, together with the early expression of vertebrate Pax6 genes in the anterior neural plate (Grindley et al., 1995, Hirsch and Harris, 1997, Li et al., 1994, Loosli et al., 1998, Püschel et al., 1992, Walther and Gruss, 1991) has led to the suggestive 'master control gene hypothesis' for Pax6, as key regulator of eye development conserved throughout bilaterian evolution (Gehring and Ikeo, 1999, Halder et al., 1995b, Quring et al., 1994).

An eye on eye development - ScienceDirect

ABSTRACT The paired-like homeobox-containing gene Rx has a critical role in the eye development of several vertebrate species including *Xenopus*, mouse, chicken, medaka, zebrafish and human. Rx is initially expressed in the anterior neural region of developing embryos, and later in the retina and ventral hypothalamus.

Regulation of vertebrate eye development by Rx genes

Our results support a model of progressive tissue specification in which neural induction then Otx2-driven neural patterning primes the anterior neural plate for eye field formation. Next, the EFTFs form a self-regulating feedback network that specifies the vertebrate eye field. We find striking similarities and differences to the network of homologous *Drosophila* genes that specify the eye imaginal disc, a finding that is consistent with the idea of a partial evolutionary conservation of eye ...

Specification of the vertebrate eye by a network of eye ...

In most vertebrates and some molluscs, the eye works by allowing light to enter and project onto a light-sensitive panel of cells, known as the retina, at the rear of the eye. The cone cells (for colour) and the rod cells (for low-light contrasts) in the retina detect and convert light into neural signals for vision.

Eye - Wikipedia

development of several vertebrate species including *Xenopus*, mouse, chicken, medaka, zebrafish and human. Rx is initially expressed in the anterior neural region of developing embryos, and later in the retina and ventral hypothalamus. Abnormal regulation or function of Rx results in severe abnormalities of eye

Regulation of vertebrate eye development by Rx genes.

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Vertebrate Eye Development Results And Problems In Cell ...

Firstly, the most important advances in the organization of what would eventually become the vertebrate eye occurred over 500 million years ago (Mya), prior to the evolution of hard body parts (like a bony skeleton), and as a result, many such advances in the arrangement of the vertebrate eye occurred in animals that are either not preserved, or else are very poorly represented in the fossil record.

The Origin of the Vertebrate Eye | SpringerLink

Morphological development of the vertebrate eye begins with the formation of an outpouching of the diencephalon called the optic vesicle (Fig. 1 A). The optic vesicle subsequently contacts the head ectoderm (Fig. 1 B) and signals the induction of a pseudostratified thickening of the ectoderm called the lens placode (Fig. 1 C).

Vertebrate eye development as modeled in *Drosophila* ...

The loss-of-function *ptch2 tc294z* mutant displays coloboma, a structural defect in the eye caused by aberrant development of the optic fissure (Lee et al., 2008). Although the morphological features of the phenotype have been described in detail at stages after optic cup morphogenesis, the precise timing of the underlying cellular defects is unknown.

Hedgehog signaling regulates cell motility ... - Development

Vertebrates have two separate sets of eyes, the lateral visual eyes and the dorso-medial pineal and parietal "eyes" that play a role in the detection of ambient light and, in some groups, convey a fast response to predator shadows (9 ↓ -11). Previous studies have revealed a small set of transcription factors that specify photoreceptor cells in both retina and pineal gland.

Molecular analysis of the amphioxus frontal eye unravels ...

Our results identify novel morphogenetic events shaping the retina, RPE and lens, with important

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implications for their specification, and include studies of OCM in the chick embryo that indicate that this process is conserved across vertebrates.

A complex choreography of cell movements ... - Development

Frogs and toads (Amphibia: Anura) display diverse ecologies and behaviours, which are often correlated with visual capacity in other vertebrates. Additionally, anurans exhibit a broad range of relative eye sizes, which have not previously been linked to ecological factors in this group. We measured ...

Eye size and investment in frogs and toads correlate with ...

As September turns to October, meteorologists' attention will shift from the eastern Atlantic to the western Caribbean as we watch for possible tropical development.

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