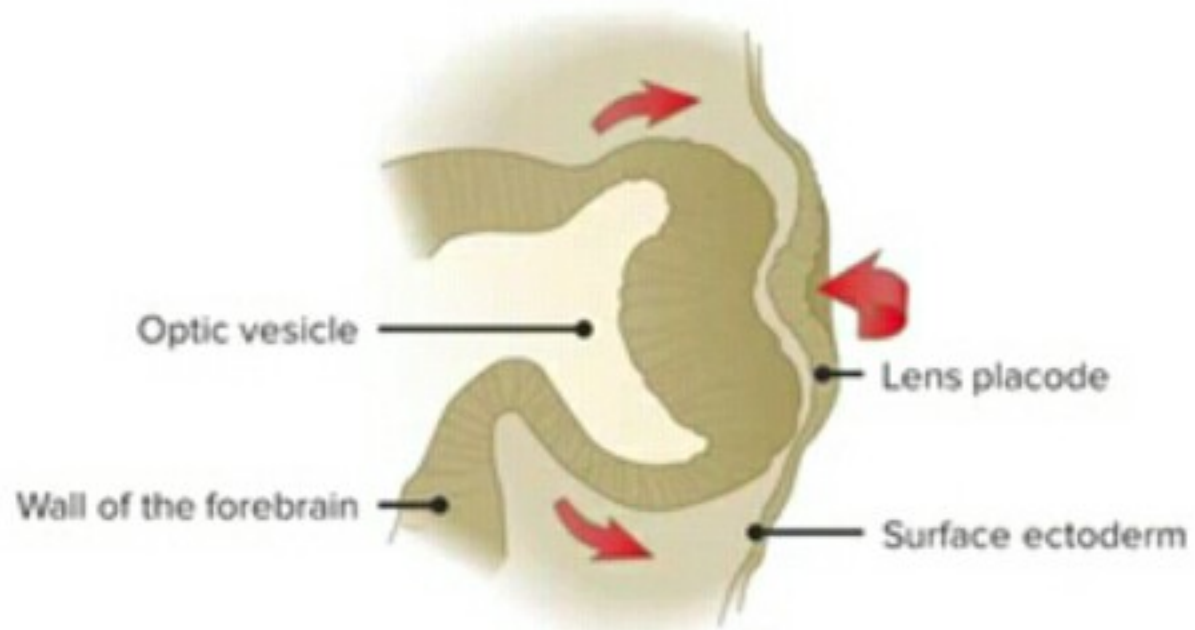


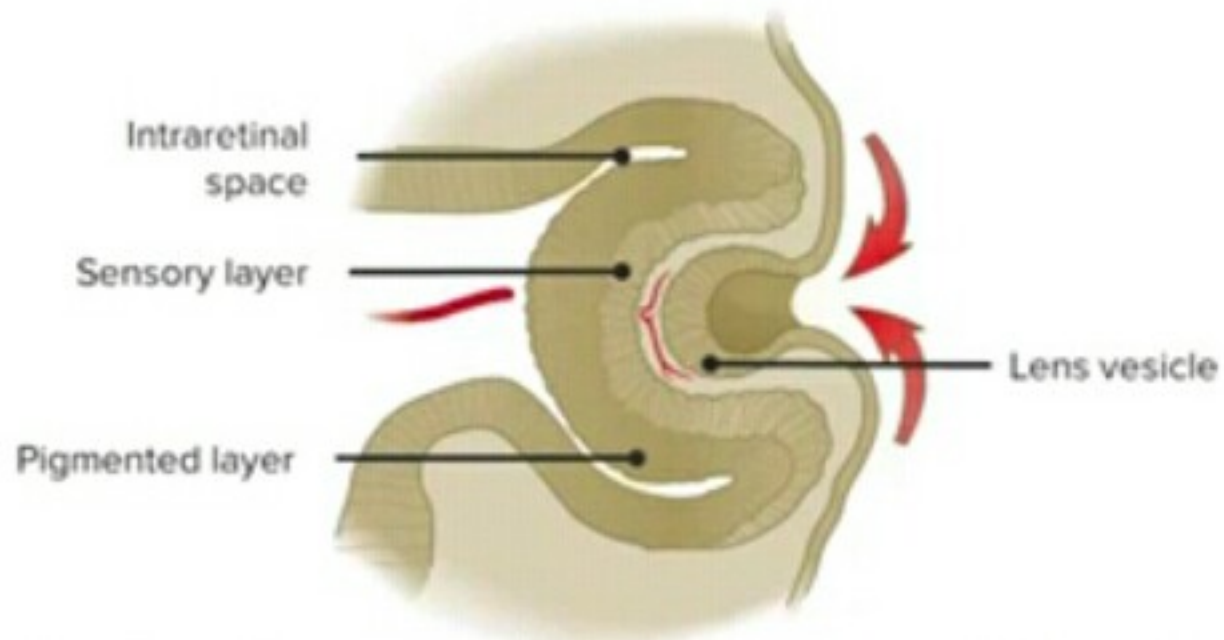
Extension of the Optic Vesicle and Induction of Lens



As an optic vesicle approaches the overlying ectoderm it induces the formation of a **lens placode**.



Extension of the Optic Vesicle and Induction of Lens

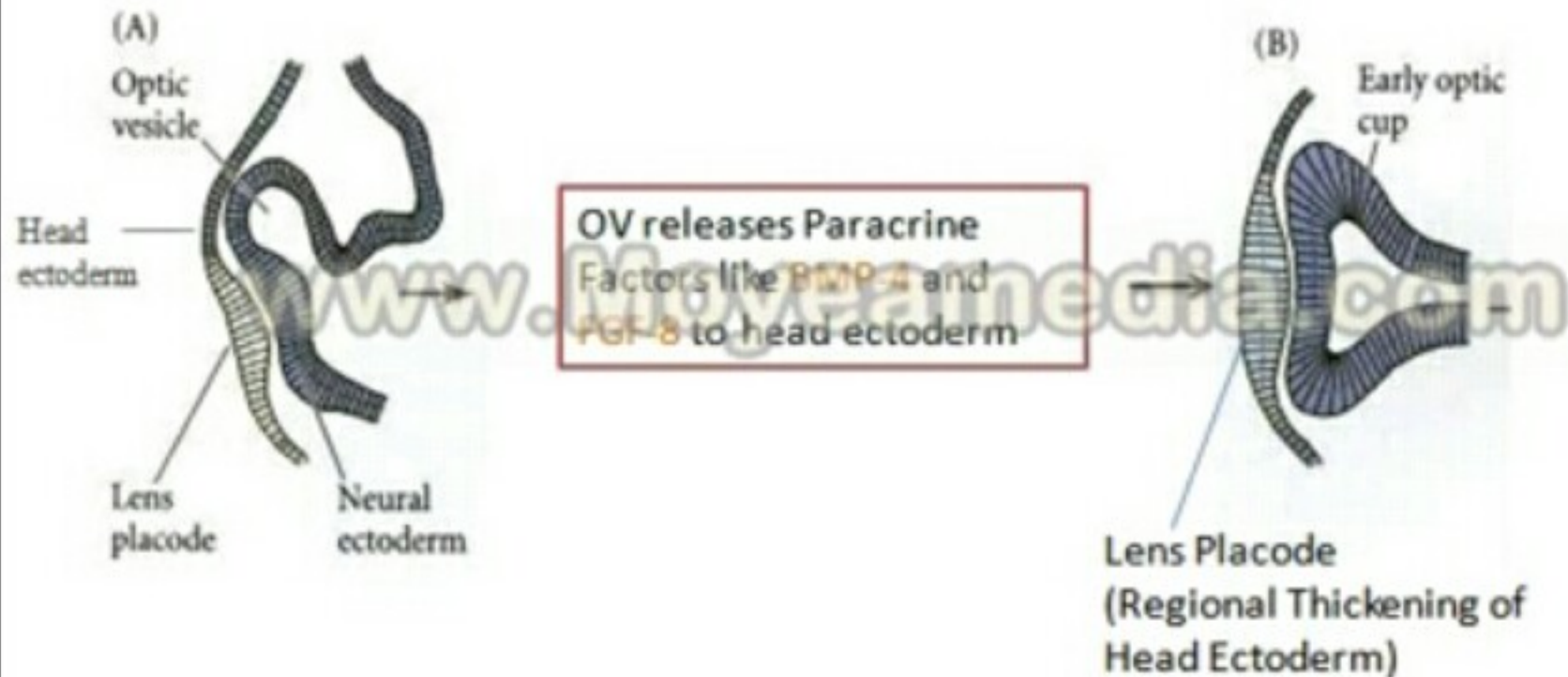


The vesicle then cavitates to create an **optic cup** that surrounds the placode, which invaginates to form the **lens vesicle**.

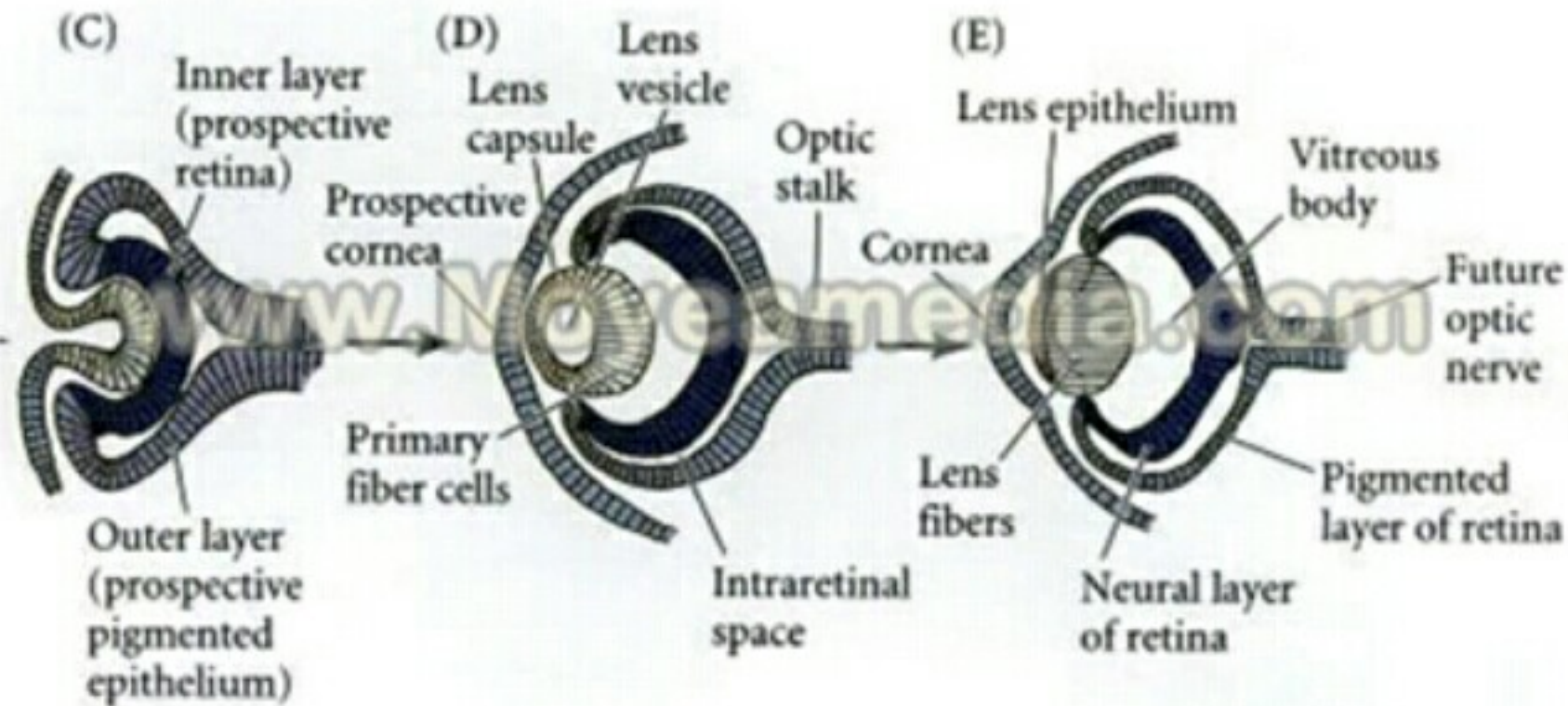


OV formed due to the **EVAGINATION** of cells that expressed **PAX6**, **SIX-3** and **RX-1**

Lens Placode (Head ectodermal cells) expressing **PAX-6**



Interaction between OV and LP



ImageSource: Gilbert SF. Developmental Biology: 6th edition. Sunderland (MA): Sinauer Associates; 2000. Development of the Vertebrate Eye. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK10024/>