



A Contribution to the Embryology and Phylogeny of the Pycnogonids.

Thomas Hunt Morgan

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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1891. Excerpt: ... PART III.--THE STRUCTURE AND DEVELOPMENT OF THE EYES OF PYCNOGONIDS. In reaching a decision as to the systematic position of the Pycnogonids, I hoped to test the conclusions I had reached from a study of the embryology by taking another point of view. Fortunately a most interesting field opened in a consideration of the structure and development of the eyes. While enjoying the opportunities of the Marine Biological Laboratory I was enabled to procure and study an abundance of fresh material. The advantages of using such material is now so well known as to need only mention, and I am certain that I could not have obtained nearly so satisfactory results from preserved animals. The results obtained from a study of the eyes have added, I believe, very much to the solution of the problem I had before me. Hoek and Dohrn give the only figures of the Pycnogonid eyes that I have found, but the results are confessedly incomplete, due in the one case to poor preservation of material, and in the other to the difficulties of technique. Neither of these accounts will be of any service to us in our study of the eyes, and may be dismissed here. The subject will be treated in the following order: 1. The Anatomy of the Adult Eyes. 2. The Histology of the Adult Eyes. 3. The Development of the Eyes. 4. Comparison with the Arachnid Simple Eyes. 5. Inversion of the Pycnogonid Eye. 6. General Considerations of the Arachnid Eye. 1. The Anatomy Of The Adult Eyes. The Sea-Spiders have in all four simple eyes, situated in the middle of the first (compound) segment of the body, on a raised, cupola-like projection. In some of the species the eyes are certainly degenerate, but in none are all traces of the eyes lost. The position of the eyes on the body can be best shown by reference ...

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