

## Chordate Study Guide

### I. Defining Characteristics of Chordates:

- **Notochord:** A flexible rod that supports the body.
- **Dorsal Hollow Nerve Cord:** A tube of nerve tissue that runs along the back.
- **Pharyngeal Slits:** Openings in the throat region.
- **Post-anal Tail:** A tail that extends beyond the anus.
- **Endostyle (or Thyroid Gland):** Secretes mucus and hormones.

### II. Major Groups of Chordates:

- **A. Nonvertebrate Chordates:**
  - 1. **Tunicates (Urochordata):** Marine animals; larvae have all chordate features, adults mostly sessile filter feeders.
  - 2. **Lancelets (Cephalochordate):** Fish-shaped; burrow in sand; retain all chordate features throughout life.
- **B. Vertebrates (Cranialata):**
  - 1. **Characteristics of Vertebrates:**
    - **Vertebral Column:** Replaces the notochord in most adults.
    - **Cranium:** A bony or cartilaginous skull that protects the brain.
    - **Endoskeleton:** Internal skeleton made of bone or cartilage.
    - **Highly developed organs:** Including a well-developed brain, circulatory system, and sensory organs.
  - 2. **Major Groups of Vertebrates:**
    - a) **Fishes:**
      - **Agnatha (Jawless Fishes):** Hagfish and lampreys; lack jaws and paired fins.
      - **Chondrichthyes (Cartilaginous Fishes):** Sharks, rays, and skates; have jaws, paired fins, and a skeleton made of cartilage.
      - **Osteichthyes (Bony Fishes):** Most diverse group of fishes; have jaws, paired fins, and a skeleton made of bone.

# Chordates Study Guide

**Saul Wischnitzer**



## **Chordates Study Guide:**

*Life Study Guide* David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer

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method 1 set node env for all node apps windows set node env production linux or other unix based system export node env production this sets node env for current bash session thus any apps started after this statement will have node env set to production method 2 set node env for current app node env production node app js

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imaging and beam steering using 3 microlens arrays mla is demonstrated

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web lenslet arrays are modeled using the user defined surface basically the ray trace determines which segment of the array is struck then uses the local lens curvature to determine the refraction the sample source code and dll are provided as us array c and us array dll respectively

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web zemax 1 introduction microlens arrays have been applied in many electro optical and micro optical systems such as flexible light field smart phones<sup>1</sup> solar concentrators<sup>2</sup> data storage<sup>3</sup> and integral imaging 3d displays<sup>4</sup> etc these microlens arrays are typically composed of microlens cells arranged in a deterministic pattern<sup>5</sup> the

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web i set up a hybrid model including sc source and focusing lens and nsc microlens array lenslet array 1 to generate a uniform line transversely perpendicular to beam propagation in a certain distance now i want to optimize the microlens toric and aspheric coefficient parameters to achieve the best line uniformity and smallest line width

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web mar 31 2021 zemax llc thanks dr reinhard voelkel of suss microoptics sa for the experimental data used in this article setting up the initial design this article describes a commercial fiber coupler which couples two pieces of corning smf 28e fiber using suss microoptics fc q 250 microlens arrays the manufacturers data is as follows

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web oct 16 2021 help me please to model the lens array in sequential mode i mean some lens no microlens in the same plane on the circle radius icon best answer by ray the sequential dll is quite easy to modify non sequential are more complex there are more array types available in this forum post community zemax