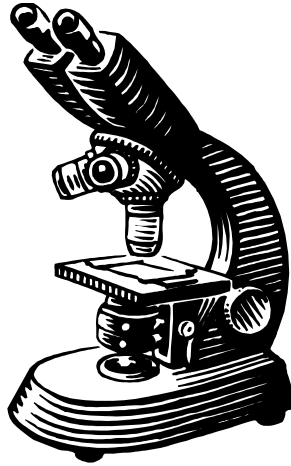


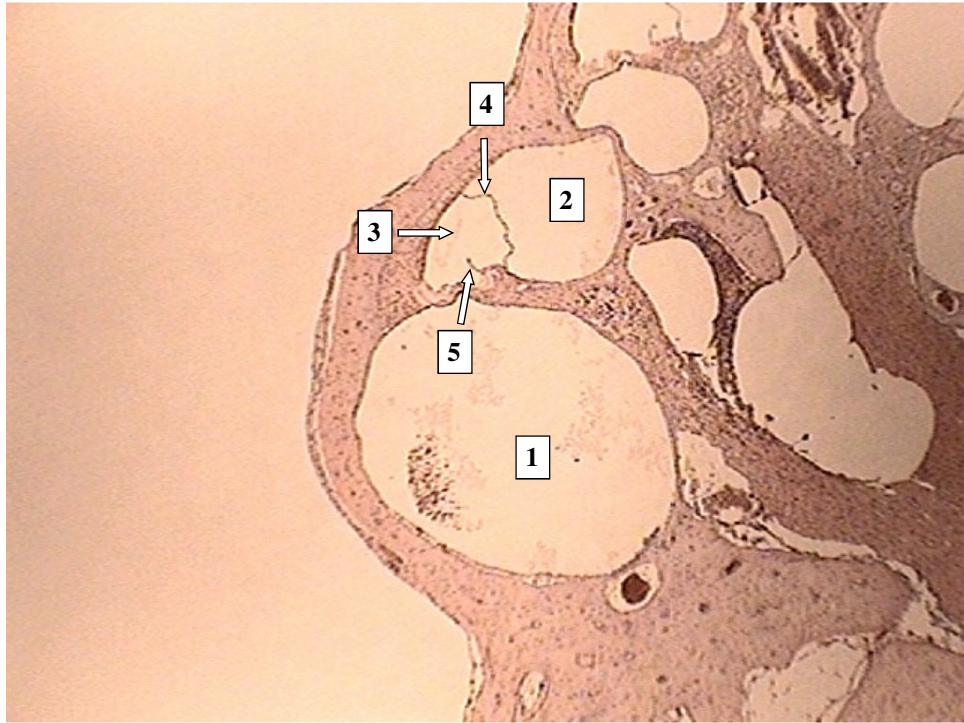
# **Bio& 241 A&P 1**

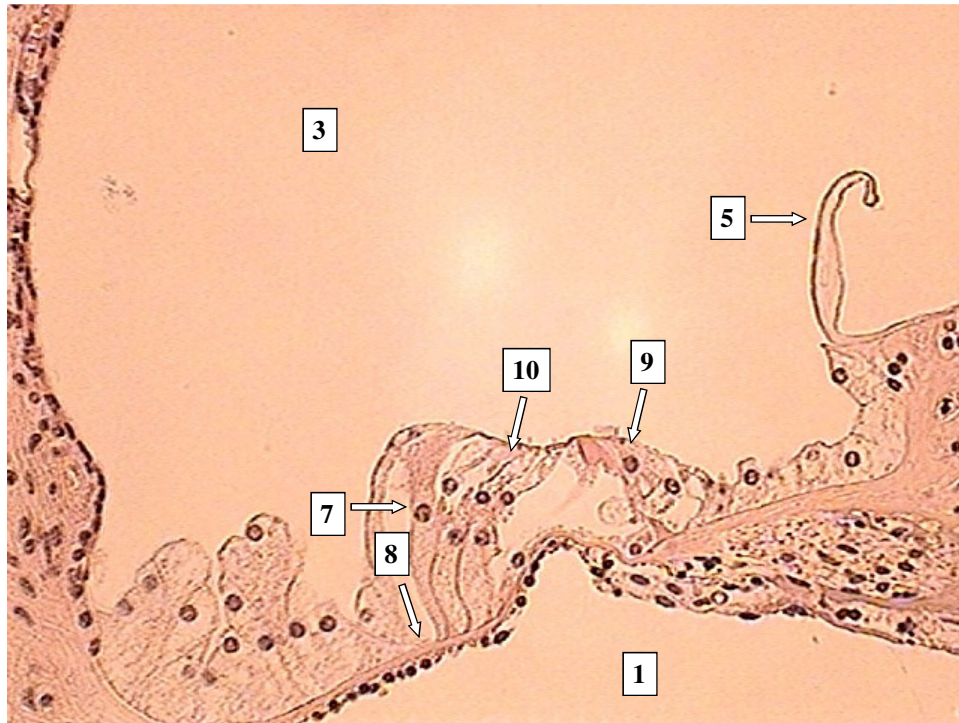
## **Unit 4 /Labs 4 and 5**



### **Histology Slides for Special Senses**

- **Slides are presented in order of magnification if different view are presented.**
- **As you view the following slides make sure you can accomplish these goals:**
  - 1. Can you identify the tissue observable on the slides?**
  - 2. Can you identify the specific structures or layers indicated by the numbered arrows or brackets?**
- **At the end of a sequence you will find the answers to the above for each slide.**





## Answers to Slides 2 through 4

Slide 2: X-section through the Cochlea, scanning power.

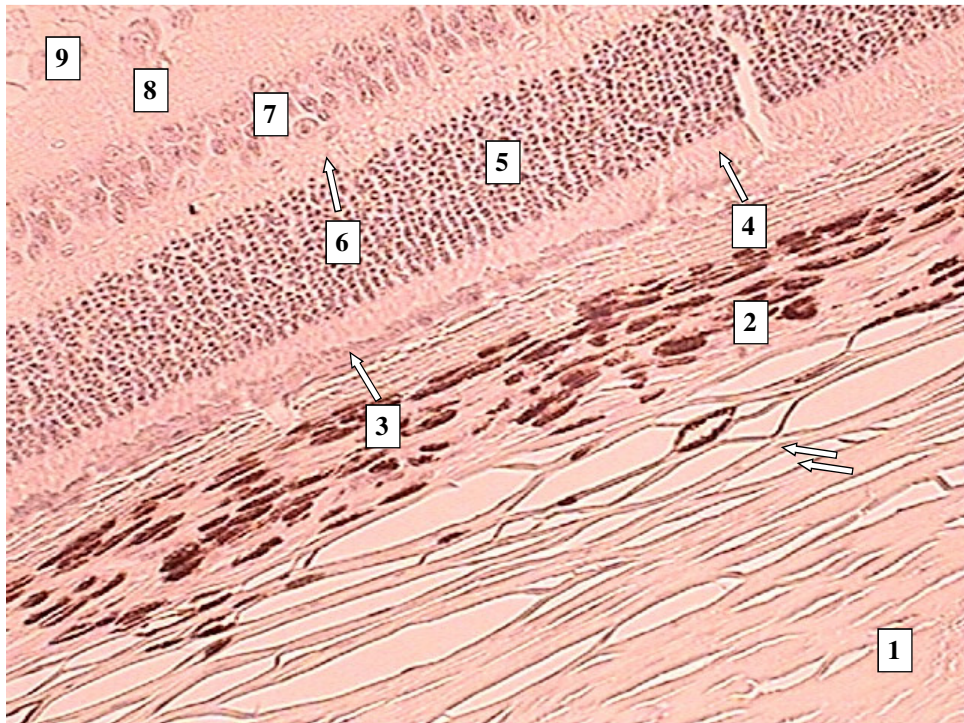
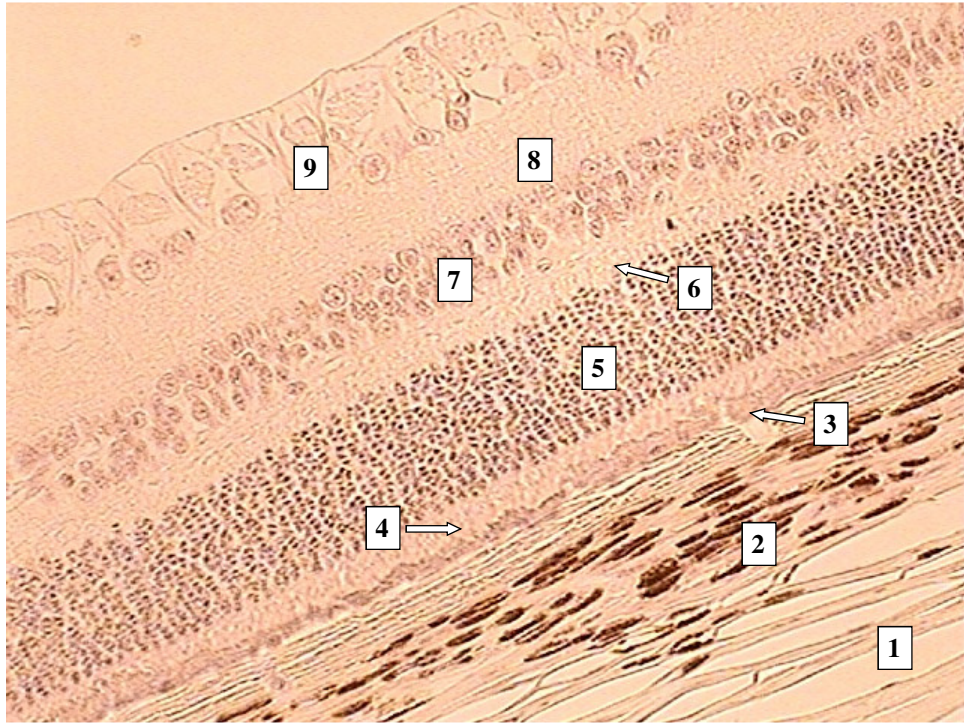
Slide 3: X-section through the Cochlea, low power.

Slide 4: X-section through the Cochlea, high power.

Answers to the numbers:

1. Scala tympani
2. Scala vestibuli
3. Cochlear duct
4. Vestibular membrane
5. Tectorial membrane
6. Spiral organ or Organ of Corti
7. Supportive cells to the outer hair cells
8. Basilar membrane
9. Inner hair cells (note single nucleus)
10. Outer hair cells (note three nuclei in a row)





## **Answers to Slides 6 and 7**

**Slide 6: X-section through the Retina, high power.**

**Slide 7: X-section through the Retina, high power.**

**Answers to the numbers:**

- 1. Sclera (broken up)**
- 2. Choroid coat**
- 3. Pigmented epithelium**
- 4. Outer segment of rods and cones**
- 5. Nuclei layer of rods and cones**
- 6. Outer synaptic layer**
- 7. Nuclei layer of bipolar neurons**
- 8. Inner synaptic layer**
- 9. Ganglion cell layer**