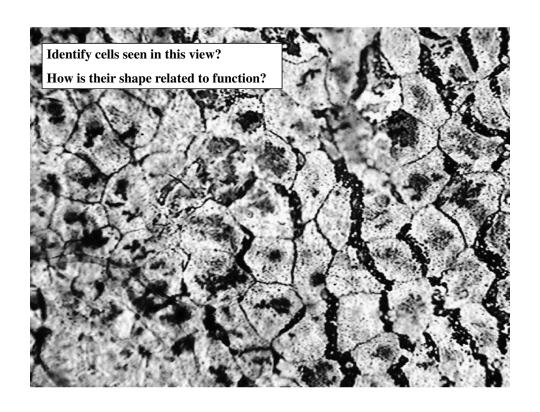
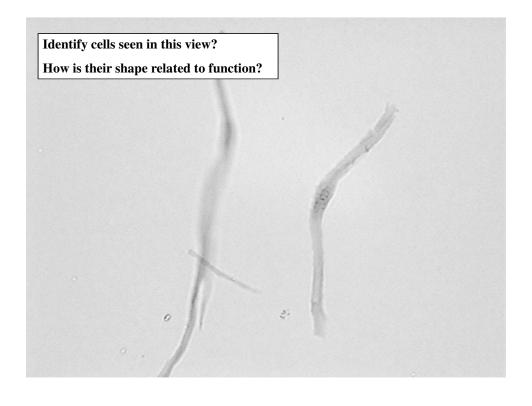
Bio & 241 A&P Unit 1Lab 2

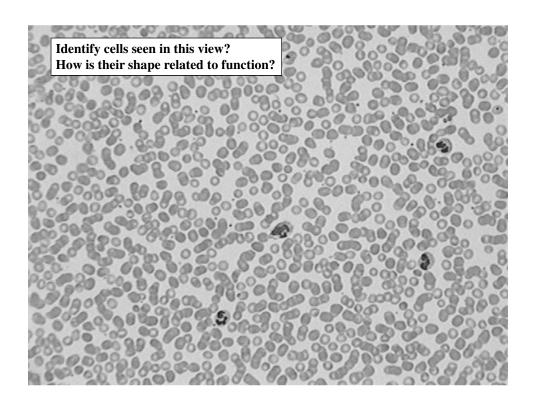


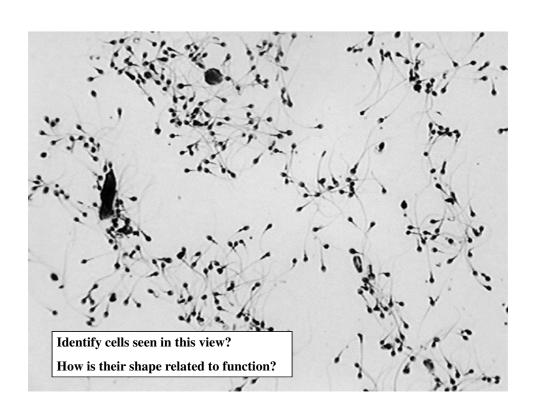
Histology Slides for the Epithelial, Connective, and Integumentary Tissues

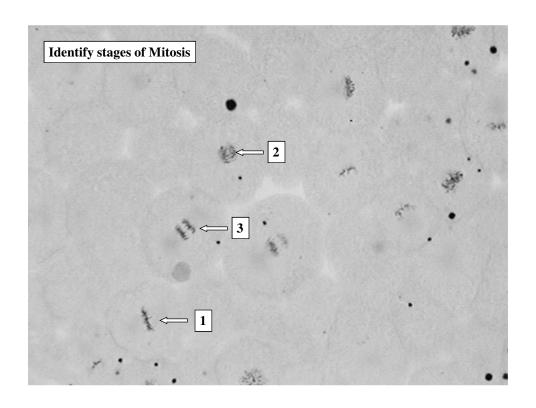
- Slides are presented in order of magnification
- As you view the following slides make sure you can accomplish these goals:
- 1. Can you identify the tissue layers observable on the slides?
- 2. Can you identify the specific structures or layers indicated by the numbered arrows or brackets?
- At the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

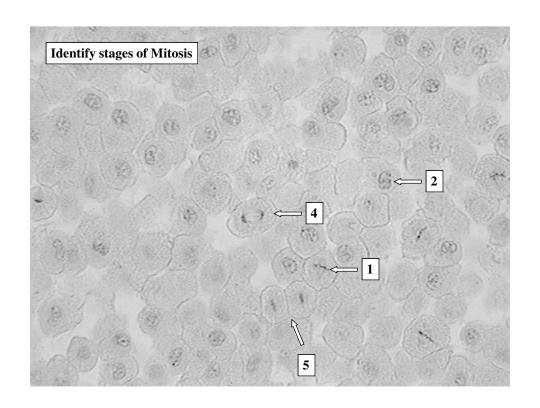


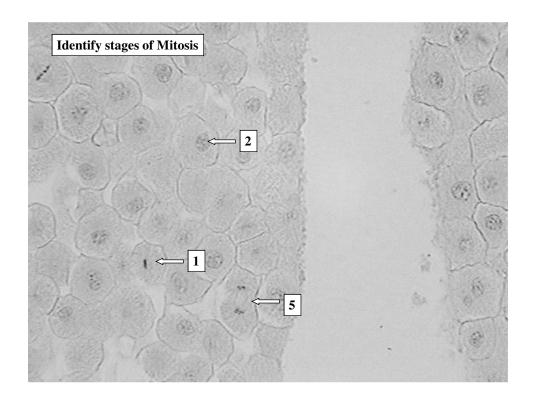












Answers to Slides 3-9

- Slide 3: Surface view of simple Squamous epithelial

 Cells designed to cover surfaces, have large surface

 area on surface plane and are thin in side view.
- Slide 4: Smooth muscle cells

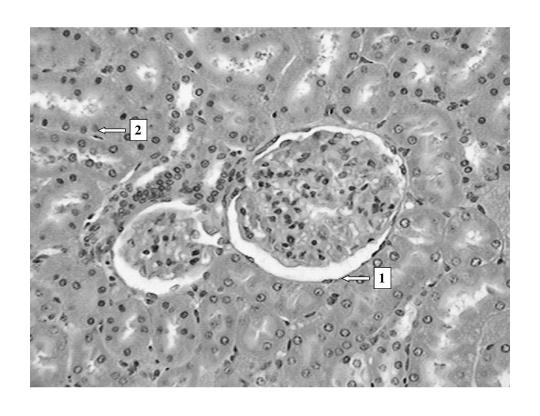
 Cell spindle-shaped to contract and elongate on a single plane
- Slide 5: Red blood cells with a few white blood cells

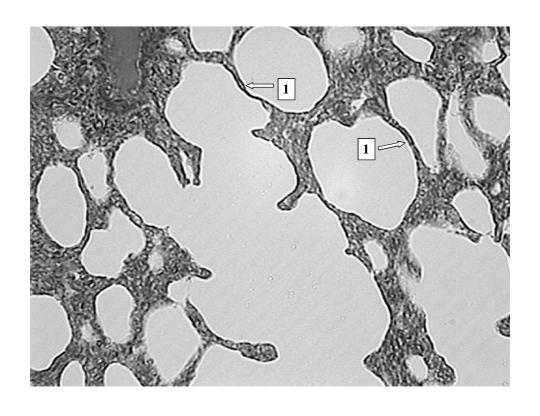
 Biconcave to increase surface area to volume for diffusion and non-nucleated to increase hemoglobin capacity.
- Slide 6: Human sperm cells

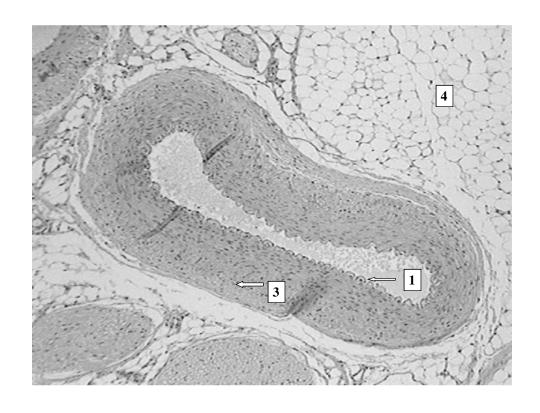
 Small flagellated cells for swimming. Small size to increase the number of cells that can be placed in a small amount of solution

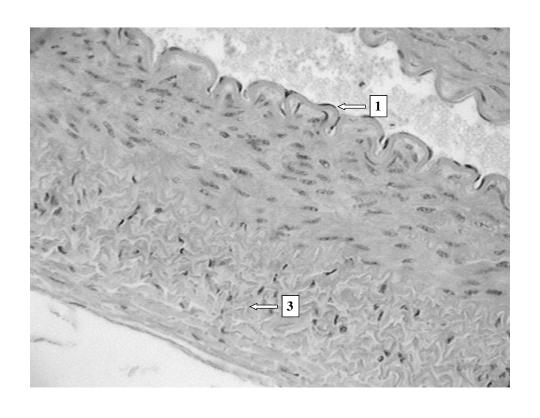
Slide 7-9: Mitosis of a fish egg

- 1. Metaphase
- 4. Early telophase
- 2. Prophase
- 5. Late telophase
- 3. Anaphase







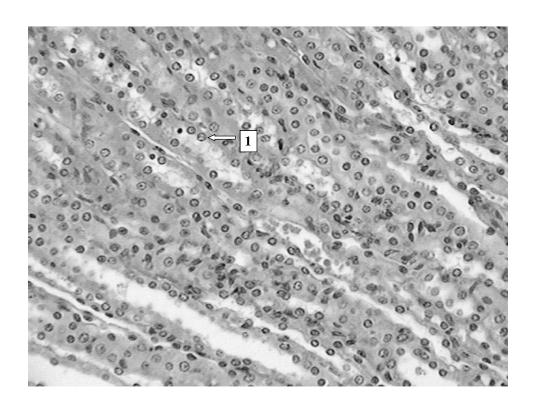


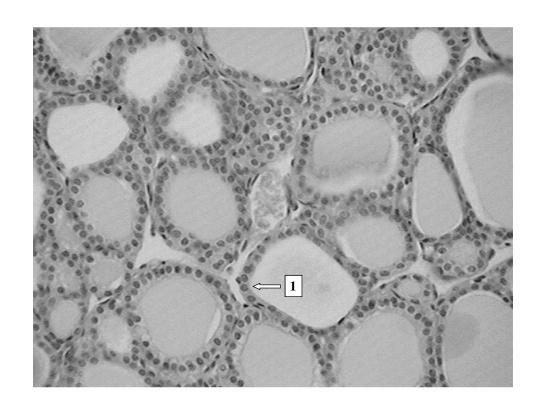
Answers to Slides 11-14

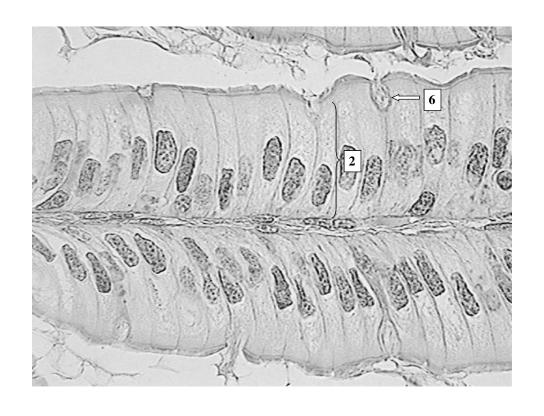
Slide 11: Kidney showing a renal corpuscle

Slide 12: View of lung tissue Slide 13: Artery low power Slide 14: Artery high power

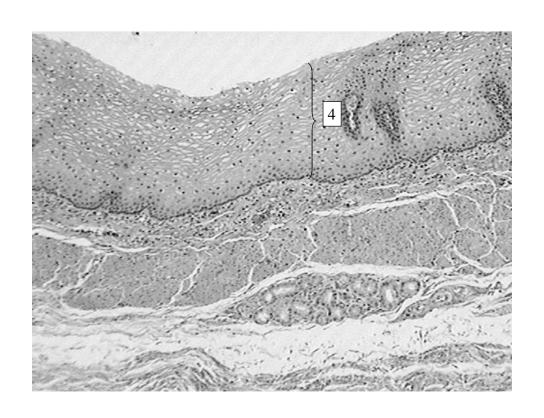
- 1. Side view of simple squamous tissue
- 2. View of simple cubiodal
- 3. Dense irregular Connective Tissue
- 4. Adipose tissue

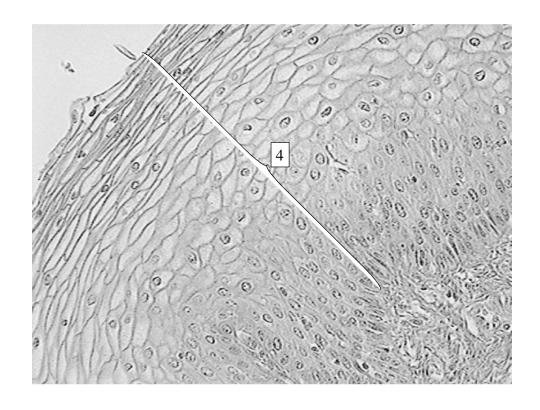


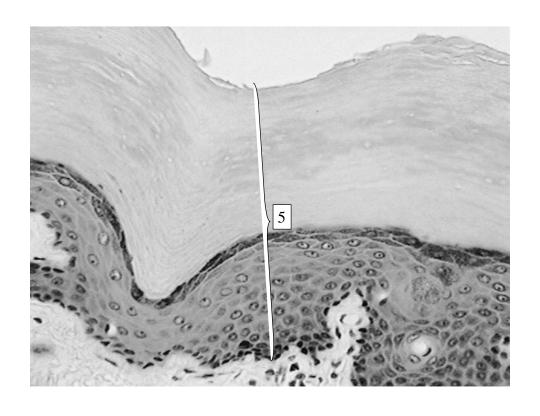












Answers to Slides 16-22

- Slide 16: View showing kidney tubules
- Slide 17: View of thyroid gland
- Slide 18: View of small intestine villus
- Slide 19: X-section through a bronchiole
- Slide 20: Esophageal epithelium
- Slide 21: Vaginal epithelium
- Slide 22: Epidermis of non-hairy skin
 - 1. View of simple cuboidal epithelium
 - 2. Simple columnar epithelium
 - 3. Pseudostratified columnar epithelium
 - 4. Nonkeratinized stratified squamous epithelium
 - 5. Keratinized stratified squamous epithelium
 - 6. Goblet Cell with a mucous excretory vesicle