

Histology Lab exam 1

Tissue preparation steps

1. Tissue removal and sampling
2. Fixation
3. Dehydration
4. Clearing
5. Embedding (For higher resolution, use plastic)
6. Sectioning on a microtome with steel or glass knives
7. Mounting of tissue on a glass slide
8. Staining (Using dyes for LM and electron-opaque stains in TEM)

Identification of staining

Hematoxylin and Eosin (H&E):

- Most commonly used stain for LM
- Two separate stains used sequentially
- In fixed tissue, H&E stains structures according to their net charge at the pH of the staining solution

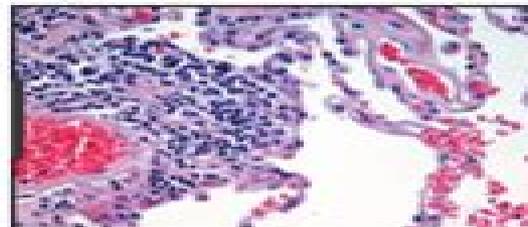
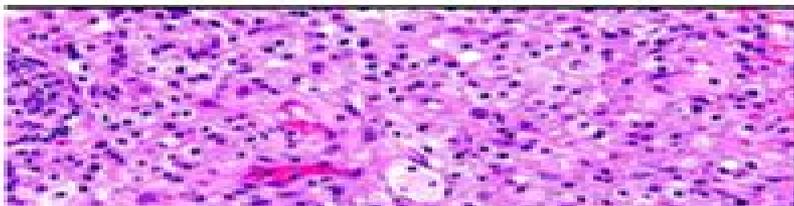
HEMATOXYLIN:

- Positively Charged (+) Stain
- Stains negatively charged (basophilic) tissue components
- Stains them a blue color

EOSIN:

- Negatively charged (-) stain
- Stains positively charged (acidophilic) tissue components
- Stains them pink to red

Examples:



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