Extraction of Nucleic Acids

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DNA Extraction

- Exposure of DNA by removing membrane lipids with detergents
- Removal of proteins by protease digestion and subsequent precipitation by phenol or other agents
- Precipitation of DNA with ethanol or isopropanol
Sources of DNA

- Blood
- Semen
- Saliva
- Urine
- Hair
- Teeth
- Bone
- Tissue
Choice of Method

- Phenol Chloroform method
- Commercial kits
- Chelex method
DNA Concentration

- Optical density (OD\textsuperscript{260})
- Gel Electrophoresis
- Fluorometry
- Real Time PCR
Extraction of RNA

- Cellular RNA
  - Trizol Method
- Viral RNA
  - Extraction by Silica Columns