Southern (DNA) and Northern (RNA) Blotting

Identify the presence of a particular DNA or RNA sequence

**Gel Electrophoresis:**
- separate fragments of DNA or RNA on basis of size

**Radiolabelled Probe**
- Information on DNA or RNA size and identity

**Blotting:**
- transfer the DNA from the gel to filter paper or membrane

**Probing:**
- Short sequence of radiolabelled ssDNA hybridizes to complementary sequence
Information on DNA or RNA presence/absence size and identity

Visualization: radiolabel burns image in X-ray film

Molecular Genetics: Methods

- DNA extraction
- PCR amplification
- Gel electrophoresis
- DNA sequencing
- Hybridization

January 25th Lab Tour WSC 333