# Western Southern Northern Blotting

## Which is what?

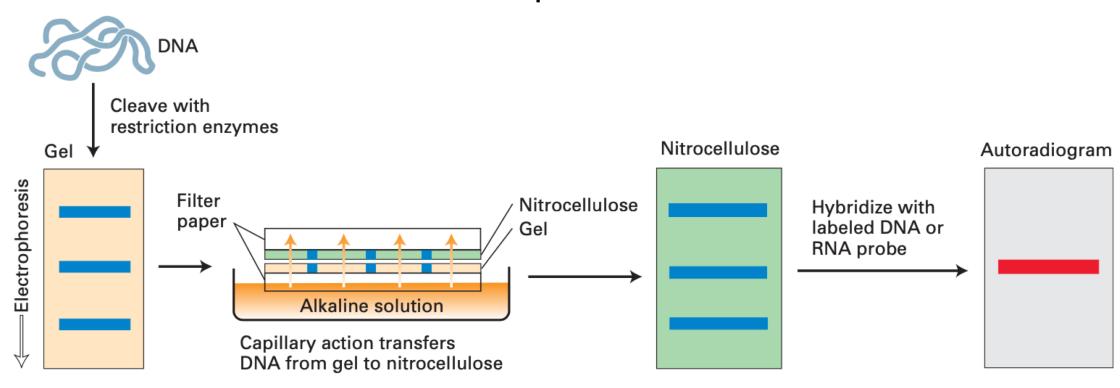
 Transfer of proteins to a membrane is referred to as Western transfer.

 Transfer of DNA bands to a membrane is referred to as Southern transfer.

 Transfer of RNA bands to a membrane is referred to as Northern transfer.

### Identification methods

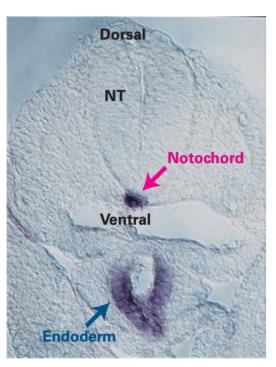
Hybridization probing.
 detects cloned DNA with probes



# in-situ hybridization



A whole mouse embryo at about 10 days of development probed for *Sonic hedgehog* mRNA. The stain marks the notochord (red arrow), a rod of mesoderm running along the future spinal cord.



A cross section of a mouse embryo.



A whole *Drosophila* embryo probed for an mRNA produced during trachea development. The repeating pattern of body segments is visible. Anterior (head) is up; ventral is to the left.

# Detectation de gel electrophoresis

 Electrophoresis is used to separate and analyze proteins based on their size and charge.

SDS PAGE

SDS; DTT or ß-ME

native PAGE

native protein