

## Northern blotting

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## Electrophoresis

- We can separate DNA and RNA molecules by size using agarose gel electrophoresis

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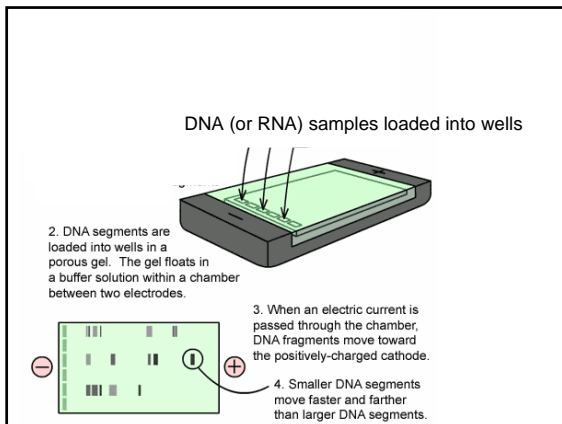
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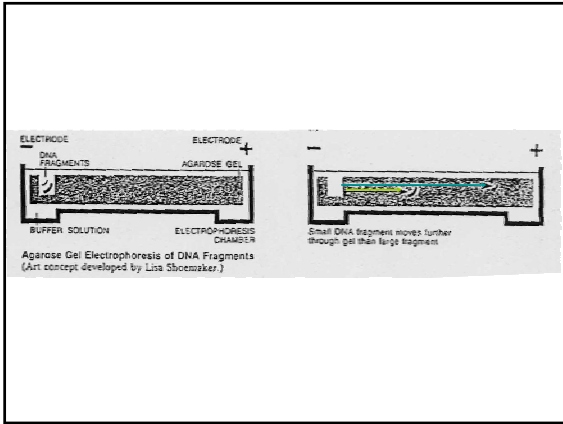
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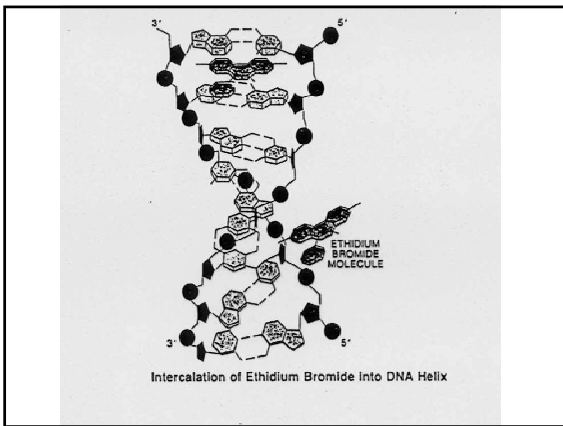
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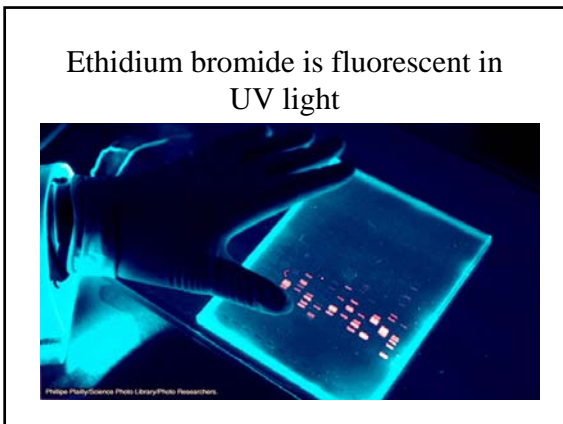
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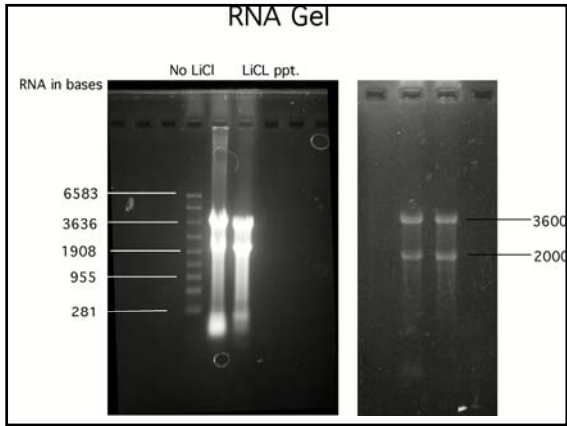
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## Northern, Southern, Western



Ed Southern:

Attractive fellow from Oxford

In the 1970s Ed Southern of Oxford University invented a revolutionary DNA blotting technique.

The Southern Blot allows the visualization of one DNA fragment from a whole genome DNA extract.

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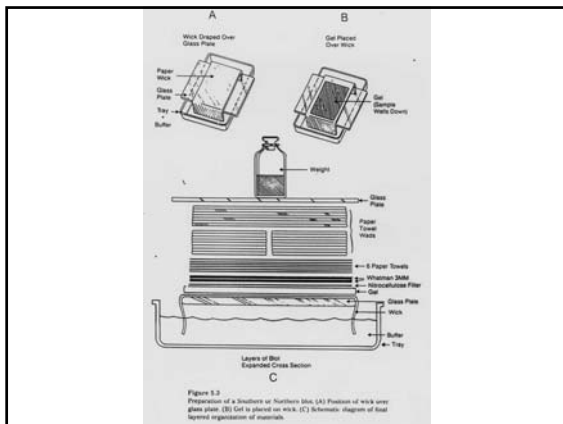
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## Northern and Western

- People then applied the same technique to RNA.
- They called it a “Northern blot”. Funny, eh?
- Then other people applied it to protein, and imaginatively called it a “Western blot”

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