**The Sanger sequencing reaction.**

Single stranded DNA is amplified in the presence of fluorescently labelled ddNTPsthat

serve to terminate the reaction and label all the fragments of DNA

produced. The fragments of DNA are then separated via polyacrylamidegel

electrophoresis and the sequence read using a laser beam and computer.

**Two strategies for large-scale sequencing**

1 Clone by Clone

2 Whole Genome Shot-gun