## **DNA** Fingerprinting

- It is a technique used to identify people using sample of their DNA.
- Dr. Allec John Jeffreys in 1984/1985 invented this technique.

## Steps of DNA Fingerprinting

- 1. Sample collection.
- 2. PCR.
- 3. Restriction digestion.
- 4. Gel electrophoresis.
- 5. Transfer of DNA to membrane.
- 6. Addition of probes.
- 7. Detection.

## **Application**

- It is the basis of paternity testing in case of disputes.
- Useful as identification tool in forensic applications.
- Helps in diagnosis of inherited disorder.
- Used to determine population.
- To know genetic diversity in evolutionary biology.



- In criminal investigations, the DNA fingerprint of a suspect's blood or other body material is compared to that of the evidence from the crime scene to see how closely they match. The technique can also be used to establish paternity.
- 2. Cataloging and exploring the livestock
- Screening of germplasm.















