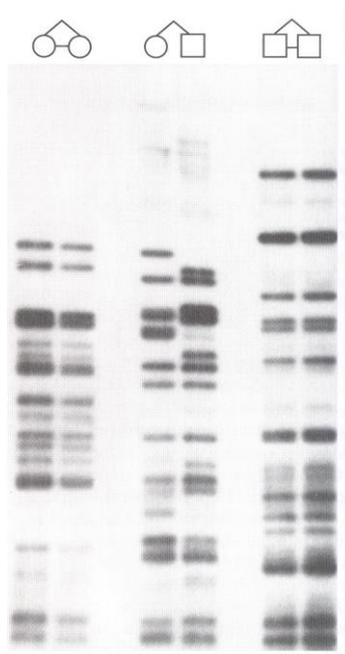


DNA FINGERPRINTING

Terms to be familiar with before you start to analyze the figure

*Southern blotting * minisatellites*

The figure



The figure shows the DNA fingerprint analysis of three pairs of twins using Southern blotting.

Answer the following questions:

1. Explain the principle of DNA fingerprinting! What kind of probe was used for hybridization?
2. Why are there many bands in all DNA samples?
3. What is the difference between bands at different positions?
4. Why are the patterns of bands similar for twins 1?
5. Why are the patterns of bands different for twins 2?
6. What is the name of this kind of DNA profiling?

The source of the figure

Nussbaum, R., R.R. Mc Innes, H.F. Willard (2007) Thompson & Thompson Genetics in Medicine. Saunders, Fig. 6-7.

Supported by a grant from the European Union (TÁMOP-4.1.1.C-13/1/KONV-2014-0001).