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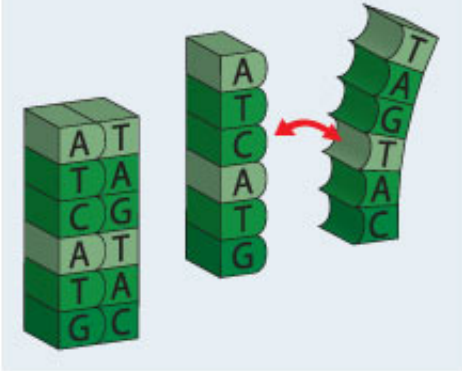
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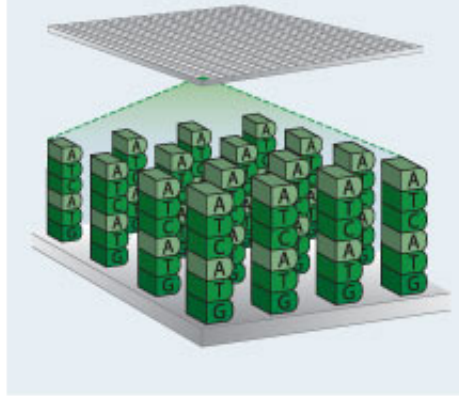
## Express yourself

How DNA microarrays work

1. Microarrays rely on a fundamental property of nucleic acids, the building blocks or "bases" that make up DNA and RNA strands. Adenine (A) bases stick to thymine (T) or uracil (U), and cytosine (C) bases stick to guanine (G). Just one incorrect base can prevent two strands from binding.



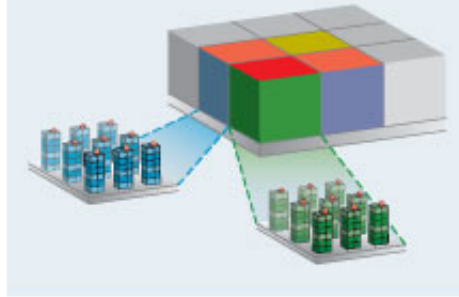
2. A microarray can contain more than 1m squares. Each is about a fifth of the width of a human hair and anchors many copies of a particular sequence of single-stranded DNA, corresponding to a particular gene.



3. RNA fragments extracted from a cell and labelled with different fluorescent dyes are washed over the microarray and stick to DNA strands with the complementary sequence.



4. The dyes are illuminated using fluorescent light. It is then possible to show which RNA fragments stuck in which microarray squares – and hence which genes were active in the cell from which the RNA was taken.



Source: *The Economist*; Affymetrix



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