

Pesticide resistance in rats

- *Pesticides* are chemicals that kill animals that are regarded as pests
- Mutations can give rise to a rat resistant to the particular pesticide used
 - They'll thrive and reproduce
 - These rats will be very favourable in a pesticide-rich environment
 - To kill the rats a new pesticide must be used

Antibiotic resistance in bacteria

- *Antibiotics* kill or inhibit the growth of bacteria
- Overuse of antibiotics can lead to the production of resistant strains of bacteria
- Bacteria reproduce asexually but mutations still happen to their DNA and therefore they can become resistant
- Some bacteria have plasmids
 - *Plasmid* is a small ring of DNA bearing a copy of some genes
- The plasmid can be transferred to other bacteria giving them some of the new genetic code
 - Antibiotic resistance can spread faster

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