

Discussion

Modern humans go through natural selection. Evolution changes living things as they can adapt and survive in their environments. If an organism can't adapt, it dies.

There is a correlation between what traits a living thing has or survives. Living things mutate from their common ancestors and receive these characteristics. Humans received certain traits from their ancestors as they still continue to do so today.

The patient who received the bacterial infection grew or survived like all other living things. The patient died in 1941 because no antibiotic was found for the infection. The patient couldn't have antibodies for the infection because she didn't have time to adapt to the bacteria. Since the *Staphylococcus aureus* count was low at the time, nothing was searched for to fight the infection.

In 1928 an antibiotic called penicillin was discovered. This is one reason why the patient lived in 1941. The penicillin fought the bacteria and killed it. Another reason why the patient lived is because the *Staphylococcus aureus* count was still small.

The patient received doses of penicillin in 1941, but died. This was because the amount of *Staphylococcus aureus* increased greatly. The bacteria adapted to the penicillin and therefore it could grow and survive. This shows how natural selection works.