Early Biotechnology

Cultivation of crops & domestic animals, wine & cheese produced.

Robert Hooke describes the first cell.

Zacharias Janssen discovers first microscope.

Anton von Leeuwenhoek observes bacteria & protozoa.

Edward Jenner uses cowpox to vaccinate against smallpox.


Stanley Cohen & Herbert Boyer cut and paste DNA from 2 different organisms - Recombinant DNA Science.

FDA approves genetically engineered insulin.

First use of the word "Biotechnology".

FDA approves Hepatitis B vaccine.

FDA approves genetically engineered crop (FLA VR SA VR tomato).

FDA approves vaccine against cervical cancer.

FDA approves genetically modified pet (Glofish).