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Genetic engineering, also called genetic modification or genetic manipulation, is the direct manipulation of an organism's genes using biotechnology. It is a set of technologies used to change the genetic makeup of cells, including the transfer of genes within and across species boundaries to produce improved or novel organisms. New DNA is obtained by either isolating and copying the genetic ...

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A genetically modified organism (GMO) is any organism whose genetic material has been altered using genetic engineering techniques. The exact definition of a genetically modified organism and what constitutes genetic engineering varies, with the most common being an organism altered in a way that "does not occur naturally by mating and/or natural recombination".

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V.N. Uversky, in Brenner's Encyclopedia of Genetics (Second Edition), 2013. Chemical Extension of the Genetic Code. Protein synthesis occurs during a process called 'translation'. Posttranslational modification (PTM) of proteins, being one of the later stages in protein biosynthesis, refers to the reversible or irreversible chemical changes proteins may undergo after translation.

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The Asilomar meeting in 1973 of leading virologists, geneticists, biochemists and microbiologists addressed the growing concerns about gene - manipulation techniques. Asilomar II in 1975 got unanimous support for ranking the biohazard risks of genetic recombination.

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Biotechnology is the use of artificial methods to modify the genetic material of living organisms or cells to produce novel compounds or to perform new functions. Biotechnology has been used for improving livestock and crops since the beginning of agriculture through selective breeding. Since the discovery of the structure of DNA in 1953, and particularly since the development of tools and ...

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Viruses (ISSN 1999-4915; CODEN: VIRUBR) is a peer-reviewed, open access journal of virology, published monthly online by MDPI. The American Society for Virology (ASV), the Spanish Society for Virology (SEV), the Canadian Society for Virology (CSV), the Italian Society for Virology (SIV-ISV), the Australasian Virology Society (AVS) and more societies are affiliated with Viruses and their members ...

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1. Brief History of the Human Genome Project. HGP at the start. The HGP began officially in October 1990, but its origins go back earlier. In the mid-1980s, three scientists independently came up with the idea of sequencing the entire human genome: Robert Sinsheimer, then chancellor of University of California at Santa Cruz, as a way to spend \$30 million donated to his institution to build a ...

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In 1997 the gene affected by this mutation became the first mammalian circadian clock gene to be cloned (King and Takahashi 2000). Like the mutants of the Per and Frq genes, the altered Clock gene both affected the free-running rhythm period (i.e., lengthened the period) and caused a loss of persistence of circadian rhythms under constant ...