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genetic engineering is the use of molecular biology technology to modify dna sequence s in genomes using a variety of approaches biology 15 3 applications of genetic engineering give two examples of how genetically modified organisms lead to more environmentally friendly agricultural practices some gm crops do not need pesticides some gm pigs have leaner meat which describes an example of genetic engineering a by replacing a defective gene symptoms of a disease disappear b over time the species developed webbed feet c vitamin a is added to rice to combat blindness d two roses are crossbred to create a rose with a certain shade of pink if you re seeing this message it means we re having trouble loading external resources on our website if you re behind a web filter please make sure that the domains kastatic org and kasandbox org are unblocked genome editing is a technology to pinpoint and rewrite targeted genes within an organism without needing to introduce external genes the technique itself has been around since the 1990s but since 2015 more than 30 clinical trials have been conducted using genome editing technologies and the results have shown the potential to achieve positive patient outcomes gene therapy using crispr technologies for the treatment of a wide range of diseases is expected to continuously advance well into the future

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