

GENE SPLICING ACTIVITY



Let's explore!

GENE SPLICING: Production of human growth hormone.

Objective: Illustrate how production of human growth hormone is done using recombinant DNA technology.

Materials: long bond paper, scissors, clear tape, colored paper, ruler, pencil

Procedure: Read, understand, and follow the procedure below.

1. Prepare the materials.
2. Cut a one-inch-wide strip of the bond paper vertically (longer side). Shape it into a circular loop and secure it with tape. This represents a bacterial **plasmid**.
3. Cut a one-inch-wide strip of the colored paper horizontally. This represents the gene coding for **human growth hormone**.
4. To do 'gene splicing', use the scissors to cut open the plasmid. The scissors represent the **restriction enzyme** opening the plasmid.
5. Tape the colored paper into the place where the plasmid was open, reforming the loop. The tape represents the **enzyme ligase** that affixes the new gene into the plasmid. This new plasmid with recombinant DNA is ready to be inserted into a bacterium so it can make growth hormone.

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**Information Infrastructure Technology
and Applications Program**



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Activity Report to the Congress National Science Foundation (U.S.). Office of Planning and Resources Management, 1979 **Resources in Education** , 1988 *Activity Report to the Congress* National Science Foundation (U.S.), 1981 Prisoners of Tomorrow James P. Hogan, 2015-06-16 TWO EPIC SCIENCE FICTION NOVELS BY A NEW YORK TIMES BEST SELLING AUTHOR TOGETHER IN ONE VOLUME New York Times bestseller Endgame Enigma and Prometheus Award winner Voyage from Yesteryear Endgame Enigma New York Times bestseller In the near future Russia has built Valentina Tereshkova a space station a mile in diameter a shining city in space Its builders claim that the orbiting space city is a peaceful Utopian experiment but American intelligence reports raise the ominous possibility that the space colony is actually a weapon built by the last heirs of the Soviet dictators When scientist Paula Bryce and trained agent Lew McCain travel to the station to investigate they become prisoners in the station s high tech prison facilities Escape seems impossible but if they can t escape Armageddon is inevitable Voyage from Yesteryear Prometheus Award winning novel Late in our century as nuclear war loomed Americans sent a colonization spaceship manned by robots to an Earthlike planet in the Alpha Centauri system On arrival the robot crew used recorded DNA information to bring forth a generation of infants whom they educated in accordance with the principles enunciated by the founders of the American government Generations later Earth has rebuilt after the war unfortunately with authoritarian governments which now can send manned starships with more colonists to the new world But their distant relatives are serious about all that life liberty the pursuit of happiness and the inalienable rights of the individual stuff principles to which the reconstructed America no longer gives even lip service Those uppity colonials have such an attitude At the publisher s request this title is sold without DRM Digital Rights Management About Endgame Enigma Tautly constructed well plotted and well written placing Hogan on the brink of joining the best selling authors Dean R Koontz and John Jakes United Press International Valentina Tereshkova will fascinate you A fascinating glimpse into the future Rave Reviews About Voyage from Yesteryear The more I read of Voyage From Yesteryear the more impressed I became and the more I enjoyed the book it s a great story Dougs Book Reviews About James P Hogan Pure science fiction Arthur C Clarke move over Isaac Asimov ambitious expertly handled fascinating notions and nonstop plot twists in a taut gripping narrative a bravura performance Kirkus Reviews on the cutting edge of technology Hogans talent carries the reader from peak to peak in the story while his knowledge of science constitutes a splendid backdrop for the non stop action Booklist Hogan a dean of hard SF parlayes Pathways to Otherwhere into an entertaining imaginative yarn Publishers Weekly *The Frankenfood Myth* Henry Miller, Gregory Conko, 2004-08-30 Few topics have inspired as much international furor and misinformation as the development and distribution of genetically altered foods For thousands of years farmers have bred crops for their resistance to disease productivity and nutritional value and over the past century scientists have used increasingly more sophisticated methods for modifying them at the genetic level But only since the

1970s have advances in biotechnology or gene splicing to be more precise upped the ante with the promise of dramatically improved agricultural products and public resistance far out of synch with the potential risks In this provocative and meticulously researched book Henry Miller and Gregory Conko trace the origins of gene splicing its applications and the backlash from consumer groups and government agencies against so called Frankenfoods from America to Zimbabwe They explain how a happy conspiracy of anti technology activism bureaucratic over reach and business lobbying has resulted in a regulatory framework in which there is an inverse relationship between the degree of product risk and degree of regulatory scrutiny The net result they argue is a combination of public confusion political manipulation ill conceived regulation from such agencies as the USDA EPA and FDA and ultimately the obstruction of one of the safest and most promising technologies ever developed with profoundly negative consequences for the environment and starving people around the world The authors go on to suggest a way to emerge from this morass proposing a variety of business and policy reforms that can unlock the potential of this cutting edge science while ensuring appropriate safeguards and moving environmentally friendly products into the hands of farmers and consumers This book is guaranteed to fuel the ongoing debate over the future of biotech and its cultural economic and political implications

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Connecting to the Future Information Infrastructure Technology and Applications Program,1994

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