

LAB: CLONING PAPER PLASMID

In this exercise you will use paper to simulate the cloning of a gene from one organism into a bacterial plasmid using a restriction enzyme digest. The plasmid (a small plasmid) can then be used to transform bacteria so that it can express a new gene and produce a new protein.

1. From the white paper, cut out the puc18 plasmid DNA in a long strip.

AAATCGTTTCG-----



2. Attach the ends together to make a loop to simulate the circular DNA of a plasmid.



3. From the green paper, cut out the Jellyfish Gfp gene DNA in a long strip. Leave it as a straight strip. (This is a gene from a vertebrate not a bacterium, so it is not circular.)

GGATCGAAGC-----

The gag and gag sequences for transcribing the Jellyfish GFP or Gfp gene are highlighted. These are needed to transcribe the gene properly when it is read. In addition, the HindIII & EcoRI restriction enzymes cutting sites (sequences of bases) are marked in **bold** on the Jellyfish Gfp gene DNA. The two restriction enzymes and their respective restriction sites are listed below. These enzymes act as "molecular scissors" to cut the DNA at these sequences in the DNA.

Restriction enzyme	Recognition site (5' - 3')
HindIII	A AGCT T T TCGAT A
EcoRI	G AATT C C TTAA G

The six-letter sequence represents the nitrogen base sequence that the enzyme recognizes, and T represents the place where the DNA will be cut by the enzyme. For example, HindIII cuts between A and A whenever it encounters the six-base sequence AAGCTT.

4. Examine the DNA sequence for the plasmid and the jellyfish gene. Which restriction enzyme should you use to cut the plasmid? the jellyfish gene? Remember, when you cut each gene, you need to retain the start and stop sequences. Should you use the same restriction enzyme to cut both the plasmid and the jellyfish gene? Why or why not?

5. Now you will incorporate the green Jellyfish Gfp gene into the plasmid. Attach the sticky ends of the Jellyfish Gfp gene to the sticky ends of the puc18 plasmid and seal with "molecular glue", the enzyme ligase (scotch tape will be used in our lab).

6. You have successfully cloned a gene! You now have a single plasmid with a new gene and can use that to transform a single bacterium. The bacterium will now make green Jellyfish glow protein and will glow under UV light.

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David C. Dale, Daniel D. Federman



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Isoflavones Victor R. Preedy, 2013 An extensive and detailed book that provides a snapshot of this fascinating scientific subject

Metal-Catalyzed Oxidations of Organic Compounds Roger Sheldon, 2012-12-02 Metal Catalyzed Oxidations of Organic Compounds Mechanistic Principles and Synthetic focuses on the oxidative transformations of functional groups This book explores oxidation as being extensively used in the laboratory synthesis of fine organic chemicals and in the manufacture of large volume petrochemicals Organized into two parts encompassing 13 chapters this book starts with an overview of the mechanistic principles of oxidation reduction in biochemical organic and inorganic systems This text then proceeds with a discussion of the use of molecular oxygen hydrogen peroxide and alkyl hydroperoxides as primary oxidants Other chapters explore stoichiometric oxidations with metal oxidants which include permanganate and chromic acid This book discusses as well the synthetic applications of catalytic oxidations as well as the technology of petrochemical oxidation The final chapter deals with the autoxidations of sulfur phosphorus and nitrogen compounds This book is intended for chemists involved in organic synthesis catalysis and organometallic chemistry both in academic institutions and in industrial laboratories

Genomics and the Global Bioeconomy Catalina Lopez-Correa, Adriana Suarez-Gonzalez, 2022-09-22 Genomics and the Global Bioeconomy a new volume in the Translational and Applied Genomics series empowers researchers administrators and sustainability leaders to apply genomics and novel omics technologies to advance the global bioeconomy and sustainability Here more than 15 international experts illustrate with concrete examples across various industries and areas of global need how genomics is addressing some of the most pressing global challenges of our time Chapters offer an in depth case based treatment of various topics from genomics technologies supporting sustainability development goals to novel synthetic biology advancements improving biofuel production conservation sustainable food production bioremediation and genomic monitoring Editors Catalina Lopez Correa and Adrian Suarez Gonzalez skillfully bring clarity to this diverse and increasingly impactful research uniting various perspectives to inspire fresh innovation in driving the global bioeconomy Presents concrete examples and detailed discussions that illustrate how to use genomics and omics technologies to drive the global bioeconomy Examines how genomics is addressing the most pressing environmental agricultural economic and natural resources challenges of our time Features chapter contributions from international experts who are applying genomic technologies across various fields from agriculture to biofuel production bioremediation biodiversity monitoring and conservation

Medical Management of the Thoracic Surgery Patient E-Book Michael I. Lewis, Robert J. McKenna, 2009-10-30 Medical Management of the Thoracic Surgery Patient by Michael I Lewis MD and Robert J McKenna Jr MD is a comprehensive pulmonary and thoracic reference that takes a practical approach to the diagnosis workup and care of the thoracic surgery patient It is geared towards pulmonary and critical care physicians and their trainees as well as all other specialties with whom thoracic surgeons consult and interact It outlines the principles for understanding the

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Case Studies in Geospatial Applications to Groundwater Resources Pravat Kumar Shit,Gouri Sankar

Bhunia,Partha Pratim Adhikary,2022-10-21 Case Studies in Geospatial Applications to Groundwater Resources provides thorough the most up to date techniques in GIS and geostatistics as they relate to groundwater through detailed case studies that prove real world applications of remote sensing applications to this subject Groundwater is the primary source of fresh water in many parts of the world while come regions are becoming overly dependent on it consuming groundwater faster than it is naturally replenished and causing water tables to decline unremittingly India is the largest user of groundwater in the world followed by China and the USA with developing countries using groundwater at an unsustainable rate Systematic planning of groundwater usage using modern techniques is essential for the proper utilization management and modeling of this precious but shrinking natural resource With the advent of powerful and highspeed personal computers efficient techniques for water management have evolved of which remote sensing GIS Geographic Information Systems GPS Global Positioning Systems and Geostatistical techniques are of great significance This book advances the scientific understanding development and application of geospatial technologies related to water resource management Case Studies in Geospatial

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Pediatric Gastrointestinal and Liver Disease E-Book Robert Wyllie, Jeffrey S. Hyams, Marsha Kay, 2015-07-08 Consult the leading text in the field that delivers the information you need to diagnose and treat pediatric gastrointestinal and liver diseases effectively In one convenient and comprehensive volume Drs Robert Wyllie Jeffrey S Hyams and Marsha Kay provide all the latest details on the most effective new therapies new drugs and new techniques in the specialty In addition the new two color design throughout helps you find what you need quickly and easily Full color endoscopy images to help improve your visual recognition Definitive guidance from renowned international contributors who share their knowledge and expertise in this complex field Detailed diagrams that accurately illustrate complex concepts and provide at a glance recognition of disease processes More than 400 board review style questions answers and rationales New therapies for hepatitis B and C new drugs for the treatment of inflammatory bowel disease and an expanded discussion of the newest endoscopic and motility techniques available for pediatric patients The most current information on diagnosing and treating abnormalities of protein fat and carbohydrate metabolism New chapters on pancreatic transplantation and liver pathology The latest surgical techniques for children with gastrointestinal conditions

Probiotics in The Prevention and Management of Human Diseases Mitesh Kumar Dwivedi, N. Amaresan, A Sankaranaryanan, Helen Kemp, 2021-12-02 Probiotics in The Prevention and Management of Human Diseases A Scientific Perspective addresses the use of probiotics and their mechanistic aspects in diverse human diseases In particular the mechanistic aspects of how these probiotics are involved in mitigating disease symptoms novel approaches and immune mechanisms induced by Probiotics clinical trials of certain probiotics and animal model studies will be presented through this book In addition the book covers the role of probiotics in prevention and management aspects of crucial human diseases including multidrug resistant infections hospital acquired infections allergic conditions autoimmune diseases metabolic disorders gastrointestinal diseases neurological disorders and cancers Finally the book addresses the use of probiotics as vaccine adjuvants and as a solution for nutritional health problems and describes the challenges of using probiotics in management of human disease conditions as well as their biosafety concerns Intended for nutrition researchers microbiologists physiologists and researchers in related disciplines as well as students studying these topics require a resource that addresses the specific role of probiotics in the prevention and management of human disease Contains

information on the use of probiotics in significant human diseases including antibiotic resistant microbial infections Presents novel applications of probiotics including their use in vaccine adjuvants and concept of pharmabiotics Includes case studies and human clinical trials for probiotics in diverse disease conditions and explores the role of probiotics in mitigation of the symptoms of disease Applications of Nanobiotechnology for Neglected Tropical Diseases Fabio Rocha Formiga, Inamuddin, Patrícia Severino, 2021-02-20 Applications of Nanobiotechnology for Neglected Tropical Diseases describes recent advances in nanobiotechnology that can be applied to reducing the global disease burden of neglected tropical diseases NTDs The book explores the application of nanotechnology on the development of safe effective and reliable tools to prevent diagnose and treat NTDs Furthermore Applications of Nanobiotechnology for Neglected Tropical Diseases includes multidisciplinary content combining knowledge from biochemistry medicinal chemistry material sciences pharmacology and pharmaceuticals The book is divided into three main parts each outlining one major type of approach 1 nano based approaches for prevention 2 nano diagnostics and detection and 3 nanotherapeutics Each part contains chapters that delve into the different applications of the type of approach being presented in that part A discussion of other approaches against NTD follows these three parts This book is remarkable in its ability to encompass and thoroughly explain the latest techniques in nanobiotechnology from basic research to patient oriented investigation Offers a broad overview of nanobiotechnology applied to the prevention diagnostics and treatment of NTDs Presents cutting edge recent advances in nanobiotechnology focusing on diseases reported by the World Health Organization s NTDs Roadmap e g leishmaniasis malaria schistosomiasis filariasis etc Provides a deep discussion about ground breaking approaches designed to meet the medical needs of patients suffering from NTDs Gives examples of multidisciplinary investigations into NTDs from research labs to clinics *Comprehensive Organic Chemistry, Volume 3* D. Neville Jones, 1979-04-09 A medium sized reference work designed to fill the gap between the smaller and less informative works on organic chemistry of the text book style and existing multi volume series which are published in parts over long periods The contents reflect what are judged to be truly important facets of modern organic chemistry Emphasis has been given throughout to the properties and reactions of all the important classes of organic compounds including the remarkable array of different compounds prepared by synthesis as well as natural products created by biosynthesis The information is presented in a concise and logical manner with mechanistic organic chemistry being adopted to provide a constant and correlative theme **ACP Medicine** David C. Dale, Daniel D. Federman, 2004 ACP Medicine is the product of a new partnership between the American College of Physicians and WebMD Professional Publishing Developed from WebMD Scientific American Medicine it provides a continually updated comprehensive internal medicine reference Horticultural Abstracts , 1994

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