Lab - Transformation of *E. coli* Bacteria with the pGLO plasmid

I. INTRODUCTION:

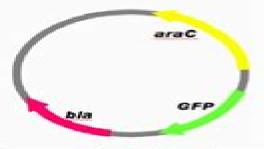
Green Fluorescent Protein is used extensively in biology research and work. It is one among several fluorescent proteins that allow DNA to be sequenced automatically by lasers. It is used quite frequently to label cells for studying how organisms develop as embryos and it is a key part of ongoing stem cell research. The protein itself does not glow but it can be made to fluoresce with a green light when exposed to ultraviolet (UV) light.

Bacteria grow well with the food source Luria Broth (LB). You can grow them either in liquid LB or on the surface of a petri dish with a mixture of LB and agar that solidifies into a thick gel. Antibiotics are sometimes also added to the agar to help control the growth of bacteria that are unwanted at the end of the experiment. Most antibiotics either kill the bacteria or keep them from reproducing. We will be using an antibiotic called ampicillin (amp).

Lab groups will prepare bacterial cells using calcium chloride to help the small plasmid circles of DNA get through the membrane of the cell. Then, you will get a plasmid into half of these cells by weakening the membrane

further with heat shocks (cold, hot cold). A small percentage of the millions of bacteria in your sample should successfully take in plasmids.

Each plasmid contains a gene coding for green fluorescent protein (GFP), a gene coding for an enzyme (beta-lactamase) that breaks down the antibiotic ampicillin and a region that is like a lock or on/off switch for the green fluorescent protein gene. The on/off switch or lock is called an "inducible operion" that is usually in the "off" or locked position. The sugar archipose (are) is the key



position. The sugar arabinose (ara) is the key that opens the lock and turns on the GFP region of the plasmid.

You will put your transformation mixes (and your control sample) onto petri dishes to compare what happens with ones that have the plasmid to ones that have not received the plasmid. After the bacteria have had a chance to grow we will look at them under normal and ultraviolet light. It will take at least a day to show results.

Pre-lab Questions

- What is a plasmid?
- 2. What is a gene?
- 3. What is luria broth (LB)?

Wards Transformation Of E Coli Lab Answers

Princeton Review

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Biotechnology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998 Cracking the AP **Biology Exam, 2014 Edition** Kim Magloire, 2013 Featuring a comprehensive biology test topic review and an overview of the subject matter changes made to the 2013 AP Biology Exam this revised edition provides students with test strategies review guestions and two full length practice tests Original Annual Report, Intramural Activities National Cancer Cracking the AP Biology Exam, 2016 Edition Princeton Institute (U.S.). Division of Cancer Etiology, 1987 Review, 2015-08-11 EVERYTHING YOU NEED TO HELP SCORE A PERFECT 5 Equip yourself to ace the AP Biology Exam with The Princeton Review s comprehensive study guide including 2 full length practice tests thorough content reviews access to our AP Connect online portal and targeted strategies for every section of the exam This eBook edition has been specially formatted for on screen viewing with cross linked questions answers and explanations We don't have to tell you how tough AP Biology is or how important a stellar score on the AP Exam can be to your chances of getting into a top college of your choice Written by Princeton Review experts who know their way around Bio Cracking the AP Biology Exam will give you Techniques That Actually Work Tried and true strategies to help you avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need to Know to Help Achieve a High Score Comprehensive content review for all test topics Up to date information on the 2016 AP Biology Exam Engaging activities to help you critically assess your progress Access to AP Connect our online portal for helpful pre college information and exam updates Practice Your Way to Excellence 2 full length practice tests with detailed answer explanations Practice drills at the end of each content chapter Lists of key terms in every content chapter to help focus your studying

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Annual Meeting of Biotechnologists, May 28-30, 1990, Frankfurt Am Main, F.R.G.: Biochemical methods for water analysis (GDCh-Workshop), Presentation of cell culture technology laboratories, Microbial principles in bioprocesses applied genetics, Microbial material deterioration, Environmental biotechnology Dieter Behrens, Peter Krämer, 1990 ICRDB Cancergram, 1986 Learning to Save the World Betsey Behr Brada, 2023-02-15 Learning to Save the World provides an innovative analysis of how individuals inhabit refuse and reconfigure the contours of global health In 2001 Botswana's government faced with one of the highest HIV prevalence rates in the world committed itself to sub Saharan Africa's first free public HIV treatment program US based private foundations and medical schools offered support to demonstrate the feasibility of public HIV treatment in Africa Given US interest and investment in global health this support created opportunities for US physicians and medical trainees to interact with local practitioners treat patients and shape health policy in Botswana Although global health has emerged as a powerful call to planetary moral action the nature of this exhortation remains unclear Is global health a new movement for social justice or is it neocolonial creating new dependencies under the banner of humanitarianism Betsey Behr Brada shows that global health is a frontier an imaginative framework that organizes the space time and ethics of encounter Learning to Save the World reveals how individuals and collectivities engaged in global health visiting experts as well as local clinicians and patients come to regard themselves and others in terms of this framework

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The discovery and therapeutic targeting of immune checkpoints have revolutionized cancer treatment offering new hope for patients with various malignancies Over the past decade our comprehension of the tumor immune microenvironment has expanded significantly revealing the intricate mechanisms that govern treatment responses and the prognostic value of immune cell compositions in different cancer models Recent advancements in multiplex profiling platforms have enabled researchers to capture detailed tumor architecture and spatial information providing a deeper understanding of the role of molecular biomarkers in cancer treatment Despite these advancements there remains a need to further explore the dynamics of tumor stromal and immune cell interactions to design novel strategies targeting the tumor immune microenvironment and its communication pathways Nuclear Science Abstracts ,1967-07 Visualizing Microbiology Rodney P. Anderson, Linda Young, Kim R. Finer, 2020-12-10 The second edition of Visualizing Microbiology contains a completely redesigned TOC and the most current coverage of the COVID 19 pandemic This text is ideal for introductory microbiology courses for non majors and pre allied health students Visualizing Microbiology brings the narrative to life with an applied clinical focus helping students see and understand the unseen in the world of microbiology The unique visual pedagogy of the text provides a powerful combination of content and visuals ideal for microbiology **Current Bibliography of Epidemiology**, 1977 Monthly with annual cumulations Comprehensive current index to periodical medical literature intended for use of practitioners investigators and other workers in community medicine who are concerned with the etiology prevention and control of disease Citations are derived from MEDLARS tapes for Index medicus of corresponding date Arrangement by 2 sections i e Selected subject headings and Diseases organisms vaccines No author index

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