

Write an essay on using DNA in science and technology. (25 marks)

- Phylogenetic trees
- DNA screening to determine genetic disorders
- Gene therapy
- Recombinant DNA
- Genetic fingerprinting

DNA has helped find an evolutionary relationship between different organisms in order to create phylogenetic trees. Phylogenetic trees are used to show how an organism evolved by showing how closely related organisms are to one another. This allows scientists to study an entire group of organisms in order to make valid predictions for the future and develop new theories. Without this, we wouldn't be able to understand how some organisms are related to a specific species by looking at the similarities of the DNA sequences. The more similar the sequence of DNA the more closely related the two organisms are. This is important to be able to develop future predictions to know how this can affect the food chains and further diversification of species.

DNA screening can be used to identify any anomalies in the DNA sequence to predict possible diseases that the individual might be more likely to get. This is done using DNA probes, which can locate specific alleles on the DNA. Probes have specific bases that are complementary to the base sequence of the target allele. The probe can be fluorescent, meaning that if an individual has the mutated allele then the probe will appear fluorescent under a UV light. Without this technology and method of identifying a specific allele, the individual may not be aware that they are more at risk to developing a particular genetic disorder. Providing this information to the individual, will allow them to be more cautious and more attentive to their body and how they feel in order to identify any changes in their well-being. If any change is detected and the individual seeks help from a doctor early enough, the disease can be removed completely.

DNA can also be used in gene therapy, used to treat genetic disorders. There have been attempts to treat severe combined immunodeficiency (SCID) using gene therapy. This disease doesn't produce an immune-response because it's unable to produce antibodies. For SCID in particular, gene therapy isolates the normal ADA gene from healthy human tissue. Then the ADA gene is inserted into a retrovirus, which grows within host cells in the laboratory to increase their number and increase the number of copies of the ADA gene. Next, the retroviruses are mixed with the patient's T cells into which the normal ADA gene is injected into. The T cells are reintroduced into the patient's blood to provide the coded information needed to make ADA. With this method, it enables individuals suffering from this disease to improve their way of living.

# Using Dna In Science And Technology Essay Plan

**Charles Messenger**



## Using Dna In Science And Technology Essay Plan:

**Science Policy Implications of DNA Recombinant Molecule Research** United States. Congress. House. Committee on Science and Technology. Subcommittee on Science, Research, and Technology, 1977 Science and the American Century Sally Gregory Kohlstedt, David Kaiser, 2013-03-14 The twentieth century was one of astonishing change in science especially as pursued in the United States Against a backdrop of dramatic political and economic shifts brought by world wars intermittent depressions sporadic and occasionally massive increases in funding and expanding private patronage this scientific work fundamentally reshaped everyday life Science and the American Century offers some of the most significant contributions to the study of the history of science technology and medicine during the twentieth century all drawn from the pages of the journal Isis Fourteen essays from leading scholars are grouped into three sections each presented in roughly chronological order The first section charts several ways in which our knowledge of nature was cultivated revealing how scientific practitioners and the public alike grappled with definitions of the natural as they absorbed and refracted global information The essays in the second section investigate the changing attitudes and fortunes of scientists during and after World War II The final section documents the intricate ways that science as it advanced became intertwined with social policies and the law This important and useful book provides a thoughtful and detailed overview for scholars and students of American history and the history of science as well as for scientists and others who want to better understand modern science and science in America *Federally Funded Research* United States. Congress. Office of Technology Assessment, 1991 **The Cloning Sourcebook** Arlene Judith Klotzko, 2001 Animal cloning has developed quickly since the birth of Dolly the sheep Yet many of the first questions to be raised still need to be answered What do Dolly and her fellow mouse cow pig goat and monkey clones mean for science And for society Why do so many people respond so fearfully to cloning What are the ethical issues raised by cloning animals and in the future humans How are the makers of public policy coping with the stunning fact that an entire animal can be reconstructed from a single adult cell And that humans might well be next The Cloning Source Book addresses all of these questions in a way that is unique in the cloning literature by grounding what is effectively an interdisciplinary conversation in solid science In the first section of the book the key scientists responsible for the early and crucial developments in cloning speak to us directly and other scientists evaluate and comment on these developments The second section explores the context of cloning and includes sociological mythological and historical perspectives on science ethics and policy The authors also examine the media's treatment of the Dolly story and its aftermath both in the United States and in Britain The third section on ethics contains a broad range of papers written by some of the major commentators in the field The fourth section addresses legal and policy issues It features individual and collective contributions by those who have actually shaped public policy on reproductive cloning therapeutic cloning and similarly contentious bioethical issues in the United States Britain and the European Union Animal cloning

continues for agricultural and medicinal purposes the latter in combination with transgenics Human cloning for therapeutic purposes has recently been made legal in Britain The goal is to produce an early embryo and then derive stem cells that are immunologically matched to the donor Two human reproductive cloning projects have been announced and there are almost certainly others about which we know nothing Sooner or later a cloned human will be born Many lessons can be learned from the cloning experience Most importantly there needs to be a public conversation about the permissible uses of new and morally murky technologies Scientists journalists ethicists and policy makers all have roles to play but cutting edge science is everybody's business The Cloning Sourcebook provides the tools required for us to participate in shaping our own futures

*Congressional Record* United States. Congress, 2003 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873

**Federally Funded Research: Decisions for a Decade**, 1991      **Theological and Ethical Perspectives on Climate Engineering** Forrest Clingerman, Kevin J. O'Brien, 2016-09-09 The climate is changing as an unintended consequence of human industrialization and consumerism Recently some scientists and engineers have suggested climate engineering technological solutions that would intentionally change the climate to make it more hospitable This approach focuses on large scale technologies to alleviate the worst effects of anthropogenic climate change This book considers the moral philosophical and religious questions raised by such proposals bringing Christian theology and ethics into the conversation about climate engineering for the first time The contributors have different views on whether climate engineering is morally acceptable and on what kinds of climate engineering are most promising and most dangerous but all agree that religion has a vital role to play in the analysis and decisions called for on this vital issue Calming the Storm presents diverse perspectives on some of the most vital questions raised by climate engineering Who has the right to make decisions about such global technological efforts What have we learned from the decisions that caused the climate to change that might shed light on efforts to reverse that change What frameworks and metaphors are helpful in thinking about climate engineering and which are counterproductive What religious beliefs practices and rituals can help people to imagine and evaluate the prospect of engineering the climate      **The Scientist**, 1987      **Biomedical Defense Principles to Counter DNA Deep Hacking** Rocky Termanini, 2022-12-02 Biomedical Defense Principles to Counter DNA Deep Hacking presents readers with a comprehensive look at the emerging threat of DNA hacking Dr Rocky Termanini goes in depth to uncover the erupting technology being developed by a new generation of savvy bio hackers who have skills and expertise in biomedical engineering and bioinformatics The book covers the use of tools such as CRISPR for malicious purposes which has led agencies such as the U S Office of the Director of National Intelligence to add gene editing to its annual list of threats posed

by weapons of mass destruction and proliferation Readers will learn about the methods and possible effects of bio hacking attacks and in turn the best methods of autonomic and cognitive defense strategies to detect capture analyze and neutralize DNA bio hacking attacks including the versatile DNA symmetrical AI Cognitive Defense System ACDS DNA bio hackers plan to destroy distort and contaminate confidential healthy DNA records and potentially create corrupted genes for erroneous diagnosis of illnesses disease genesis and even wrong DNA fingerprinting for criminal forensics investigations Presents a comprehensive reference for the fascinating emerging technology of DNA storage the first book to present this level of detail and scope of coverage of this groundbreaking field Helps readers understand key concepts of how DNA works as an information storage system and how it can be applied as a new technology for data storage Provides readers with key technical understanding of technologies used to work with DNA data encoding such as CRISPR as well as emerging areas of application and ethical concern such as smart cities cybercrime and cyber warfare Includes coverage of synthesizing DNA encoded data sequencing DNA encoded data and fusing DNA with Digital Immunity Ecosystem DIE

**The Distributed Functions of Emergency Management and Homeland Security** David A. McEntire, 2023-07-19 The Distributed Functions of Emergency Management and Homeland Security outlines the roles and responsibilities of various individuals and agencies involved in homeland security and all aspects of emergency management Each chapter focuses on the practical and applied aspects of a range of public servants in various departments and the organizations that they represent Rather than presenting a theoretical exploration alone the book examines the practical knowledge and hands on skills related to various functions and how their decisions and actions play into the larger framework of safety and security in the public private and nonprofit sectors Every professional has a unique and integral part to play in fulfilling their roles and obligations whether it be in relation to prevention mitigation preparedness response or recovery operations Personnel that frequently come to mind in such scenarios include emergency managers geographers and land use planners EMTs and paramedics fire fighters police officers public health officials nurses public administrators and public information officers And while these individuals are integral to homeland security and emergency management there are other professionals that also perform essential duties that while they aren't first to mind are vital to efforts relating to terrorism and disasters this includes pilots in the aviation sector the military attorneys psychologists and forensic professionals serving in pathology DNA and dentistry roles Chapters provide a holistic rendering of the homeland security and emergency management landscape to present all these various professional capabilities and contributions This includes how current functions are coordinated as well as how future efforts might change relative to a more proactive all hazards and holistic approach As such the book will be a useful resource for students and practitioners to understand the dynamic professions and various disciplines and fields that impact disaster and terrorism preparedness and response capabilities

*The Intellectual Property and Food Project* Charles Lawson, Jay Sanderson, 2016-03-03 The relationship between intellectual property and food affects the production and

availability of food by regulating dealings in products processes innovations information and data With increasingly intricate relations between international and domestic law as well as practices and conventions intellectual property and food interact in many different ways This volume is a timely consideration and assessment of some of the more contentious and complex issues found in this relationship such as genetic technology public research and food security socio economic factors and the root cause of poverty and patent busting The contributions are from leading scholars in this emerging field and each chapter foregrounds some of the key developments in the area exploring historical doctrinal and theoretical issues in the field while at the same time developing new ideas and perspectives around intellectual property and food The collection will be a useful resource in leading further discussion and debate about intellectual property law and food **The American Biology**

**Teacher** ,2006 *Transforming Conflict through Communication in Personal, Family, and Working Relationships* Peter M. Kellett,Thomas G. Matyók,2016-11-15 A transformational approach to conflict argues that conflicts must be viewed as embedded within broader relational patterns and social and discursive structures Central to this book is the idea that the origins of transformation can be momentary situational and small scale or large scale and systemic The momentary involves shifts and meaningful changes in communication and related patterns that are created in communication between people Momentary transformative changes can radiate out into more systemic levels and systemic transformative changes can radiate inward to more personal levels This book engages this transformative framework by bringing together current scholarship that epitomizes and highlights the contribution of communication scholarship and communication centered approaches to conflict transformation in personal family and working relationships and organizational contexts The resulting volume presents an engaging mix of scholarly chapters think pieces and personal experiences from the field of practice and everyday life The book embraces a wide variety of theoretical and methodological approaches including narrative critical intersectional rhetorical and quantitative It makes a valuable additive contribution to the ongoing dialogue across and between disciplines on how to transform conflicts creatively sustainably and ethically **ENC Focus** ,1999 **Knowledge Discovery in Big Data from Astronomy and Earth Observation** Petr Skoda,Fathalrahman Adam,2020-04-10 Knowledge Discovery in Big Data from Astronomy and Earth Observation Astrogeoinformatics bridges the gap between astronomy and geoscience in the context of applications techniques and key principles of big data Machine learning and parallel computing are increasingly becoming cross disciplinary as the phenomena of Big Data is becoming common place This book provides insight into the common workflows and data science tools used for big data in astronomy and geoscience After establishing similarity in data gathering pre processing and handling the data science aspects are illustrated in the context of both fields Software hardware and algorithms of big data are addressed Finally the book offers insight into the emerging science which combines data and expertise from both fields in studying the effect of cosmos on the earth and its inhabitants Addresses both astronomy and geosciences in parallel from a big data perspective Includes introductory information key principles

applications and the latest techniques Well supported by computing and information science oriented chapters to introduce the necessary knowledge in these fields      *Democratizing Technology* Anne Chapman,2012-04-27 Democratizing Technology provides a much needed fresh perspective on the regulation of chemicals and an important contribution to green thinking about technology Caroline Lucas Green Party MEP This book is an excellent critique of the current risk based approach to technology By exploring the philosophical underpinnings and the practical applications of current policy on science and technology Chapman exposes the serious flaws in allowing economic considerations to dominate the agenda in this area Her proposals for reform are expertly constructed and deserve urgent and serious consideration by policy makers Dr Stuart Parkinson Executive Director Scientists for Global Responsibility In this important book Anne Chapman argues that decisions about technology should answer a republican question what kind of public world should we create through technology Democratizing Technology deserves to be read widely John O'Neill Professor of Political Economy University of Manchester UK A welcome addition to the new more empirical and applied literature in philosophy of technology This book will be essential reading for a variety of scholars and for the general reader intent on understanding and criticizing our chemically made world Andrew Light Interim Director Program on the Environment University of Washington US What is technology How do humans use it to build and modify the world What are the relationships between technology science economics and democratic governance What if any are our ethical and political responsibilities and choices in how we develop deploy and control technology in democratic states Democratizing Technology sets out to answer these questions Focusing on the most widespread and pervasive technology chemicals this groundbreaking volume peels apart the critical technology debate to look at the relationship between humans technology and the biological world Attention is given to the immensely important new regulations REACH Registration Evaluation Authorization and restriction of Chemicals the EUs largest ever legal framework discussing the problems that are likely to occur in REACHs reliance on risk assessment methods and suggesting an alternative way forward for the regulation of chemicals Providing much needed clarity and insight into the heart of key debates in science and technology risk analysis and mitigation and domestic and international law this volume arrives as a breath of fresh air      *Innovative Curriculum Materials* ,1999      **Reader's Guide to Military History** Charles Messenger,2013-10-31 This book contains some 600 entries on a range of topics from ancient Chinese warfare to late 20th century intervention operations Designed for a wide variety of users it encompasses general reviews of aspects of military organization and science as well as specific wars and conflicts The book examines naval and air warfare as well as significant individuals including commanders theorists and war leaders Each entry includes a listing of additional publications on the topic accompanied by an article discussing these publications with reference to their particular emphases strengths and limitations      **Resources in Education** ,1999-10      *Applied Science & Technology Index* ,1981

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