

# Acces PDF Essment Of Future Scientific Needs For Live Variola Virus Comp Series

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As climate change denial gives way to acceptance, economic activity agnostic to its negative

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externalities requires a rethink. Businesses must strategically rethink business models with a nudge from ...

View: Impact of climate change needs to be illustrated as potential risks & returns  
Governments have failed to slow climate change quickly enough, so activists are using courts to compel countries and companies to act — increasingly with help from forefront science.

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Unleashed from restrictive norms for recruiting and interacting with patients, researchers are finding ways to bring more people into trials by simply making enrollment and participation accessible ...

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Hematology Analyzers And Reagents Market Strategic Assessment, and Forecast to 2027 – Siemens, Mindray, Diatron, Biosystems

The Illinois Senate put the final legislative stamp on an energy regulation overhaul bill Monday, Sept. 13 sending it to Gov. J.B. Pritzker, who says he will sign it. It ' s the culmination of years of ...

Pritzker praises passage of massive energy overhaul for Illinois

A new informative report titled as “ Global Lithium Cobaltate Market Report 2021 by Key Players, Types, Applications, Countries, Market Size, Forecast to 2027 (Based on 2020 COVID-19 Worldwide Spread) ” ...

Lithium Cobaltate Market Potential Growth, Size, Share, Demand And Analysis Of Key Players – Research Forecasts To 2027

Other large-scale federated learning projects are already underway in the healthcare industry, including a five-member study for mammogram assessment ... needs to tackle complex health challenges and ...

Medical AI Needs Federated Learning, So Will Every Industry

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Are we there yet? is an age-old question that back-seat passengers have been asking for decades. Automotive engineers on the lightweighting journey are faced with a similar quandary.

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The UB ice scientist's work on the UN publication reflects a decade of leadership on international collaborations.

### UB ice scientist among authors of new IPCC climate change report

Lessons taught by Native elders are retooled for the role food, housing, language and ritual play in contemporary human rights struggles.

On the Navajo Nation, “ putting seeds in the ground is our greatest act of resistance, ” Fort Lewis students learn

In countries like the United States, scientists and resource managers have been successfully ensuring the sustainability of commercial, recreational, and subsistence fisheries primarily by managing ...

### Habitat must have bigger role in stock assessment, scientists say

To achieve net-zero by 2050 by the large-scale adoption of renewable energy projects, India needs at least 65,000 sq. km of land for solar and wind installations.

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Dermacosmetics Brand, Pura Earth, in Ecuador ...

Avicanna Completes Registration and Commercial Export of its Evidence-Based CBD  
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RESULTS FROM MASITINIB STUDY AB12003 IN PROSTATE CANCER PRESENTED AT THE  
AMERICAN UROLOGICAL ASSOCIATION ANNUAL MEETING WITH ABSTRACT PUBLISHED IN  
JOURNAL OFUROLOGY Paris,13September, 2021,6pmCET AB ...

AB Science announced today that results from masitinib study AB12003 in prostate cancer  
have ...  
Prime Minister Narendra Modi launched multiple key schemes in the education sector during  
the inaugural conclave of 'Shikshak Parv' on Tuesday.

Education needs to be both equitable and inclusive: PM Modi at inaugural Shikshak Parv  
conclave  
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information related to ...

Plant Phenotyping Equipment Market | Valued Worth USD 376.37 Mn in 2020 | Will Grow  
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In 1980, the World Health Organization (WHO) officially declared that smallpox had been eradicated. In 1986, WHO's international Ad Hoc Committee on Orthopox Virus Infections unanimously recommended destruction of the two remaining official stocks of variola virus, one at the Centers for Disease Control and Prevention and the other at the VECTOR laboratory in Siberia. In June 1999, WHO decided to delay the destruction of these stocks. Informing that decision was Assessment of Future Scientific Needs for Variola Virus, which examines: -- Whether the sequenced variola genome, vaccinia, and monkey pox virus are adequate for future research or whether the live variola virus itself is needed to assist in the development of antiviral therapies. -- What further benefits, if any, would likely be gained through the use of variola in research and development efforts related to agent detection, diagnosis, prevention, and treatment. -- What unique potential benefits, if any, the study of variola would have in increasing our fundamental understanding of the biology, host-agent interactions, pathogenesis, and immune mechanisms of viral diseases.

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Smallpox was a devastating disease that decimated human populations for centuries, and its eradication in 1980 was a monumental achievement for the global health community. Since then the remaining known strains of its causative agent, variola virus, have been contained in two World Health Organization (WHO)-approved repositories. In 1999, the World Health Assembly (WHA) debated the issue of destroying these remaining strains. Arguments were presented on the need to retain the live virus for use in additional important research, and the decision to destroy the virus was deferred until this research could be completed. In that

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same year, the Institute of Medicine (IOM) convened a consensus committee to explore scientific needs for the live virus. In the ten years since the first IOM report, the scientific, political, and regulatory environments have changed. In this new climate, the IOM was once again tasked to consider scientific needs for live variola virus. The committee evaluated the scientific need for live variola virus in four areas: development of therapeutics, development of vaccines, genomic analysis, and discovery research.

A Strategy for Assessing Science offers strategic advice on the perennial issue of assessing rates of progress in different scientific fields. It considers available knowledge about how science makes progress and examines a range of decision-making strategies for addressing key science policy concerns. These include avoiding undue conservatism that may arise from the influence of established disciplines; achieving rational, high-quality, accountable, and transparent decision processes; and establishing an appropriate balance of influence between scientific communities and agency science managers. A Strategy for Assessing Science identifies principles for setting priorities and specific recommendations for the context of behavioral and social research on aging.

Risk assessment has become a dominant public policy tool for making choices, based on limited resources, to protect public health and the environment. It has been instrumental to the mission of the U.S. Environmental Protection Agency (EPA) as well as other federal agencies in evaluating public health concerns, informing regulatory and technological decisions, prioritizing research needs and funding, and in developing approaches for cost-

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benefit analysis. However, risk assessment is at a crossroads. Despite advances in the field, risk assessment faces a number of significant challenges including lengthy delays in making complex decisions; lack of data leading to significant uncertainty in risk assessments; and many chemicals in the marketplace that have not been evaluated and emerging agents requiring assessment. Science and Decisions makes practical scientific and technical recommendations to address these challenges. This book is a complement to the widely used 1983 National Academies book, Risk Assessment in the Federal Government (also known as the Red Book). The earlier book established a framework for the concepts and conduct of risk assessment that has been adopted by numerous expert committees, regulatory agencies, and public health institutions. The new book embeds these concepts within a broader framework for risk-based decision-making. Together, these are essential references for those working in the regulatory and public health fields.

Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12

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science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward

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provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration.

Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

An increasingly important and often overlooked issue in science and technology policy is recognizing the role that philanthropies play in setting the direction of research. In an era where public and private resources for science are strained, the practices that foundations adopt to advance basic and applied research needs to be better understood. This first-of-its-kind study provides a detailed assessment of the current state of science philanthropy. This examination is particularly timely, given that science philanthropies will have an increasingly important and outsized role to play in advancing responsible innovation and in shaping how research is conducted. Philanthropy and the Future of Science and Technology surveys the landscape of contemporary philanthropic involvement in science and technology by combining theoretical insights drawn from the responsible research and innovation (RRI)

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framework with empirical analysis investigating an array of detailed examples and case studies. Insights from interviews conducted with foundation representatives, scholars, and practitioners from a variety of sectors add real-world perspective. A wide range of philanthropic interventions are explored, focusing on support for individuals, institutions, and networks, with attention paid to the role that science philanthropies play in helping to establish and coordinate multi-sectoral funding partnerships. Novel approaches to science philanthropy are also considered, including the emergence of crowdfunding and the development of new institutional mechanisms to advance scientific research. The discussion concludes with an imaginative look into the future, outlining a series of lessons learned that can guide how new and established science philanthropies operate and envisioning alternative scenarios for the future that can inform how science philanthropy progresses over the coming decades. This book offers a major contribution to the advancement of philanthropic investment in science and technology. Thus, it will be of considerable interest to researchers and students in public policy, public administration, political science, science and technology studies, sociology of science, and related disciplines.

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