



Development of Biology E-Module Based on POGIL in Virus and Bacteria Material to Train HOTS X Graders of Senior High School

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Article Information	ABSTRAK
Submitted: 27 – 07 – 2023 Accepted: 28 – 09 – 2023 Published: 29 – 09 – 2023	Higher Order Thinking Skill (HOTS) merupakan keterampilan yang perlu dimiliki setiap individu untuk dapat menyelesaikan masalah yang dialami secara cepat, kritis dan logis. Realitanya kondisi HOTS di Indonesia masih rendah. Penelitian ini bertujuan untuk membuat dan menilai kelayakan E-modul biologi berbasis POGIL pada materi virus dan bakteri. Penelitian ini menggunakan model pengembangan 4D (Define, Design, Development, and Disseminate), namun dibatasi pada tahap Development. Sampel uji coba produk pada 42 siswa IPA kelas X diambil secara acak. Hasil validasi dari ahli media, ahli POGIL, ahli materi, ahli bidang HOTS, serta guru biologi yaitu, 83,3%; 85%; 82,5%; 86,2%; serta 88,6%. Keseluruhan hasil dari validasi ahli memiliki kualitas sangat layak. Tanggapan peserta didik terkait E-modul berbasis POGIL pada materi virus dan bakteri mendapatkan hasil sebesar 85,3% yang termasuk kategori sangat layak. E-modul memiliki kategori sangat layak diaplikasikan menjadi sumber belajar siswa SMA/MA kelas X. Kata kunci: E-Modul; HOTS; POGIL.
Publisher	ABSTRACT
Program Studi Pendidikan Biologi, Fakultas Sains dan Teknologi, UIN Walisongo Semarang	Higher-Order Thinking Skill (HOTS) is a skill that every individual needs to be able to solve problems quickly, critically, and logically. The condition of HOTS in Indonesia is still low. This study aims to create and assess the feasibility of E-module biology based on POGIL on viral and bacterial materials. This study uses the 4D development model (Define, Design, Develop, and Disseminate) but is limited to the Development stage. The product trial sample on 42 science students of grade X was taken randomly. The validation results from media experts, POGIL experts, material experts, HOTS experts, and biology teachers, namely, 83.3%, 85%, 82.5%, 86.2%, and 88.6%. The overall results from the expert validation are of very decent quality. The student's responses regarding the E-module based on POGIL on the virus and bacteria material obtained a mark of 85.3%, which included the very decent category. E-module is a feasible type to be applied as a learning resource for X senior high school grades. Keywords: E-Modul; HOTS; POGIL.

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Pogil And Viruses

Dorothy H. Crawford



Pogil And Viruses:

Proceedings of the International Conference on Learning and Advanced Education (ICOLAE 2022) Mauly Halwat Hikmat,Yasir Sidiq,Naufal Ishartono,Yunus Sulistyono,Patmisari,Susiati,2023-08-29 This is an open access book The COVID 19 pandemic in the last two years has influenced how educational system works Online learning became the primal policy taken by all institutions in the world to lower the risk of the virus spread Despite the drawbacks of the online learning teachers and students were accustomed with the distant learning through web meetings Learning Management Systems LMS and other online learning platforms In that time topics under digital learning and education 5 0 were the main stakes in academic disseminations This year some institutions start to conduct their teaching and learning process classically as before the pandemic others are still continuing online and not few are in hybrid This leaves a question what learning reform should be made in post pandemic era This conference invites researchers experts teachers and students to discuss the coping solutions of the question It is important for them to contribute to the understanding of re imaging online education for better futures innovative learning design new skills for living and working in new times global challenge of education learning and teaching with blended learning flipped learning integrating life skills for students in the curriculum developing educators for the future distance learning humanities learning in the digital era assessment and measurement in education challenges and transformations in education technology in teaching and learning new learning and teaching models Not limited to these scholars may add another interesting topic related to learning reform in post pandemic era to present *Analytical Chemistry* Juliette Lantz,Renée Cole,The POGIL Project,2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more Organic Chemistry Suzanne M. Ruder,The POGIL Project,2015-12-29 ORGANIC CHEMISTRY *Problems and Problem Solving in Chemistry Education* Georgios Tsaparlis,2021-05-17 Problem solving is central to the teaching and learning of chemistry at secondary tertiary and post tertiary levels of education opening to students and professional chemists alike a whole new world for analysing data looking for patterns and making deductions As an important higher order thinking skill problem solving also constitutes a major research field in science education Relevant education research is an ongoing process with recent developments occurring not only in the area of quantitative computational problems but also in qualitative problem solving The following situations are considered some general others with a focus on specific areas of chemistry quantitative problems qualitative reasoning metacognition and resource activation deconstructing the problem solving process an overview of the working memory hypothesis reasoning with the electron pushing formalism scaffolding

organic synthesis skills spectroscopy for structural characterization in organic chemistry enzyme kinetics problem solving in the academic chemistry laboratory chemistry problem solving in context team based active learning technology for molecular representations IR spectra simulation and computational quantum chemistry tools The book concludes with methodological and epistemological issues in problem solving research and other perspectives in problem solving in chemistry With a foreword by George Bodner *Surveillance, Prevention, and Control of Infectious Diseases* Muhammad E. H.

Chowdhury, Serkan Kiranyaz, 2024-06-30 This is a pioneering book that delves into the intersection of artificial intelligence AI and healthcare specifically focusing on the detection and prevention of infectious diseases Authored by leading experts in the field this book offers a comprehensive overview of the latest advancements challenges and applications of AI in combating infectious diseases With a unique emphasis on big data wearable data and computer vision the book presents original research works that showcase innovative approaches to leveraging AI for disease surveillance screening and severity stratification Through a combination of review chapters summarizing the current state of the field and novel applications of AI technology readers gain valuable insights into the potential of AI in addressing major life threatening infectious diseases identified by the UN Sustainable Development Goal 3 The book's structure ensures a balanced blend of theoretical foundations and practical applications making it accessible to both researchers and healthcare professionals By exploring cutting edge methodologies and case studies the book equips readers with the knowledge and tools needed to harness the power of AI in the fight against infectious diseases ultimately contributing to global efforts to improve public health outcomes With its interdisciplinary approach and focus on AI driven solutions *Surveillance prevention and control of infectious diseases* An AI perspective serves as an invaluable resource for researchers practitioners and policymakers seeking to stay abreast of the latest developments in this rapidly evolving field Whether exploring the role of wearable devices in disease monitoring or examining the potential of computer vision for early detection this book offers a comprehensive overview of AI applications that have the potential to revolutionize infectious disease management and prevention strategies Biblj české ,1601

The Secret Life of Viruses Mariona Tolosa Sisteré, Ellas Educac Collective, 2021-08-03 Discover the slightly disgusting super fascinating science of viruses in this colorful biology picture book for curious kids Packed with fascinating facts and science *The Secret Life of Viruses* teaches young readers all about What viruses are and where they live How vaccines work and how your body fights viruses Why pandemics happen How to stop the spread of viruses and stay healthy and more Viruses are all around us but it's not as scary as it sounds This is the perfect book to ease fears and empower kids with knowledge to keep themselves and others healthy Understanding Viruses Teri Shors, 2016-08-02 The Third Edition of best selling *Understanding Viruses* provides a strong comprehensive introduction to human viral diseases It provides a balanced approach to virology combining the molecular clinical and historical aspects making it the ideal text for undergraduate students majoring in biology microbiology medical technology or pre med **Virus** Marilyn J. Roossinck, 2016-09-20 An

essential illustrated guide to the 101 most fascinating viruses This stunningly illustrated book provides a rare window into the amazing varied and often beautiful world of viruses Contrary to popular belief not all viruses are bad for you In fact several are beneficial to their hosts and many are crucial to the health of our planet Virus offers an unprecedented look at 101 incredible microbes that infect all branches of life on Earth from humans and other animals to insects plants fungi and bacteria Featuring hundreds of breathtaking color images throughout this guide begins with a lively and informative introduction to virology Here readers can learn about the history of this unique science how viruses are named how their genes work how they copy and package themselves how they interact with their hosts how immune systems counteract viruses and how viruses travel from host to host The concise entries that follow highlight important or interesting facts about each virus Learn about the geographic origins of dengue and why old tires and unused pots help the virus to spread Read about Ebola Zika West Nile Frog virus 3 the Tulip breaking virus and many others how they were discovered what their hosts are how they are transmitted whether or not there is a vaccine and much more Each entry is easy to read and includes a graphic of the virus and nearly every entry features a colorized image of the virus as seen through the microscope Written by a leading authority this handsomely illustrated guide reveals the unseen wonders of the microbial world It will give you an entirely new appreciation for viruses

Viruses and Their Methods of Identification Festus D. Adu, 2011-03-04 God is light and within it there is no darkness This book was made with much love and thought The ideas stated have been thought about and collected over the period of a year When I started out my only motive was to make a book that would help in personal and global positive change Within good time the book became so much more it became a guideline to living in a new state and a new positive productive way Many people will find that most of the ideas in this book ring a truth My only wish is that people will pick up on this ringing vibration of truth and apply it to their lives Should you have any questions about The Power Within Positivity please send me an e mail at act_appalled@hotmail.com

Viruses: A Very Short Introduction Dorothy H. Crawford, 2011-07-28 Viruses are big news From pandemics such as HIV swine flu and SARS we are constantly being bombarded with information about new lethal infections In this Very Short Introduction Dorothy Crawford demonstrates how clever these entities really are From their discovery and the unravelling of their intricate structures Crawford demonstrates how these tiny parasites are by far the most abundant life forms on the planet With up to two billion of them in each litre of sea water viruses play a vital role in controlling the marine environment and are essential to the ocean's delicate ecosystem Analyzing the threat of emerging virus infections Crawford recounts stories of renowned killer viruses such as Ebola and rabies as well as the less known bat borne Nipah and Hendra viruses Pinpointing wild animals as the source of the most recent pandemics she discusses the reasons behind the present increase in potentially fatal infections as well as evidence suggesting that long term viruses can eventually lead to cancer By examining our lifestyle in the 21st century Crawford looks to the future to ask whether we can ever live in harmony with viruses and considers the ways in which we may need to adapt

to prevent emerging viruses with devastating consequences ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable *At the Edge of Life* Elaine Blume Wilson,1980

Understanding Viruses Teri Shors,2011-10-03 *Viruses in Our World* John Wood,2019-12-15 Viruses aren t like anything else you can see under a microscope Is a virus a living thing or something else Readers explore the answer to this question as they examine viruses learning what they look like and how they affect us As readers discover important facts about how viruses multiply and what sicknesses they cause they expand their knowledge of essential parts of science curricula including beginner biology concepts In addition to the informative narrative fun fact boxes vibrant full color photographs and a creative design hold readers interest as they learn more about this important topic Gastroenteritis Viruses Derek J. Chadwick,Jamie A. Goode,2001-06-29 This important book covers the structure and molecular biology of small round structured viruses SSRVs such as caliciviruses and astroviruses and the basic pathology of infection It provides readers with the knowledge needed to make progress in the prevention and treatment of these infections Readers will also find an overview of gastroentitis vaccines their structure and molecular biology as well as the basic pathology of infection epidemiology and surveillance Provides an interdisciplinary approach offering contributions from basic and clinical research Discusses the prevention and treatment of regimes Includes an overview of gastroentitis vaccines **A Planet of Viruses** Carl Zimmer,2021-03-29 Viruses are the smallest living things known to science and yet they hold the entire planet in their sway We re most familiar with the viruses that give us colds or Covid 19 But viruses also cause a vast range of other diseases including one disorder that makes people sprout branch like growths as if they were trees Viruses have been a part of our lives for so long that we are actually part virus the human genome contains more DNA from viruses than our own genes Meanwhile scientists are discovering viruses everywhere they look in the soil in the ocean even in deep caves miles underground A Planet of Viruses pulls back the veil on this hidden world It presents the latest research on how viruses hold sway over our lives and our biosphere how viruses helped give rise to the first life forms how viruses are producing new diseases how we can harness viruses for our own ends and how viruses will continue to control our fate for years to come

What Is a Virus? Heather C. Hudak,2020-08 A virus is a type of germ so small that it can only be seen with a microscope Viruses were discovered in the late 1880s Discover more in What Is a Virus part of the Understanding Viruses series

Killer Viruses Linley Erin Hall,2010-01-15 Discusses the threat of virus epidemics focusing on the possible scenarios both natural and due to terrorism and ways in which they can be handled and includes basic techniques for minimizing infection if a pandemic should occur **Origin and Evolution of Viruses** Esteban Domingo,Robert G. Webster,John F.

Holland,1999-06-25 Are infectious diseases caused by novel entities viruses that have rapidly evolved into more pathogenic

forms or viruses that have crossed species divides and become more virulent in their alternative host. These questions and how new diseases such as AIDS emerged have prompted renewed interest in the ways viruses originated and co-evolved with their hosts. *Origin and Evolution of Viruses* presents a full and clear description of general viral concepts and specific viral systems and provides an excellent foundation to our understanding of how viruses emerged. This unique and comprehensive work is essential reading for all researchers in virology, molecular biology and related areas as well as evolutionary biologists interested in phylogenetic approaches to molecular evolution. The reader is taken on an illumination journey in time and concepts from the first primitive replicons to their present day complex viral counterparts. Apart from the obvious interest as humans are potential hosts for these viruses, there is also a great deal of academic interest in the evolutionary aspects of this simple group of organisms since information can be gained about the origin of stains, species and evolutionary patterns that might be applicable to higher species. The book addresses Nature and evolution of early replicons, DNA and RNA viruses in both plants and animals, Viral origin, mutation and survival, Antigenic variation in influenza virus, Interplay between host evolution and DNA virus evolution, Emergence of viral induced diseases e.g. hepatitis, influenza and HIV.

Viruses: Intimate Invaders Van G. Wilson, 2022. This book guides through the fascinating world of viruses and makes readers enjoy science in an accessible way. Virologist and author Professor Van Wilson imparts knowledge about what viruses are, how they work and how much they impact life on Earth. The book equips the reader with the scientific basics behind virus function and presents the historic milestones of virus research and discovery. Well-known viruses such as HIV or Influenza are tackled alongside novel pathogens like coronavirus SARS-CoV-2. Professor Wilson explores where they come from and how they impact our society. Last but not least, the book provides exciting insights into how our immune system reacts to different viruses and how vaccines contribute to conquer pandemics. While scientifically informative, this book makes the field of virology understandable to a lay audience and encourages readers to further thinking. And more importantly, it conveys the wonder, beauty and mystery of these ubiquitous microscopic marvels. This book addresses anyone interested in understanding the principles of virology, viral diseases or the impact of viruses on human societies.

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