



The Effect of Web-Based Biology Learning Environment on Academic Performance: A Meta-analysis Study

Gülşah Sezen Vekli¹ · Muammer Çalik²

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Abstract

The purpose of this study was to investigate the effectiveness of web-based biology learning environment in improving academic performance via a meta-analysis. In looking for the studies on web-based biology learning environment, several keyword patterns from the abstracts (e.g., Pattern 1: web-based learning and biology education) were recruited in well-known databases (e.g., ERIC, EBSCO, Springer Link). Finally, 22 papers were apparent for the current meta-analysis examining the effect of web-based biology learning environment on academic performance. All statistical data from the studies were initially inserted into an Excel sheet and then imported into comprehensive meta-analysis (CMA) statistics software to calculate Hedges' g values. The overall effect-size of web-based biology learning environment pointed to a medium effect. Also, it was found that the educational level and type of experimental design, as moderator variables, did not positively affect the students' academic performance along with web-based biology learning environment. In light of the findings, it can be concluded that web-based biology learning environment is somewhat effective at improving the students' academic performance. The current study recommends that further studies should be undertaken to deepen the implementation processes of the studies with extreme values and explore what makes them unique.

Keywords Academic performance · Biology education · Educational level · Meta-analysis · Web-based learning environment

Introduction

Web-based learning environment, as a hypermedia centred instructional programme, enables researchers to build a meaningful learning environment by means of the attributes and resources of the World Wide Web (e.g., immediately updating, disseminating, and sharing data) (Khan, 1997; Rosenberg, 2001). Hence, it not only proposes to enhance and support student learning but also offers an alternative pedagogy for science learning (Khan, 1997; Morento et al., 2014). Further, it gives an opportunity for students to control information, access other relevant resources, communicate

with peers, and upload any related information to the database if necessary (Castro & Tumbay, 2021). Moreover, it establishes synchronous and/or asynchronous communication (e.g., e-mail, file transfer, discussion and news groups) between students and teachers through interactive web pages, and internet services such as chat rooms (Tüysüts & Aydın, 2007; Bell & Fedeman, 2013). Also, it helps teachers record and save the data about students' learning processes and outcomes. Because web-based learning, online learning, virtual laboratory, and e-learning generally use internet or webpages/sites (Miodusier et al., 2000; Santos & Prudente, 2022), the current paper prefers calling them web-based learning environment (WBLE) that facilitates student learning.

The WBLE also contains several challenges that need to be well-planned and handled before its usage. In view of Torum (2003), three main elements (infrastructure or logistics, educational and economic) directly influence the effectiveness of the WBLE or its achievement degree. That is, it requires a solid infrastructure system such as computer hardware and internet connection. Also, since it requests students to have some skills (e.g., the use of computer and internet) and affective features (e.g., self-regulated learning, self-confidence,

Muammer Çalik
muammer38@hotmail.com
Gülşah Sezen Vekli
gulshahsezen28@gmail.com

¹ Department of Mathematics and Science Education, Faculty of Education, Yozgat Bozok University, Yozgat 66000, Türkiye

² Department of Elementary Teacher Education, Fatih Faculty of Education, Trabzon University, Trabzon 61300, Türkiye

Web Based Biology

Julia Schneider



Web Based Biology:

Network-based Mathematical Modeling in Cell and Developmental Biology Susan Mertins ,Michael Blinov,2024-08-22 The vast amount of knowledge in Cell Signaling gathered through reductionist efforts and omics technology is poised to approach a Systems Biology understanding of precise representations of cell structure and function and predictions at multi scale levels despite the complexity Super resolution microscopy and single cell analysis are also providing opportunities to explore both spatial and temporal landscapes Notably many basic biological processes have been studied capturing mechanistic detail with the goal to understand cellular proliferation and differentiation gene regulation morphogenesis metabolism and cell cell communication Similarly at the intracellular level addressing functions such as self assembly phase separation and transport is leading to insights not readily understood as linear pathways Therefore network based mathematical modeling delineating dynamic biochemical reactions through ordinary and partial differential equations promises to discover emergent biological properties not heretofore expected

Web-Based Services: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2015-11-09 The recent explosion of digital media online networking and e commerce has generated great new opportunities for those Internet savvy individuals who see potential in new technologies and can turn those possibilities into reality It is vital for such forward thinking innovators to stay abreast of all the latest technologies Web Based Services Concepts Methodologies Tools and Applications provides readers with comprehensive coverage of some of the latest tools and technologies in the digital industry The chapters in this multi volume book describe a diverse range of applications and methodologies made possible in a world connected by the global network providing researchers computer scientists web developers and digital experts with the latest knowledge and developments in Internet technologies

Advances in Web-Based Learning - ICWL 2010 Xiangfeng Luo,Marc Spaniol,Lizhe Wang,Qing Li,Wolfgang Nejdl,Wu Zhang,2010-11-27 This book constitutes the refereed proceedings of the 9th International Conference on Web Based Learning ICWL 2010 held in Shanghai China in December 2010 The 36 revised full papers and 8 short papers presented were carefully reviewed and selected from 192 submissions They deal with topics such as e learning platforms and tools technology enhanced learning web based learning for oriental languages mobile situated e learning learning resource deployment organization and management design model and framework of e learning systems e learning metadata and standards collaborative learning and game based learning as well as practice and experience sharing and pedagogical Issues

The Internet for Molecular Biologists Clare E. Sansom,Robert M. Horton,2004-01-29 The last few decades of the twentieth century will be remembered for two technological revolutions that have already had a profound effect on millions of people s lives Thanks to communication technologies and particularly the Internet we now take immediate access to enormous quantities of information for granted And thanks to the new biology building on the genome projects some scientists are predicting that cures for the majority of known diseases could be readily

available within two generations These two revolutions are inextricably linked molecular biology depends on the ready availability of data and that needs computers and the Internet There are some surprising parallels between developments in the two technologies For example the publicly available gene sequence databases EMBL and GenBank are doubling in size approximately every eighteen months According to Moore's Law which has held since the invention of the silicon chip eighteen months is also the time frame in which computer power is expected to double This book aims to help the practitioners of the second revolution molecular biologists who are more at home at a laboratory bench than in front of a computer keyboard to use the technology of the first the Internet more effectively The Internet For Molecular Biologists A Practical Approach provides a broad introduction to using Internet based computing resources to support research in molecular biology After surveying the core databases and other online resources the focus shifts to tools and techniques for exploiting and authoring Internet distributed information Later chapters provide detailed examples of how technologies such as molecular visualisation VRML and XSLT can be applied to biological problems

Directory of Distance Learning Opportunities Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation

Biological Ontologies and Semantic Biology John Hancock, 2014-10-03

As the amount of biological information and its diversity accumulates massively there is a critical need to facilitate the integration of this data to allow new and unexpected conclusions to be drawn from it The Semantic Web is a new wave of web based technologies that allows the linking of data between diverse data sets via standardised data formats big data Semantic Biology is the application of semantic web technology in the biological domain including medical and health informatics The Special Topic encompasses papers in this very broad area including not only ontologies development and applications but also text mining data integration and data analysis making use of the technologies of the Semantic Web Ontologies are a critical requirement for such integration as they allow conclusions drawn about biological experiments or descriptions of biological entities to be understandable and integratable despite being contained in different databases and analysed by different software systems Ontologies are the standard structures used in biology and more broadly in computer science to hold standardized terminologies for particular domains of knowledge Ontologies consist of sets of standard terms which are defined and may have synonyms for ease of searching and to accommodate different usages by different

communities These terms are linked by standard relationships such as is_a an eye is_a sense organ or part_of an eye is part_of a head By linking terms in this way more detailed or granular terms can be linked to broader terms allowing computation to be carried out that takes these relationships into account Ubiquitous Learning Bill Cope, Mary Kalantzis, 2010-10-01 This collection seeks to define the emerging field of ubiquitous learning an educational paradigm made possible in part by the omnipresence of digital media supporting new modes of knowledge creation communication and access As new media empower practically anyone to produce and disseminate knowledge learning can now occur at any time and any place The essays in this volume present key concepts contextual factors and current practices in this new field Contributors are Simon J Appleford Patrick Berry Jack Brighton Bertram C Bruce Amber Buck Nicholas C Burbules Orville Vernon Burton Timothy Cash Bill Cope Alan Craig Lisa Bouillion Diaz Elizabeth M Delacruz Steve Downey Guy Garnett Steven E Gump Gail E Hawisher Caroline Haythornthwaite Cory Holding Wenhao David Huang Eric Jakobsson Tristan E Johnson Mary Kalantzis Samuel Kamin Karrie G Karahalios Joycelyn Landrum Brown Hannah Lee Faye L Lesht Maria Lovett Cheryl McFadden Robert E McGrath James D Myers Christa Olson James Onderdonk Michael A Peters Evangeline S Pianfetti Paul Prior Fazal Rizvi Mei Li Shih Janine Solberg Joseph Squier Kona Taylor Sharon Tettegah Michael Twidale Edee Norman Wiziecki and Hanna Zhong **Encyclopedia of Bioinformatics and Computational Biology**, 2018-08-21 Encyclopedia of Bioinformatics and Computational Biology ABC of Bioinformatics Three Volume Set combines elements of computer science information technology mathematics statistics and biotechnology providing the methodology and in silico solutions to mine biological data and processes The book covers Theory Topics and Applications with a special focus on Integrative omics and Systems Biology The theoretical methodological underpinnings of BCB including phylogeny are covered as are more current areas of focus such as translational bioinformatics cheminformatics and environmental informatics Finally Applications provide guidance for commonly asked questions This major reference work spans basic and cutting edge methodologies authored by leaders in the field providing an invaluable resource for students scientists professionals in research institutes and a broad swath of researchers in biotechnology and the biomedical and pharmaceutical industries Brings together information from computer science information technology mathematics statistics and biotechnology Written and reviewed by leading experts in the field providing a unique and authoritative resource Focuses on the main theoretical and methodological concepts before expanding on specific topics and applications Includes interactive images multimedia tools and crosslinking to further resources and databases Computer-Aided Biodesign Across Scales Thomas E. Gorochowski, Fabio Parmeggiani, Jonathan Karr, Boyan Yordanov, 2021-08-05 **Systems Biology** Edda Klipp, Wolfram Liebermeister, Christoph Wierling, Axel Kowald, 2016-03-28 This advanced textbook is tailored for an introductory course in Systems Biology and is well suited for biologists as well as engineers and computer scientists It comes with student friendly reading lists and a companion website featuring a short exam prep version of the book and educational modeling programs

The text is written in an easily accessible style and includes numerous worked examples and study questions in each chapter. For this edition a section on medical systems biology has been included.

Systems Biology and Omics Approaches to Understand Complex Diseases Biology Amit Kumar Yadav, Sanjay Kumar Banerjee, Kumardeep Chaudhary, Bhabatosh Das, 2022-05-03

Online Teaching Competency Deanie French, 2003 Blended Learning is designed for individuals who want to improve current skills or develop online teaching skills gradually as they begin to add web skills and resources to enhance their current teaching repertoire. Many leaders from a variety of backgrounds have contributed chapters to make this book a valuable resource. The depth and range of experts include but are not limited to Dr Deanie French whose publications include Web Accessibility Applications Seniors Healthcare and Higher Education Institute 2002 and Internet Based Learning An Introduction and Framework for Higher Education and Business Stylus Publishing 99 Dr Barbara Lyman author of Holistic Learning Model for On line Adults a chapter in Internet Based Learning Dr Bruce Landon senior advisor with the Western Cooperative for Educational Telecommunications WCET Dr Gene Martin Director of Extended and Distance Learning at Southwest Texas State University He has performed an active role in the advancement of technology education in the United States and has served as Chair for the National Commission for Technology Education Dr Karen Middleton senior project coordinator for the Western Cooperative managing a Hewlett funded project E learning Technologies Web Resource for Comparisons Dr Cyndi Rowland Director of the national project Keeping Web Accessibility in Mind WebAIM Dr Phil Vardiman human resource development expert with fortune 500 companies and Leo Valdes Managing Director of Vision Office a training and web consulting firm based in Vancouver British Columbia Canada He has delivered presentations related to Internet accessibility to the United Nations and representatives of South East Asia Latin America the Caribbean and Central and Eastern Europe For more information please visit www.e-linkagesglobal.com

Proceedings of the 1999 International Conference on Web-Based Modeling and Simulation Agostino G. Bruzzone, Adelinde Uhrmacher, Ernest Henry Page, 1999

Systems Medicine, 2020-08-24 Technological advances in generated molecular and cell biological data are transforming biomedical research. Sequencing multi omics and imaging technologies are likely to have deep impact on the future of medical practice. In parallel to technological developments methodologies to gather integrate visualize and analyze heterogeneous and large scale data sets are needed to develop new approaches for diagnosis prognosis and therapy. Systems Medicine Integrative Qualitative and Computational Approaches is an innovative interdisciplinary and integrative approach that extends the concept of systems biology and the unprecedented insights that computational methods and mathematical modeling offer of the interactions and network behavior of complex biological systems to novel clinically relevant applications for the design of more successful prognostic diagnostic and therapeutic approaches. This 3 volume work features 132 entries from renowned experts in the fields and covers the tools methods algorithms and data analysis workflows used for integrating and analyzing multi dimensional data routinely generated in clinical settings with the aim of

providing medical practitioners with robust clinical decision support systems. Importantly the work delves into the applications of systems medicine in areas such as tumor systems biology, metabolic and cardiovascular diseases as well as immunology and infectious diseases amongst others. This is a fundamental resource for biomedical students and researchers as well as medical practitioners who need to adopt advances in computational tools and methods into the clinical practice. Encyclopedic coverage, one stop resource for access to information written by world leading scholars in the field of Systems Biology and Systems Medicine with easy cross referencing of related articles to promote understanding and further research. Authoritative: the whole work is authored and edited by recognized experts in the field with a range of different expertise ensuring a high quality standard. Digitally innovative: Hyperlinked references and further readings, cross references and diagrams, images will allow readers to easily navigate a wealth of information.

Computational Systems Biology

Andres Kriete, Roland Eils, 2013-11-26. This comprehensively revised second edition of *Computational Systems Biology* discusses the experimental and theoretical foundations of the function of biological systems at the molecular, cellular or organismal level over temporal and spatial scales as systems biology advances to provide clinical solutions to complex medical problems. In particular the work focuses on the engineering of biological systems and network modeling. Logical information flow aids understanding of basic building blocks of life through disease phenotypes. Evolved principles gives insight into underlying organizational principles of biological organizations and systems processes governing functions such as adaptation or response patterns. Coverage of technical tools and systems helps researchers to understand and resolve specific systems biology problems using advanced computation. Multi scale modeling on disparate scales aids researchers understanding of dependencies and constraints of spatio temporal relationships fundamental to biological organization and function.

Biosciences on the Internet Georges Dussart, 2003-01-24. Most biological science departments run general skills courses for their first years which include some combination of a range of topics from lab skills, writing and presentation to basic maths, statistics and IT. The IT section of these courses tend to include some internet coverage but the trend towards learning how to find, access, manage and correctly cite online resources is rapidly becoming a required necessity for every student throughout their undergraduate career. At present there are no internet guides that specifically target this audience despite the increasing importance placed on the use of online resources and the difficulties students encounter trying to make effective use of the information that is available. There are a lot of resources on the internet and students especially first years can feel swamped. As well as needing a guide, students need support to help them identify good, reliable information on the net. They also need guidance in administering the organisation of their searches and the materials that they discover on the internet. This simple guide will help bioscience students to access the information they need on the internet and to make the most efficient and effective use of their time online.

Post-Genomic Cardiology José

Marín-García, 2014-05-09. In this second edition of *Post Genomic Cardiology* developing and new technologies such as

translational genomics next generation sequencing NGS bioinformatics and systems biology in molecular cardiology are assessed in light of their therapeutic potential As new methods of mutation screening emerge both for the genome and for the epigenome comprehensive understanding of the many mutations that underlie cardiovascular diseases and adverse drug reactions is within our reach This book written by respected cardiologist Jos Mar n Garc a features discussion on the Hap Map the largest international effort to date aiming to define the differences between our individual genomes This unique reference further reviews and investigates genome sequences from our evolutionary relatives that could help us decipher the signals of genes and offers a comprehensive and critical evaluation of regulatory elements from the complicated network of the background DNA Offers updated discussion of cutting edge molecular techniques including new genomic sequencing NGS Hap Map bioinformatics systems biology approaches Analyzes mitochondria dynamics and their role in cardiac dysfunction up to date analysis of cardio protection and cardio metabolic syndrome Presents recent translational studies gene therapy transplantation of stem cells and pharmacological treatments in CVDs

Math and Bio 2010 Lynn Arthur Steen, 2005 Math and bio 2010 grew out of Meeting the Challenges Education across the Biological Mathematical and Computer Sciences a joint project of the Mathematical Association of America MAA the National Science Foundation Division of Undergraduate Education NSF DUE the National Institute of General Medical Sciences NIGMS the American Association for the Advancement of Science AAAS and the American Society for Microbiology ASM Foreword p vi

Genomics and Systems Biology of Mammalian Cell Culture Wei Shou Hu, An-Ping Zeng, 2012-03-31 Transcriptome Analysis by Frank Stahl Bernd Hitzmann Kai Mutz Daniel Landgrebe Miriam L bbecke Cornelia Kasper Johanna Walter und Thomas Scheper Transcriptome Data Analysis for Cell Culture Processes by Marlene Castro Melchor Huong Le und Wei Shou Hu Modeling Metabolic Networks for Mammalian Cell Systems General Considerations Modeling Strategies and Available Tools by Ziomara P Gerdtzen Metabolic Flux Analysis in Systems Biology of Mammalian Cells by Jens Niklas und Elmar Heinzle Advancing Biopharmaceutical Process Development by System Level Data Analysis and Integration of Omics Data by Jochen Schaub Christoph Clemens Hitto Kaufmann und Torsten W Schulz Protein Glycosylation and Its Impact on Biotechnology by Markus Berger Matthias Kaup und V ronique Blanchard Protein Glycosylation Control in Mammalian Cell Culture Past Precedents and Contemporary Prospects by Patrick Hossler Modeling of Intracellular Transport and Compartmentation by Uwe Jandt und An Ping Zeng Genetic Aspects of Cell Line Development from a Synthetic Biology Perspective by L Botezatu S Sievers L Gama Norton R Schucht H Hauser und D Wirth

Transactions on Computational Systems Biology VIII Corrado Priami, 2007-10-28 The LNCS journal Transactions on Computational Systems Biology is devoted to inter and multidisciplinary research in the fields of computer science and life sciences It supports a paradigmatic shift in the techniques from computer and information science to cope with the new challenges arising from the systems oriented point of view of biological phenomena The six papers selected for this special issue cover a broad range of topics

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