



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

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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 (Tüysüz & 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,

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# Web Based Biology

**Dinesh Kumar Saini, Chittaranjan Kole**



## 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 *Integrated Web-based Analysis of High-dimensional Biological Information* Christopher Bowron Kingsley,2005 Recent advances in high throughput biological methods allow researchers to generate enormous amounts of data from a single experiment In order to extract meaningful conclusions from this tidal wave of data it will be necessary to develop analytical methods of sufficient power and utility It is particularly important that biologists themselves perform many of these analyses such that their background knowledge of the experimental system under study can be used to interpret results and direct further inquiries 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 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

### **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

### Current Omics

Advancement in Plant Abiotic Stress Biology Deepesh Bhatt, Manoj Nath, Saurabh Badoni, Rohit Joshi, 2024-05-07 Applied Biotechnology Strategies to Combat Plant Abiotic Stress investigates the causal molecular factors underlying the respective mechanisms orchestrated by plants to help alleviate abiotic stress in which Although knowledge of abiotic stresses in crop plants and high throughput tools and biotechnologies is available in this book a systematic effort has been made for integrating omics interventions across major sorts of abiotic stresses with special emphasis to major food crops infused with detailed mechanistic understanding which would furthermore help contribute in dissecting the interdisciplinary areas of omics driven plant abiotic stress biology in a much better manner In 32 chapters Applied Biotechnology Strategies to Combat Plant Abiotic Stress focuses on the integration of multi OMICS biotechnologies in deciphering molecular intricacies of plant abiotic stress namely drought salt cold heat heavy metals in major C3 and C4 food crops Together with this the book provides updated knowledge of common and unique set of molecular intricacies playing a vital role in coping up severe abiotic stresses in plants deploying multi OMICS approaches This book is a valuable resource for early researchers senior

academicians and scientists in the field of biotechnology biochemistry molecular biology researchers in agriculture and crops for human foods and all those who wish to broaden their knowledge in the allied field Describes biotechnological strategies to combat plant abiotic stress Covers the latest evidence based multipronged approaches in understanding omics perspective of stress tolerance Focuses on the integration of multi OMICS technologies in deciphering molecular intricacies of plant abiotic stress

**Applied Statistics for Network Biology** Matthias Dehmer, Frank Emmert-Streib, Armin Graber, Armino Salvador, 2011-04-08 The book introduces to the reader a number of cutting edge statistical methods which can be used for the analysis of genomic proteomic and metabolomic data sets In particular in the field of systems biology researchers are trying to analyze as many data as possible in a given biological system such as a cell or an organ The appropriate statistical evaluation of these large scale data is critical for the correct interpretation and different experimental approaches require different approaches for the statistical analysis of these data This book is written by biostatisticians and mathematicians but aimed as a valuable guide for the experimental researcher as well computational biologists who often lack an appropriate background in statistical analysis

**Omics and System Biology Approaches for Delivering Better Cereals** Dinesh Kumar Saini, Chittaranjan Koley, 2024-11-08 Cereals like wheat rice maize and barley have long been the dominant crops in agriculture providing a significant portion of our food supply Plant breeders and geneticists have always been interested in improving the yield and quality of cereals The primary challenges in cereal breeding lie in adapting to climate change and enhancing yield and stress tolerance In recent years omics approaches such as genomics transcriptomics proteomics and metabolomics have emerged as valuable tools to understand the genetic and molecular basis of cereal development under optimum and stress conditions However studying individual datasets for different cereals has limited our comprehensive understanding of complex traits and biological networks To overcome this limitation a systems biology approach is necessary Systems biology integrates multiple omics data modeling and cell activity prediction to gain a holistic understanding of biological processes By considering the whole system and its interactions rather than isolated components researchers can develop predictive models and even re engineer cells In the context of cereal improvement systems biology can play a crucial role in identifying and introducing desirable traits such as yield quality and stress tolerance It may help researchers uncover the molecular underpinnings of complex traits and offer insights for enhancing cereals on a national and international scale The book explores available omics resources the integration of multi omics data and systems biology methods focusing on their applications in cereals breeding and research It highlights current and innovative strategies to understand complex traits improve yield and enhance resistance to biotic and abiotic stresses It also addresses the challenges and opportunities associated with modeling multi omics data and analyzing systems level information By leveraging systems biology and integrated omics research this book aims to redefine the future research agenda for cereal improvement

Synthetic Biology Huimin Zhao, 2013-03-21 Synthetic Biology provides a framework to examine key enabling components in the

emerging area of synthetic biology Chapters contributed by leaders in the field address tools and methodologies developed for engineering biological systems at many levels including molecular pathway network whole cell and multi cell levels The book highlights exciting practical applications of synthetic biology such as microbial production of biofuels and drugs artificial cells synthetic viruses and artificial photosynthesis The roles of computers and computational design are discussed as well as future prospects in the field including cell free synthetic biology and engineering synthetic ecosystems Synthetic biology is the design and construction of new biological entities such as enzymes genetic circuits and cells or the redesign of existing biological systems It builds on the advances in molecular cell and systems biology and seeks to transform biology in the same way that synthesis transformed chemistry and integrated circuit design transformed computing The element that distinguishes synthetic biology from traditional molecular and cellular biology is the focus on the design and construction of core components that can be modeled understood and tuned to meet specific performance criteria and the assembly of these smaller parts and devices into larger integrated systems that solve specific biotechnology problems Includes contributions from leaders in the field presents examples of ambitious synthetic biology efforts including creation of artificial cells from scratch cell free synthesis of chemicals fuels and proteins engineering of artificial photosynthesis for biofuels production and creation of unnatural living organisms Describes the latest state of the art tools developed for low cost synthesis of ever increasing sizes of DNA and efficient modification of proteins pathways and genomes Highlights key technologies for analyzing biological systems at the genomic proteomic and metabolomic levels which are especially valuable in pathway whole cell and multi cell applications Details mathematical modeling tools and computational tools which can dramatically increase the speed of the design process as well as reduce the cost of development

**Biological Network Analysis** Pietro Hiram Guzzi, Swarup Roy, 2020-05-12 Biological Network Analysis Trends Approaches Graph Theory and Algorithms considers three major biological networks including Gene Regulatory Networks GRN Protein Protein Interaction Networks PPIN and Human Brain Connectomes The book's authors discuss various graph theoretic and data analytics approaches used to analyze these networks with respect to available tools technologies standards algorithms and databases for generating representing and analyzing graphical data As a wide variety of algorithms have been developed to analyze and compare networks this book is a timely resource

**Springer Handbook of Bio-/Neuro-Informatics** Nikola Kasabov, 2013-11-30 The Springer Handbook of Bio Neuro Informatics is the first published book in one volume that explains together the basics and the state of the art of two major science disciplines in their interaction and mutual relationship namely information sciences bioinformatics and neuroinformatics Bioinformatics is the area of science which is concerned with the information processes in biology and the development and applications of methods tools and systems for storing and processing of biological information thus facilitating new knowledge discovery Neuroinformatics is the area of science which is concerned with the information processes in biology and the development and applications of methods tools and systems for storing and

processing of biological information thus facilitating new knowledge discovery The text contains 62 chapters organized in 12 parts 6 of them covering topics from information science and bioinformatics and 6 cover topics from information science and neuroinformatics Each chapter consists of three main sections introduction to the subject area presentation of methods and advanced and future developments The Springer Handbook of Bio Neuroinformatics can be used as both a textbook and as a reference for postgraduate study and advanced research in these areas The target audience includes students scientists and practitioners from the areas of information biological and neurosciences With Forewords by Shun ichi Amari of the Brain Science Institute RIKEN Saitama and Karlheinz Meier of the University of Heidelberg Kirchhoff Institute of Physics and Co Director of the Human Brain Project

**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

**Recent Advances in Biological Network Analysis** Byung-Jun Yoon, Xiaoning Qian, 2021-01-13 This book reviews recent advances in the emerging field of computational network biology with special emphasis on comparative network analysis and network module detection The chapters in this volume are contributed by leading international researchers in computational network biology and offer in depth insight on the latest techniques in network alignment network clustering and network module detection Chapters discuss the advantages of the respective techniques and present the current challenges and open problems in the field Recent Advances in Biological Network Analysis Comparative Network Analysis and Network Module Detection will serve as a great resource for graduate students academics and researchers who are currently working in areas relevant to computational network biology or wish to learn more about the field Data scientists whose work involves the analysis of graphs networks and other types of data with

topological structure or relations can also benefit from the book's insights

**Insect Conservation Biology** Alan J. A. Stewart, T. R. New, O. T. Lewis, 2007-01-01 These proceedings contain papers on insect conservation biology that are classified under 3 themes 1 the current status of insect conservation and major avenues for progress and hindrances 6 papers 2 insects as model organisms in conservation biology 6 papers and 3 future directions in insect conservation biology 6 papers

**Bioinformatics: Applications of Computational Biology in Life Sciences** Michael Roberts, Embark on a journey into the fascinating realm of bioinformatics with Bioinformatics Exploring Computational Biology in Life Sciences This comprehensive book delves into the applications of computational techniques in understanding biological systems from sequence analysis and genome assembly to structural biology and systems biology Whether you're a researcher student or industry professional each chapter provides in depth insights methodologies and real world examples that highlight the transformative impact of bioinformatics on modern life sciences Navigate the complexities of biological data analysis and discover how computational biology is shaping the future of healthcare agriculture and beyond

*Handbook of the Biology of Aging* Edward J. Masoro, Steven N. Austad, 2011-04-28 The Handbook of the Biology of Aging Sixth Edition provides a comprehensive overview of the latest research findings in the biology of aging Intended as a summary for researchers it is also adopted as a high level textbook for graduate and upper level undergraduate courses The Sixth Edition is 20% larger than the Fifth Edition with 21 chapters summarizing the latest findings in research on the biology of aging The content of the work is virtually 100% new Though a selected few topics are similar to the Fifth Edition these chapters are authored by new contributors with new information The majority of the chapters are completely new in both content and authorship The Sixth Edition places greater emphasis and coverage on competing and complementary theories of aging broadening the discussion of conceptual issues Greater coverage of techniques used to study biological issues of aging include computer modeling gene profiling and demographic analyses Coverage of research on *Drosophila* is expanded from one chapter to four New chapters on mammalian models discuss aging in relation to skeletal muscles body fat and carbohydrate metabolism growth hormone and the human female reproductive system Additional new chapters summarize exciting research on stem cells and cancer dietary restriction and whether age related diseases are an integral part of aging The Handbook of the Biology of Aging Sixth Edition is part of the Handbooks on Aging series including Handbook of the Psychology of Aging and Handbook of Aging and the Social Sciences also in their 6th editions

**TEACHING OF BIOLOGICAL SCIENCES (Intended for Teaching of Life Sciences, Physics, Chemistry and General Science)** AHMAD, JASIM, 2011-11-30 Students of today especially at the school level perceive science as a collection of facts to be memorized whereas in reality it is constantly changing as new information accumulates and new techniques develop every day The objective of teaching is not restricted to imparting scientific information to students but also to help them apply these principles in their daily lives This comprehensive book written in an easy to understand language covers the entire syllabus of teaching of Biological Sciences in particular and



Science Teaching in general In so doing it takes into account the needs of teacher trainees and in service teachers Organized into 20 chapters the book discusses in detail the many facets and aspects of Biology Science Teaching The text introduces modern approaches to teaching with the aim of improving student learning throughout their course It emphasizes the need for pedagogical analysis vis vis subject teaching constructive approach laboratory work Continuous and Comprehensive Evaluation CCE In addition the text highlights the difference between microteaching and simulated teaching It also shows how e learning and co curricular activities can be successfully integrated in biological sciences teaching NEW TO THIS EDITION Inclusion of one chapter on Concept Mapping in Biology Teaching This chapter advocates the popularized constructivist approach of teaching learning process Besides some figures tables and flow charts are also added to make the book more useful to the readers KEY FEATURES Analyses Constructivism versus Behaviourism Includes self explanatory model lesson plan Discusses Information and Communication Technology ICT in the context of Biology Science teaching learning Suggests how apparatus and devices can be secured and cultured and used in classroom demonstrations and student projects Primarily intended as a text for students of B Ed pursuing course on Teaching of Biological Sciences Life Sciences the book should prove equally useful for B Ed students following courses on Teaching of Physical Sciences In addition diploma students of Elementary Teacher Education ETE having a paper on Teaching of EVS General Science and M Ed and M A Education students with an optional elective paper on Science Education would find the book extremely useful

**Biological Data Integration** Christine Froidevaux, Marie-Laure Martin-Magniette, Guillem Rigau, 2024-01-04 The study of biological data is constantly undergoing profound changes Firstly the volume of data available has increased considerably due to new high throughput techniques used for experiments Secondly the remarkable progress in both computational and statistical analysis methods and infrastructures has made it possible to process these voluminous data The resulting challenge concerns our ability to integrate these data i e to use their complementary nature effectively in the hope of advancing our knowledge Therefore a major challenge in studying biology today is integrating data for the most exhaustive analysis possible Biological Data Integration deals in a pedagogical way with research work in biological data science examining both computational approaches to data integration and statistical approaches to the integration of omics data

**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 *Handbook of Research on Systems Biology Applications in Medicine* Daskalaki, Andriani, 2008-11-30 This book highlights the use of systems approaches including genomic cellular proteomic metabolomic bioinformatics molecular and biochemical to address fundamental questions in complex diseases like cancer diabetes but also in ageing

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