

Lab # : Virtual Lab – Population Biology

Problem How does competition affect population growth?

Background (Read the background in order to answer the Pre-Lab Questions that follow)

The genus *Paramecium* includes several species of one-celled protists that live in freshwater. When there is enough food, water, and space, populations of these species grow rapidly and follow a pattern known as exponential growth, in which the total number of potentially reproducing organisms increases with each generation. However, populations of any organism will not increase indefinitely. Eventually, limitations on food, water, and other resources will cause the population to stop increasing.



When a population arrives at the point where its size remains stable, it has reached the *carrying capacity* of the environment. The carrying capacity is the greatest number of individuals a given environment can sustain. Competition for resources among members of a population (*intraspecific competition*) places limits on population size.

Competition for resources among members of two or more different species (*interspecific competition*) also affects population size. In a classic series of experiments in the 1930s, a Russian ecologist, G.F. Gause, formulated his *principle of competitive exclusion*. This principle states that if two species are competing for the same resource, the species with a more rapid growth rate will outcompete the other. In other words, no two species can occupy the same niche.

In competing populations of organisms, genetic variations that reduce competition are favored through natural selection. Suppose two species (A and B) compete for the same food source. Individuals of species A can also use another food source, which reduces the competition over the food source needed by species B. The individuals of species A that can use another food source survive because they do not have to compete with individuals of species B for that food. In nature, organisms frequently invade unoccupied habitats simply to avoid intense competition. Once the organism is in a new habitat, any variations that allow it to use the available resources will tend to be perpetuated through the population. In this way, the genetic makeup of the population may slowly change, and the species will become adapted to a new niche.

Objectives

- Conduct an experiment on two species of the protozoan *Paramecium*, growing each alone and then growing them together.
- Graph and compare growth curves of the populations of each species, alone and together.
- Show how competition for natural resources in the environment can affect population growth.
- Explain how availability of resources, such as food, can be limiting factors for populations.

Materials: cultures of *Paramecium caudatum* and *P. Aurelia*

Procedure: See Virtual Lab at web site http://glencoe.mcgraw-hill.com/sites/dl/free/0078757134/383928/BL_04.html

Population Biology Virtual Lab Answer

SJ Ball



Population Biology Virtual Lab Answer:

E-Learning as a Socio-Cultural System: A Multidimensional Analysis Zuzevičiūtė, Vaiva, Butrimė, Edita, Vitkutė-Adžgauskienė, Daiva, Vladimirovich Fomin, Vladislav, Kikis-Papadakis, Kathy, 2014-06-30 Information and communication technologies play a crucial role in a number of modern industries Among these education has perhaps seen the greatest increases in efficiency and availability through Internet based technologies E Learning as a Socio Cultural System A Multidimensional Analysis provides readers with a critical examination of the theories models and best practices in online education from a social perspective evaluating blended distance and mobile learning systems with a focus on the interactions of their practitioners Within the pages of this volume teachers students administrators policy makers and IT professionals will all find valuable advice and enriching personal experiences in the field of online education **K-12 STEM Education: Breakthroughs in Research and Practice** Management Association, Information Resources, 2017-10-31 Education is vital to the progression and sustainability of society By developing effective learning programs this creates numerous impacts and benefits for future generations to come K 12 STEM Education Breakthroughs in Research and Practice is a pivotal source of academic material on the latest trends techniques technological tools and scholarly perspectives on STEM education in K 12 learning environments Including a range of pertinent topics such as instructional design online learning and educational technologies this book is an ideal reference source for teachers teacher educators professionals students researchers and practitioners interested in the latest developments in K 12 STEM education

Revolutionizing K-12 Blended Learning through the i²Flex Classroom Model Avgerinou, Maria D., Gialamas, Stefanos P., 2016-06-20 Blended learning has gained significant attention recently by educational leaders practitioners and researchers i Flex a variation of blended learning is based on the premise that certain non interactive teaching activities such as lecturing can take place by students without teachers direct involvement Classroom time can then be used for educational activities that fully exploit teacher student and student student interactions allowing for meaningful personalized feedback and scaffolding on demand Revolutionizing K 12 Blended Learning through the i Flex Classroom Model presents a well rounded discussion on the i Flex model highlighting methods for K 12 course design delivery and evaluation in addition to teacher performance assessment in a blended i Flex environment Emphasizing new methods for improving the classroom and learning experience in addition to preparing students for higher education and careers this publication is an essential reference source for pre service and in service teachers researchers administrators and educational technology developers

Sustainable Health and Long-Term Care Solutions for an Aging Population Fong, Ben, Ng, Artie, Yuen, Peter, 2017-06-30 Lasting healthcare for the entire population specifically the elderly has become a main priority in society It is imperative to find ways to boost the longevity of healthcare services for all users Sustainable Health and Long Term Care Solutions for an Aging Population is a pivotal reference source featuring the latest scholarly research on issues pertinent to

health cost and finding effective ways of financing healthcare for the elderly Including coverage on a number of topics such as provider accreditation corporate social responsibility and data management this book is ideally designed for policy makers academicians researchers and advanced level students seeking current research on the innovative planning and development of healthcare

The SAGE Encyclopedia of Online Education Steven L. Danver, 2016-04-15 Online education both by for profit institutions and within traditional universities has seen recent tremendous growth and appeal but online education has many aspects that are not well understood The SAGE Encyclopedia of Online Education provides a thorough and engaging reference on all aspects of this field from the theoretical dimensions of teaching online to the technological aspects of implementing online courses with a central focus on the effective education of students Key topics explored through over 350 entries include Technology used in the online classroom Institutions that have contributed to the growth of online education Pedagogical basis and strategies of online education Effectiveness and assessment Different types of online education and best practices The changing role of online education in the global education system

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VV., 2012-07-25T00:00:00+02:00 RICERCA Jet momentum dependence of jet quenching in PbPb collisions at SNN 2 76 TeV The CMS Collaboration Modeling the metaverse a theoretical model of effective team collaboration in 3D virtual environments Sarah van der Land Alexander P Schouten Bart van den Hooff Frans Feldberg The capture of moving object in video image Weina Fu Zhiwen Xu Shuai Liu Xin Wang Hongchang Ke Visual metaphors in virtual worlds The example of NANEC 2010 11 Dolors Capdet Von Neuromancer zu Second Life Raumsimulationen im Cyberspace Steffen Kr mer APPLICAZIONI APPLICAZIONI Sensor models and localization algorithms for sensor networks based on received signal strength Fredrik Gustafsson Fredrik Gunnarsson David Lindgren Interactive lab to learn radio astronomy microwave antenna engineering at the Technical University of Cartagena Jos Luis Gomez Tornero David Caete Rebenaque Fernando Daniel Quesada Pereira Alejandro lvarez Melc n

[The Dynamics of Physiologically Structured Populations](#) Johan A. Metz, Odo Diekmann, 2014-03-11

Overcoming Challenges in Online Learning Areej ElSayary, Abdulrasheed Olowoselu, 2023-03-03 This book examines four distinct areas of education that suffered as a result of the COVID 19 pandemic in Asian and African regions and tackles the challenges and barriers that came as a result of the shift to online learning Presenting perspectives from China Malaysia Nigeria and the UAE chapters frame research within the context of innovation experiences to explore transformative learning theory and set out the ways in which leaders educators students and parents adapted to learning during the pandemic Foregrounding four central topics challenges and barriers teaching and learning assessment educational technology and interactive learning environments the volume provides globally relevant findings and implications for the effects of the pandemic on learning in these regions and furthers the field of educational technology more broadly Topics covered range from teaching and leading in the online learning environment to educational technology and the interactive learning space Sharing innovative experiences to aid progression and share best practice for

online learning moving forward the book will be highly relevant to researchers academics and students in the fields of higher education online and eLearning and technology in education **Artificial Intelligence in Education** C.-K. Looi,G. McCalla,B. Bredeweg,2005-07-14 The field of Artificial Intelligence in Education includes research and researchers from many areas of technology and social science This study aims to open opportunities for the cross fertilization of information and ideas from researchers in the many fields that make up this interdisciplinary research area **Carolina Science and Math** Carolina Biological Supply Company,2003 **Forensic Biology** Max M. Houck,2015-01-08 Forensic Biology provides coordinated expert content from world renowned leading authorities in forensic biology Covering the range of forensic biology this volume in the Advanced Forensic Science Series provides up to date scientific learning on DNA analysis Technical information written with the degreed professional in mind brings established methods together with newer approaches to build a comprehensive knowledge base for the student and practitioner alike Like each volume in the Advanced Forensic Science Series review and discussion questions allow the text to be used in classrooms training programs and numerous other applications Sections on fundamentals of forensic science history safety and professional issues provide context and consistency in support of the forensic enterprise Forensic Biology sets a new standard for reference and learning texts in monmodern forensic science Advanced articles written by international forensic biology experts Covers the range of forensic biology including methods and interpretation Includes entries on history safety and professional issues Useful as a professional reference advanced textbook or training review *Handbook of Evolutionary Research in Archaeology* Anna Marie Prentiss,2019-06-03 Evolutionary Research in Archaeology seeks to provide a comprehensive overview of contemporary evolutionary research in archaeology The book will provide a single source for introduction and overview of basic and advanced evolutionary concepts and research programs in archaeology Content will be organized around four areas of critical research including microevolutionary and macroevolutionary process human ecology studies evolutionary ecology demography and niche construction and evolutionary cognitive archaeology Authors of individual chapters will address theoretical foundations history of research contemporary contributions and debates and implications for the future for their respective topics As appropriate authors present or discuss short empirical case studies to illustrate key arguments

Learning, Problem Solving, and Mindtools J. Michael Spector,Barbara B. Lockee,Sharon Smaldino,Mary Herring,2013-04-12 Learning Problem Solving and Mindtools is inspired by the substantial body of learning research by David H Jonassen in the areas of mind tools and problem solving The focus of the volume is on educational technology especially with regard to how new technologies have facilitated and supported problem solving and critical thinking Each chapter focuses on a particular aspect of learning with technology and elaborates the implications for the design and implementation of learning environments and activities aimed at improving the conceptualization of problems reasoning and higher order thinking and solving challenging problems This collection of scholarly essays provides a highly engaging

treatment of using tools and technologies to improve problem solving multiple perspectives on integrating educational technology to support learning in complex and challenging problem solving domains guidance for the design of instruction to support problem solving a systemic account of the relationships between mental models instructional models and assessment models and a look into the future of educational technology research and practice Handbook of STEM Faculty Development Sandra M. Linder, Cindy M. Lee, Shannon K Stefl, Karen A. High, 2022-12-01 Faculty in the science technology engineering and mathematics STEM disciplines face intensifying pressures in the 21st century including multiple roles as educator researcher and entrepreneur In addition to continuously increasing teaching and service expectations faculty are engaged in substantive research that requires securing external funding mentoring other faculty and graduate students and disseminating this work in a broad range of scholarly outlets Societal needs of their expertise include discovery innovation and workforce development It is critical to provide STEM faculty with the professional development to support their complex roles and to base this development on evidence derived from research This edited handbook provides STEM stakeholders with an opportunity to share studies and or experiences that explore STEM faculty development FD in higher education settings More specifically we include work that examines faculty development planning techniques models experiences and outcomes focused on supporting the teaching research service and leadership responsibilities of STEM faculty The Handbook is suited for researchers and practitioners in STEM STEM Education Mathematics Science Technology and Engineering disciplines It is also suited towards faculty developers higher education administrators funding agencies industry leaders and the STEM community at large This handbook is organized around three constructs INPUTS MECHANISMS and OUTPUTS The STEM faculty development inputs construct focuses on topics related to the characteristics of faculty members and institutions that serve as barriers or supports to the adoption and implementation of holistic STEM faculty development programs Questions addressed in the handbook around this topic include What barriers supports exist for STEM faculty How are these barriers supports being addressed through STEM FD How do contexts e g economic political historical influence faculty administrative needs related to STEM FD How do demographics e g gender ethnicity age family background influence faculty administrative needs related to STEM FD The STEM faculty development mechanisms construct focuses on topics related to the actual implementation of STEM faculty development and we consider the potential models or structures of STEM faculty development that are currently in place or conceptualized in theory Questions addressed in the handbook around this topic include What are the processes for developing models of STEM FD What are effective models of STEM FD How is effectiveness determined What roles do stakeholders e g faculty administration consultants play within STEM FD mechanisms The STEM faculty development outputs construct focuses on how to best understand the influence of STEM faculty development on outcomes such as productivity teacher quality and identity in relation to faculty development Questions addressed in the handbook around this topic include How has STEM FD influenced higher education practices and

settings What are appropriate output measures and how are they used in practice What collaborations emerge from STEM FD How does STEM FD affect other STEM stakeholders e g students administration business community The aim for this handbook was to examine the multifaceted demands of faculty roles and together with members of the STEM education community envision pathways through which universities and individuals may support STEM colleagues regardless of their experience or rank to enjoy long and satisfying careers Our hope is for these chapters to aid readers in deep reflection on challenges faculty face to contemplate adaptations of models presented and to draw inspiration for creating or engaging in new professional development programs Chapters across this handbook highlight a variety of institutional contexts from 2 year technical colleges to teaching focused institutions in addition to research centric settings Some chapters focus primarily on teaching and learning practices and offer models for improving STEM instruction Others focus on barriers that emerge for STEM faculty when trying to engage in development experiences There are chapters that examine tenure structures in relation to faculty development and how STEM FD efforts could support research endeavors Mentorship and leadership models are also addressed along with a focus on equity issues that permeate higher education and impact STEM FD It is our sincere hope that this Handbook sparks increased discourse and continued explorations related to STEM FD and in particular the intentional focus of faculty development initiatives to extend to the many facets of academic life

Computer and Computing Technologies in Agriculture Daoliang Li,Yingyi Chen,2012-01-12 The three volume set IFIP AICT 368 370 constitutes the refereed post conference proceedings of the 5th IFIP TC 5 SIG 5 1 International Conference on Computer and Computing Technologies in Agriculture CCTA 2011 held in Beijing China in October 2011 The 189 revised papers presented were carefully selected from numerous submissions They cover a wide range of interesting theories and applications of information technology in agriculture including simulation models and decision support systems for agricultural production agricultural product quality testing traceability and e commerce technology the application of information and communication technology in agriculture and universal information service technology and service systems development in rural areas The 68 papers included in the second volume focus on GIS GPS RS and precision farming **Cumulated Index Medicus** ,2000 *Marine Fisheries Review* ,1992 **Nuclear Science Abstracts** ,1969 Computational Intelligence Methods for Bioinformatics and Biostatistics Andrea Bracciali,Giulio Caravagna,David Gilbert,Roberto Tagliaferri,2017-10-14 This book constitutes the thoroughly refereed post conference proceedings of the 13th International Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics CIBB 2016 held in Stirling UK in September 2016 The 19 revised full papers and 6 keynotes abstracts presented were carefully reviewed and selected from 61 submissions The papers deal with the application of computational intelligence to open problems in bioinformatics biostatistics systems and synthetic biology medicalinformatics computational approaches to life sciences in general *Creating Project-Based STEM Environments* Jennifer Wilhelm,Ronald Wilhelm,Merryn Cole,2019-02-05 This book models project based environments that

are intentionally designed around the United States Common Core State Standards CCSS 2010 for Mathematics the Next Generation Science Standards NGSS Lead States 2013 for Science and the National Educational Technology Standards ISTE 2008 The primary purpose of this book is to reveal how middle school STEM classrooms can be purposefully designed for 21st Century learners and provide evidence regarding how situated learning experiences will result in more advanced learning This Project Based Instruction PBI resource illustrates how to design and implement interdisciplinary project based units based on the REAL Realistic Explorations in Astronomical Learning Unit 1 and CREATES Chemical Reactions Engineered to Address Thermal Energy Situations Unit 2 The content of the book details these two PBI units with authentic student work explanations and research behind each lesson including misconceptions students might hold regarding STEM content pre post research results of unit implementation with over 40 teachers and thousands of students In addition to these two units there are chapters describing how to design one s own research based PBI units incorporating teacher commentaries regarding strategies obstacles overcome and successes as they designed and implemented their PBI units for the first time after learning how to create PBI STEM Environments the REAL way

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