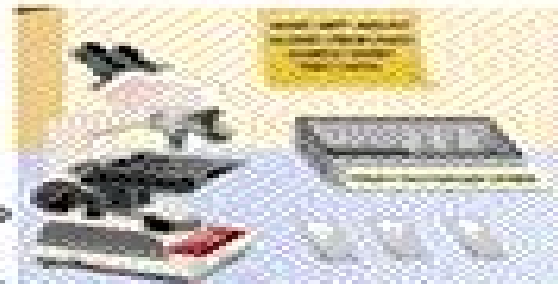


# Virtual Lab: Population Biology

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Instructions: This lab has instructions on the left hand side and also contains pages to enter data and questions. Due to the trouble we've had in the past with submitting documents and data this way, it is preferable to just turn in a handwritten or typed copy. Print this out for copies, or use the [VLab Document](#) to type directly into the tables (preferred)



| Data Table |                                         |                                          |                                                    |                                                     |
|------------|-----------------------------------------|------------------------------------------|----------------------------------------------------|-----------------------------------------------------|
|            | <i>P. aurelia</i> grown alone, cells/ml | <i>P. caudatum</i> grown alone, cells/ml | <i>P. aurelia</i> grown in mixed culture, cells/ml | <i>P. caudatum</i> grown in mixed culture, cells/ml |
| Day 0      |                                         |                                          |                                                    |                                                     |
| Day 2      |                                         |                                          |                                                    |                                                     |
| Day 4      |                                         |                                          |                                                    |                                                     |
| Day 6      |                                         |                                          |                                                    |                                                     |
| Day 8      |                                         |                                          |                                                    |                                                     |
| Day 10     |                                         |                                          |                                                    |                                                     |
| Day 12     |                                         |                                          |                                                    |                                                     |
| Day 14     |                                         |                                          |                                                    |                                                     |
| Day 16     |                                         |                                          |                                                    |                                                     |

## Journal

1. What are the objectives for this experiment? (you can summarize)
2. Make a hypothesis about how you think the two species of Paramecium will grow alone and how they will grow when they are grown together.
3. Explain how you tested your hypothesis.
4. On what day did the Paramecium caudatum population reach the carrying capacity of the environment when it was grown alone? How do you know?
5. On what day did the Paramecium aurelia population reach the carrying capacity of the environment? How do you know?

# Virtual Lab Population Biology Journal Answers

**National Science Foundation (U.S.)**



## Virtual Lab Population Biology Journal Answers:

*Visualizing Biological Information* Clifford A Pickover, 1995-12-15 Biological data of all kinds is proliferating at an incredible rate. If humans attempt to read such data in the form of numbers and letters they will take in the information at a snail's pace. If the information is rendered graphically however, human analysts can assimilate it and gain insight at a much faster rate. The emphasis of this book is on the graphic representation of information containing sequences such as DNA and amino acid sequences in order to help the human analyst find interesting and biologically relevant patterns. The editor's goal is to make this voyage through molecular biology, genetics, and computer graphics as accessible to a broad audience as possible with the inclusion of glossaries at the end of most chapters and program outlines where applicable. The book will be of most interest to biologists and computer scientists, and the various large reference lists should be of interest to beginners and advanced students of biology, graphic art, and computer science. Contributors have sought to find pattern and meaning in the cacophony of genetic and protein sequence data using unusual computer graphics and musical techniques. The Population Ecology and Conservation of Charadrius Plovers Mark A. Colwell, Susan M. Haig, 2019-04-26 The 40 or so species of beach-loving plovers, genus *Charadrius*, comprise a diverse group of shorebirds found around the world. Most of these species are challenged by changing climates and other human-related development activities, yet they provide key insights into basic ecological and evolutionary processes. The expert international contributors take a comparative approach, presenting examples from many worldwide plover studies and synthesizing the group's most pressing and important topics. The book further presents an emphasis on full life cycle biology, including the importance of examining migratory connectivity issues, even for non-migratory plovers. Color pages were planned and approved for some pages in this volume, but due to a printing error, some copies have incorrectly been released with these pages printed in black and white. Replacement copies with the correct color in place can be obtained upon request by contacting [orders.crcpress.com](mailto:orders.crcpress.com). CRC Press extends apologies to any customers affected by this error and for the inconvenience caused. Key Features Serves as a fundamental resource for conservation practitioners. Detailed overview of a widely distributed group of shorebirds. Authored by renowned specialists who present theoretical and applied perspectives. Emphasis on comparative and synthetic approach in all chapters. Related Titles: McComb B et al. *Monitoring Animal Populations and Their Habitats: A Practitioner's Guide* ISBN 978 0 4291 3827 0. Garvey J E M R. *Whiles Trophic Ecology* ISBN 978 1 4987 5846 8. Dewdney A K. *Stochastic Communities: A Mathematical Theory of Biodiversity* ISBN 978 1 1381 9702 2. Microbial Stress: From Sensing to Intracellular and Population Responses Daniela De Biase, John P. Morrissey, Conor P. O'Byrne, 2020-09-18 This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series; they are collections of at least ten articles all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings, and

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[An Introduction to Primate Conservation](#) Serge A. Wich, Andrew J. Marshall, 2016-07-07 The number of primates on the brink of extinction continues to grow and the need to respond with effective conservation measures has never been greater This book provides a comprehensive and state of the art synthesis of research principles and applied management practices for primate conservation It begins with a consideration of the biological intellectual economic and ecological importance of primates and a summary of the threats that they face before going on to consider these threats in more detail with chapters on habitat change trade hunting infectious diseases and climate change Potential solutions in the form of management practice are examined in detail including chapters on conservation genetics protected areas and translocation An Introduction to Primate Conservation brings together an international team of specialists with wide ranging expertise across primate taxa This is an essential textbook for advanced undergraduates graduate students and established researchers in the fields of primate ecology and conservation biology It will also be a valuable reference for conservation practitioners land managers and professional primatologists worldwide *Agrindex*, 1995 [Patterns and consequences of drug use.- v.2. Social responses to drug use.- v.3. The legal system and drug control.- v.4. Treatment and rehabilitation](#) United States. Commission on Marihuana and Drug Abuse, 1973 [Annual report of the National Science Foundation](#) National Science Foundation (U.S.), 1951 **Annual Report for Fiscal Year ...** National Science Foundation (U.S.), 1958 [Bacteriophages, Prophages, and Their Products: Regulating Bacterial Populations](#) Barbara Maciejewska, Agata Dorotkiewicz-Jach, Zuzanna Drulis-Kawa, Gamaliel López-Leal, 2025-06-18 Bacteriophages represent the most abundant biological entities in the biosphere and play a crucial role in controlling the number and biodiversity of bacterial populations Furthermore the majority of bacterial genomes contain bacteriophages in the prophage form ranging from inducible intact prophages over incomplete phage genomes to single moron genes of phage origin The impact of bacteriophages on bacterial populations both under the lytic or lysogenic cycle within any given environment is characterized by a great degree of complexity It can be discussed on different ecological levels in the abiotic environment content the interactions between phages and their hosts as well as interactions between phages Prophages influence the genetic diversity of bacteria and expand their phenotypic profile encoding proteins associated with resistance virulence defense and toxicity Additionally phage derived enzymes like lysins or depolymerases of prophage or lytic phage origin which may be released into the environment exert a consequential influence on the natural balance in bacterial ecosystems Phages and individual recombinant enzymes with antibacterial properties are utilized to modulate bacterial populations This approach proves relevant in infection treatment food preservation and the eradication of bacteria including biofilm from various surfaces Understanding the evolutionary ecological interactions between bacteria and phages will not only facilitate the application of phage therapy but also enhance

the utilization of products derived from phages In this Research Topic we welcome Original Research Reviews Mini Reviews Methods Perspectives and Opinions in the following areas Prevalence and ecological significance of bacteriophages influencing bacterial population biodiversity and abundance The use of bacteriophages and phage enzymes to modulate and eradicate bacteria in various niches including the natural and clinical environment industries and microbiome Distribution and characteristics of prophages in terms of bacterial diversity

### **Responses to Climate Change in the Cold Biomes**

Hans J. De Boeck,Erika Hiltbrunner,Anke Jentsch,Vigdis Vandvik,2019-06-05 Climate change is thought to be especially relevant to ecosystems in the cold biomes Observed warming has been higher in cold climates through various positive feedbacks especially declining snow and ice cover and climate projections indicate further rapid warming in the decades to come Temperature change can have profound impacts in cold biome ecosystems either directly in terms of impacts on physiology or growing season length or indirectly via changes in nutrient cycling The regions focused on here are the sub arctic and the sub alpine areas both characterized by short growing seasons and low annual temperatures but with different radiation environments depending on latitude Climate change can have impacts in all seasons Increased spring temperatures can accelerate snowmelt leading to an earlier onset of the growing season while warmer summers may stimulate primary productivity through temperatures closer to metabolic optima and or increased mineralization rates Winter warming can lead to the vegetation being damaged because of exposure to harsh frost without insulating snow cover In all of this concurrent changes in precipitation also play an important role increased snowfall can buffer warming induced advances in snowmelt a higher ratio of rain to snow can greatly accelerate snowmelt in winter and spring and summer drought may reverse growth stimulation by warming directly drought stress or indirectly e g impaired nutrient uptake Micro climate is crucial in these systems and requires particular attention as it can vary widely across the landscape creating different growing environments in the space of a few meters or even less Interest in cold region responses to climate change does not only arise from the fact that they harbor unique ecosystems that may be endangered but also because they store large amounts of carbon that may be released under climate change However research is challenging because of the remoteness of many of these areas and the harsh conditions during much of the year In spite of this some studies have been carried out over an extensive period spanning decades and yielding information on for example plant community reorganization including invasions and changes in phenology above and or belowground Other studies focus on shorter term effects such as impacts of heat waves late frosts or other anomalous weather including longer term after effects that may differ drastically from other regions because of the short growing season in cold climates Ultimately models are used to predict future changes in vegetation along latitudinal or elevational gradients although phenology and microclimatic variation may pose particular challenges Contributions to this Research Topic focus on climate change encompassing both changes in the mean gradual warming and variability heat waves altered precipitation distribution in cold biomes The Topic contains reports on observed changes or events but also research

making use of experimentally imposed environmental changes The focus is varied including phenology physiology soil and vegetation science and biogeochemistry with the aim of providing a comprehensive overview of observed and expected responses to climate change in cold biome ecosystems [EPA Publications Bibliography](#) United States. Environmental Protection Agency,1987

**Birds of Nunavut** James M. Richards,Anthony J. Gaston,2018-08-15 Nunavut is a land of islands encompassing some of the most remote places on Earth It is also home to some of the world s most fascinating bird species The windswept tundra rocky shorelines and icy waters of this thinly populated land are integral to the survival of numerous breeding and non breeding birds including the colourful King Eider the stately Snowy Owl the spritely Snow Bunting and the globe spanning Northern Wheatear Birds of Nunavut is the first complete survey of every species known to occur in the territory It is co written by a team of eighteen experts who have conducted a combined total of 300 seasons of fieldwork in Nunavut They document 295 species of birds of which 145 are known to breed in the territory presenting a wealth of information on identification distribution ecology behaviour and conservation Lavishly illustrated with over 800 colour photographs and 155 maps it is a visually stunning reference work on the birds that live in and visit Nunavut [Terrestrial Ecosystem Research Infrastructures](#) Abad Chabbi, Henry W. Loescher,2017-03-03 Terrestrial Ecosystem Research Infrastructures Challenges and Opportunities reveals how environmental research infrastructures RIs provide new valuable insights on ecological processes that cannot be realized by more traditional short term funding cycles and are integral to understand our changing world This book bonds the latest state of the science knowledge on environmental RIs the challenges in creating them their place in addressing scientific frontiers and the new perspectives they bear Each chapter is thoughtfully invested with fresh viewpoints from the environmental RI vantage as the authors explore and explain many topics such as the rationale and challenges in global change field and modeling platforms new tools challenges in data management distilling information into knowledge and new developments in large scale RIs This work serves an advantageous guide for academics and practitioners alike who aim to deepen their knowledge in the field of science and project management and logistics operations

**Stress in Yeasts and Filamentous Fungi** Simon Avery,Malcolm Stratford,Pieter van West,2007-12-05 Yeasts and filamentous fungi need to cope with stress whether growing in the laboratory or in the natural environment whether victims or offenders in interactions with other organisms These considerations are discussed in this volume that covers stress in the broad sense within the context of mycology Includes discussions of the stresses associated with organism organism interactions and stress under controlled conditions Anthropogenic stress towards fungi in the environment and the impacts that such stressors may have on different organisms and communities in the wild are explained Encompasses a breadth of information from the bigger picture of stress effects on fungi in their natural habitats to the recent advances in underlying molecular level understanding

**Artificial Immune Systems** Paul S. Andrews,Jon Timmis,Nick D. L. Owens,Uwe Aickelin,Emma Hart,Andrew Hone,Andy Tyrrell,2009-07-28 Arti

cial immune systems AIS is a diverse and maturing area of research that bridges the disciplines of immunology and engineering The scope of AIS ranges from immune inspired algorithms and engineering solutions in software and hardware to the understanding of immunology through modeling and simulation of immune system concepts AIS algorithms have been applied to a wide variety of applications including computer security fault tolerance data mining and optimization In addition theoretical aspects of artificial and real immune systems have been the subject of mathematical and computational models and simulations The 8th International Conference on AIS ICARIS 2009 built on the success of previous years providing a forum for a diverse group of AIS researchers to present and discuss their latest results and advances After two years outside Europe ICARIS 2009 returned to England the venue for the first ICARIS back in 2002 This year's conference was located in the historic city of York and was held in St William's College the conference venue of York Minster northern Europe's largest Gothic cathedral

**Principles and Methods of Test Construction** Karl Schweizer, Christine DiStefano, 2017-06-12

Leading experts describe the state of the art in developing and constructing psychometric tests This latest volume in the series Psychological Assessment Science and Practice describes the current state of the art in test development and construction The past 10-20 years have seen substantial advances in the methods used to develop and administer tests In this volume many of the world's leading authorities collate these advances and provide information about current practices thus equipping researchers and students to successfully construct new tests using the best modern standards and techniques The first section explains the benefits of considering the underlying theory when designing tests such as factor analysis and item response theory The second section looks at item format and test presentation The third discusses model testing and selection while the fourth goes into statistical methods that can find group specific bias The final section discusses topics of special relevance such as multi-trait multi-state analyses and development of screening instruments

**Selected Water**

**Resources Abstracts**, 1988-12 Canadian Journal of Fisheries and Aquatic Sciences, 1990 National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1970

**Ornithology** Michael L. Morrison, Amanda D. Rodewald, Gary Voelker, Melanie R. Colón, Jonathan F. Prather, 2018-09-03 The essential text for ornithology courses this book will leave students with a lifelong understanding and appreciation of the biology and ecology of birds Aves the birds is the wildlife group that people most frequently encounter With over 10 000 species worldwide these animals are part of our everyday experience They are also the focus of intense research and their management and conservation is a subject of considerable effort throughout the world But what are the defining attributes that make a bird a bird Aimed at undergraduate and graduate students Ornithology provides a solid modern foundation for understanding the life and development of birds Written by renowned experts from around the globe this comprehensive textbook draws on the latest research to create an innovative learning experience Moving beyond bones muscle and feathers it provides the core information needed to build the bird linking anatomy and physiology with ecology and behavior As it reviews the major

orders of birds the book highlights their wide diversity and critically evaluates ornithological concepts and theories Incorporating brief biographies of leaders in the field the text describes their contributions in the context of key historical events in bird science Each chapter ends with a summary of the material covered a discussion of potential management and conservation applications and suggested study questions that will stimulate thought and discussion Contributors Peter Arcese George E Bentley Lori A Blanc William M Block Alice Boyle Leonard A Brennan Luke K Butler Zac Cheviron Luis M Chiappe Melanie R Col n Caren B Cooper Robert J Cooper Jamie M Cornelius Carlos Martinez Del Rio John Dumbacher Shannon Farrell Maureen Flannery Geoffrey Geupel Patricia Adair Gowaty Thomas P Hahn Ashley M Heers Fritz Hertel Geoffrey E Hill Matthew Johnson Lukas F Keller Dylan C Kesler Pablo Sabat Kirkwood John Klicka Christopher A Lepczyk Ashley M Long Scott R Loss Graham R Martin John M Marzluff Susan B McRae Michael L Morrison Timothy J O Connell Jen C Owen Marco Pavia Jeffrey Podos Lars Pomara Jonathan F Prather Marco Restani Alejandro Rico Guevara Amanda D Rodewald Vanya G Rohwer Matthias Starck Michael W Strohbach S Ma eika P Sullivan Diego Sustaita Kerri T Vierling Gary Voelker Margaret A Voss Jeff R Walters Paige S Warren Elisabeth B Webb Michael S Webster Eric M Wood Robert M Zink Benjamin Zuckerberg

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