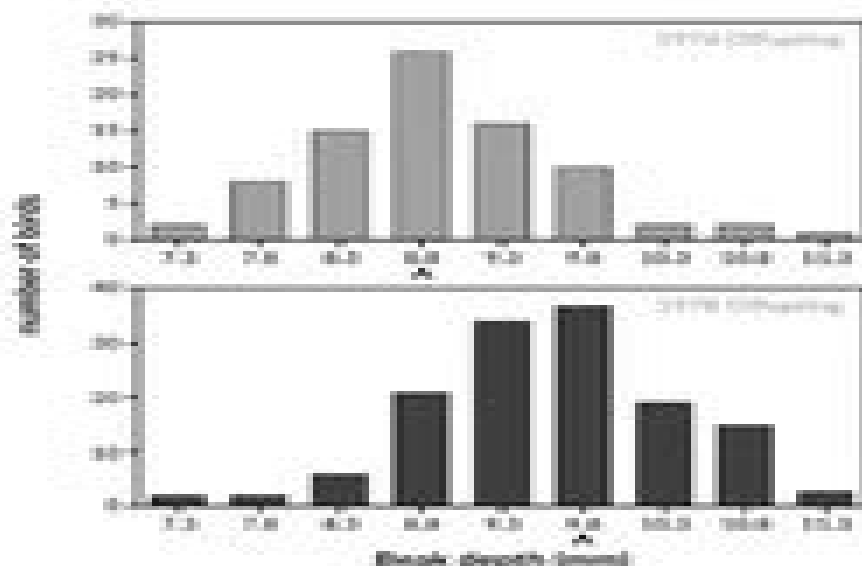


Galapagos Finch Evolution (Form B Interactive)

<https://curriculum.illustrativemathematics.org/MS-CC-02>

~10 minutes

1. What is the territory of craters? _____
2. The Grant study on the island of Craters Major studied what organism? _____
3. Where do the 13 species of finches on the islands come from? _____
4. How did the Grants catch the finches? _____
5. What features did they measure? _____
6. What happened in 1977 to the island? _____
7. What type of birds were more likely to survive after this event? _____
8. After the El Niño event in 1983, which birds were more likely to survive? _____
9. What keeps different species from mating on the Galapagos islands? _____
10. The most likely scenario explaining the different finches on the islands is that:
 - a) different birds migrated to different islands
 - b) one species evolved into many different species
11. Examine the graph below. Summarize what happened to the finch population between 1976 and 1978. _____



12. Why did the finch populations change from 1976 to 1978? _____

Finch And Evolution Lab Answers

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Exploring Biology in the Laboratory: Core Concepts Murray P. Pendarvis, John L. Crawley, 2019-02-01 Exploring Biology in the Laboratory Core Concepts is a comprehensive manual appropriate for introductory biology lab courses This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired Based on the two semester version of Exploring Biology in the Laboratory 3e this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in and continue to act on the diversity that we see around us today

Lab Manual for Biology Labs On-line Robert Desharnais, 2000 *Wild Immunology—The Answers Are Out There* Gregory M. Woods, Andrew S. Flies, 2019-03-20 Go into partnership with nature she does more than half the work and asks none of the fee Martin H Fisher Nature has undertaken an immense amount of work throughout evolution The evolutionary process has provided a power of information that can address key questions such as Which immune molecules and pathways are conserved across species Which molecules and pathways are exploited by pathogens to cause disease What methods can be broadly used or readily adapted for wild immunology How does co infection and exposure to a dynamic environment affect immunity Section 1 addresses these questions through an evolutionary approach Laboratory mice have been instrumental in dissecting the nuances of the immune system The first paper investigates the immunology of wild mice and reviews how evolution and ecology sculpt differences in the immune responses of wild mice and laboratory mice A better understanding of wild immunology is required and sets the scene for the subsequent papers Although nature doesn't ask for a fee it is appropriate that nature is repaid in one form or another The translational theme of the second section incorporates papers that translate wild immunology back to nature But any non human non laboratory mouse research environment is hindered by a lack of research tools hence the underlying theme throughout the second section Physiological resource allocation is carefully balanced according to the most important needs of the body Tissue homeostasis can involve trade offs between energy requirements of the host and compensatory mechanisms to respond to infection The third section comprises a collection of papers that employ novel strategies to understand how the immune system is compensated under challenging physiological situations Technology has provided substantial advances in understanding the immune system at cellular and molecular levels The specificity of these tools e g monoclonal antibodies often limits the study to a specific species or strain A consequence of similar genetic sequences or cross reactivity is that the technology can be adapted to wild species Section 4 provides two examples of probing wild immunology by adapting technology developed for laboratory species *The Pfizer Journal*, 1999

Avian Genomics in Ecology and Evolution Robert H. S. Kraus, 2019-06-29 Birds catch the public imagination like no other group of animals in addition birders are perhaps the largest non professional naturalist community Genomics and associated bioinformatics have revolutionised daily life in just a few decades At the same time this

development has facilitated the application of genomics technology to ecological and evolutionary studies including biodiversity and conservation at all levels This book reveals how the exciting toolbox of genomics offers new opportunities in all areas of avian biology It presents contributions from prominent experts at the intersection of avian biology and genomics and offers an ideal introduction to the world of genomics for students biologists and bird enthusiasts alike The book begins with a historical perspective on how genomic technology was adopted by bird ecology and evolution research groups This led as the book explains to a revised understanding of avian evolution with exciting consequences for biodiversity research as a whole Lastly these impacts are illustrated using seminal examples and the latest discoveries from avian biology laboratories around the world

The Evolution of Rhythm Cognition: Timing in Music and Speech Andrea Ravignani, Henkjan Honing, Sonja A. Kotz, 2018-07-24 Human speech and music share a number of similarities and differences One of the closest similarities is their temporal nature as both i develop over time ii form sequences of temporal intervals possibly differing in duration and acoustical marking by different spectral properties which are perceived as a rhythm and iii generate metrical expectations Human brains are particularly efficient in perceiving producing and processing fine rhythmic information in music and speech However a number of critical questions remain to be answered Where does this human sensitivity for rhythm arise How did rhythm cognition develop in human evolution How did environmental rhythms affect the evolution of brain rhythms Which rhythm specific neural circuits are shared between speech and music or even with other domains Evolutionary processes long time scales often prevent direct observation understanding the psychology of rhythm and its evolution requires a close fitting integration of different perspectives First empirical observations of music and speech in the field are contrasted and generate testable hypotheses Experiments exploring linguistic and musical rhythm are performed across sensory modalities ages and animal species to address questions about domain specificity development and an evolutionary path of rhythm Finally experimental insights are integrated via synthetic modeling generating testable predictions about brain oscillations underlying rhythm cognition and its evolution Our understanding of the cognitive neurobiological and evolutionary bases of rhythm is rapidly increasing However researchers in different fields often work on parallel potentially converging strands with little mutual awareness This research topic builds a bridge across several disciplines focusing on the cognitive neuroscience of rhythm as an evolutionary process It includes contributions encompassing although not limited to 1 developmental and comparative studies of rhythm e g critical acquisition periods innateness 2 evidence of rhythmic behavior in other species both spontaneous and in controlled experiments 3 comparisons of rhythm processing in music and speech e g behavioral experiments systems neuroscience perspectives on music speech networks 4 evidence on rhythm processing across modalities and domains 5 studies on rhythm in interaction and context social affective etc 6 mathematical and computational e g connectionist symbolic models of rhythmicity as an evolved behavior

Instructors Lab Manual for Biologylabs On-Line Robert Desharnais, Michael Palladino, Les Bell, 2001

Sexual Selection Malte Andersson, 2019-12-31 Bright colors enlarged fins feather plumes song horns antlers and tusks are often highly sex dimorphic Why have males in many animals evolved more conspicuous ornaments signals and weapons than females How can such traits evolve although they may reduce male survival Such questions prompted Darwin's perhaps most scientifically controversial idea the theory of sexual selection It still challenges researchers today as they try to understand how competition for mates can favor the variety of sex dimorphic traits Reviewing theoretical and empirical work in this very active field Malte Andersson a leading contributor himself provides a major up to date synthesis of sexual selection The author describes the theory and its recent development examines models methods and empirical tests and identifies many unsolved problems Among the topics discussed are the selection and evolution of mating preferences relations between sexual selection and speciation constraints on sexual selection and sex differences in signals body size and weapons The rapidly growing study of sexual selection in plants is also reviewed This volume will interest students teachers and researchers in behavioral ecology and evolutionary biology

Brain, Behavior and Evolution, 1994 College Teaching and Learning for Change Margaret A. Miller, 2017-03-27 Students and faculty come together in this powerful collection to discuss experiences and teaching practices that can change students' lives Organized into four parts these first person accounts explore the many challenges facing college students offering advice on how to best serve low income first generation underrepresented student populations how to foster political engagement and how to help students take charge of their lives and education The stories in College Teaching and Learning for Change provide higher education faculty and student affairs practitioners with an increased understanding of the wide variety of student experiences and together they constitute a platform for encouraging student success

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