

Analysis of a Squirrel Gene Pool

Suppose that, after a natural disaster, a small population of 2000 squirrels were left behind. Between 1970 and 1990, they appeared at three marked locations around the edge of the preserve. These locations are generally in open and sunny habitats that attract dispersed, solitary birds. Scientists often select these locations for all subsequent scientific studies. The data collected are presented in the tables below and are being analyzed statistically. The first table shows the observed and expected genotype frequencies for the brown coat color gene. The second table shows the observed and expected allele frequencies for the brown coat color gene. The third table shows the observed and expected genotype frequencies for the brown coat color gene.



Table 1: Observed and expected genotype frequencies for the brown coat color gene

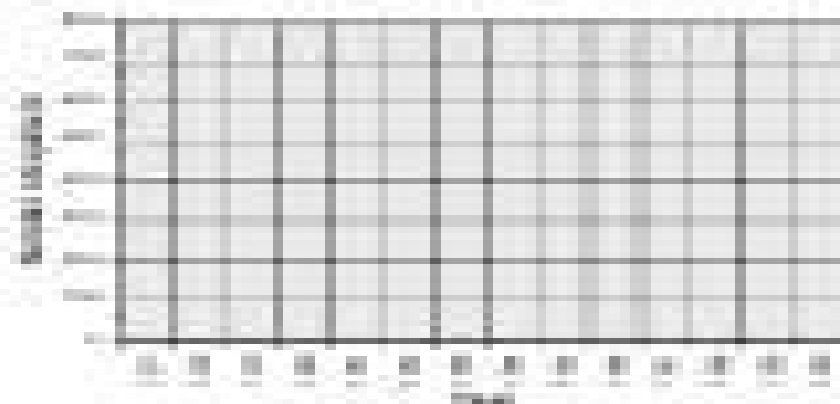
Year	Observed	Expected	Observed	Expected	Observed	Expected
1970	100	100	100	100	100	100
1975	100	100	100	100	100	100
1980	100	100	100	100	100	100
1985	100	100	100	100	100	100
1990	100	100	100	100	100	100
1995	100	100	100	100	100	100
2000	100	100	100	100	100	100
2005	100	100	100	100	100	100
2010	100	100	100	100	100	100
2015	100	100	100	100	100	100
2020	100	100	100	100	100	100
2025	100	100	100	100	100	100
2030	100	100	100	100	100	100
2035	100	100	100	100	100	100
2040	100	100	100	100	100	100
2045	100	100	100	100	100	100
2050	100	100	100	100	100	100
2055	100	100	100	100	100	100
2060	100	100	100	100	100	100
2065	100	100	100	100	100	100
2070	100	100	100	100	100	100
2075	100	100	100	100	100	100
2080	100	100	100	100	100	100
2085	100	100	100	100	100	100
2090	100	100	100	100	100	100
2095	100	100	100	100	100	100
2100	100	100	100	100	100	100

Year	Observed	Expected
1970	100	100
1975	100	100
1980	100	100
1985	100	100
1990	100	100
1995	100	100
2000	100	100
2005	100	100
2010	100	100
2015	100	100
2020	100	100
2025	100	100
2030	100	100
2035	100	100
2040	100	100
2045	100	100
2050	100	100
2055	100	100
2060	100	100
2065	100	100
2070	100	100
2075	100	100
2080	100	100
2085	100	100
2090	100	100
2095	100	100
2100	100	100

1. Using the data in the tables, calculate the observed and expected genotype frequencies for the brown coat color gene. (10 points)

2. Using the data in the tables, calculate the observed and expected allele frequencies for the brown coat color gene. (10 points)

3. Using the data in the tables, calculate the observed and expected genotype frequencies for the brown coat color gene. (10 points)



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M Walker



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Cross-Base Highway Project, New Roadway Construction Between I-5 at the Thorne Lane Interchange and WA-7 at 176th St. South ,2003 **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants,1973 *Research Awards Index* ,1987 **Science Findings** ,2000 **2003 Science Accomplishments of the Pacific Northwest Research Station** Pacific Northwest Research Station (Portland, Or.),2004 Canadian Journal of Zoology ,2001 **Computational Methods for Microbiome Analysis** Joao Carlos Setubal,Jens Stoye,Bas E. Dutilh,2021-02-02 **Science Findings** ,2002 *Cytochrome - Genetic and Population Aspects* Dr. Priyanka Gupta Manglik,2024-08-10 Explores the structure function and genetic variation of cytochromes highlighting their role in evolution metabolism and species diversity *A Companion to Biological Anthropology* Clark Spencer Larsen,2010-02-22 An extensive overview of the rapidly growing field of biologicalanthropology chapters are written by leading scholars who havethemselves played a major role in shaping the direction and scopeof the discipline Extensive overview of the rapidly growing field of biologicalanthropology Larsen has created a who s who of biologicalanthropology with contributions from the leadingauthorities in the field Contributing authors have played a major role in shaping thedirection and scope of the topics they write about Offers discussions of current issues controversies and futuredirections within the area Presents coverage of the many recent innovations anddiscoveries that are transforming the subject **Molecular Ecology** Joanna R. Freeland,Heather Kirk,Stephen D. Petersen,2011-03-23 Molecular Ecology 2nd Edition provides an accessible introduction to the many diverse aspects of this subject The book takes a logical and progressive approach to uniting examples from a wide range of taxonomic groups The straightforward writing style offers in depth analysis whilst making often challenging subjects such as population genetics and phylogenetics highly comprehensible to the reader The first part of the book introduces the essential underpinnings of molecular ecology and gives a review of genetics and discussion of the molecular markers that are most frequently used in ecological research and a chapter devoted to the newly emerging field of ecological genomics The second half of the book covers specific applications of molecular ecology covering phylogeography behavioural ecology and conservation genetics The new edition provides a thoroughly up to date introduction to the field emphasising new types of analyses and including current examples and techniques whilst also retaining the information rich highly readable style which set the first edition apart Incorporates both theoretical and applied perspectives Highly accessible user friendly approach and presentation Includes self assessment activities with hypothetical cases based on actual species and realistic data sets Uses case studies to place the theory in context Provides coverage of population genetics genomics phylogeography behavioural ecology and conservation genetics *Genetics Fundamentals Notes* Debasish Kar,Sagartirtha Sarkar,2022-10-06 This up to date and comprehensive textbook is essential reading material for advanced undergraduate and graduate students with a course module in genetics and developmental biology The book provides clear concise and rigorous

foundational concepts of genetics It opens with an introductory chapter that provides an overview of genetics The book includes separate and detailed sections on classical genetics molecular genetics and population genetics It covers basic and foundational principles such as Mendelian genetics chromosomal theory transcription translation mutation and gene regulation It further includes chapters on advanced topics such as molecular genetic techniques genomics and applied molecular genetics The concluding section includes chapters on population genetics developmental genetics and evolutionary genetics The chapters are written by authors with in depth knowledge of the field The book is replete with interesting examples case studies questions and suggested reading It is useful to students and course instructors in the field of human genetics developmental biology life sciences and biotechnology It is also meant for researchers who wish to further their understanding about the fundamental concepts of genetics

The Maladapted Mind Simon Baron-Cohen, 2013-04-15 Newly available in paperback this is the first book to bring together classic and contemporary readings illustrating the new subdiscipline evolutionary psychopathology Each chapter demonstrates how evolutionary arguments are being brought to bear on the study of a different psychiatric condition or pathological behaviour The Maladapted Mind is aimed primarily at primarily at advanced students and researchers in the fields of psychiatry abnormal psychology biological anthropology evolutionary biology and cognitive science

Sociobiology Edward O. Wilson, 2000-03-24 When this work was first published it started a tumultuous round in the age old nature versus nurture debate It shows how research in human genetics and neuroscience has strengthened the case for biological understanding of human nature

Biodiversity, Conservation and Sustainability in Asia Münir Öztürk, Volkan Altay, Recep Efe, 2021-04-24 Of the world's seven continents Asia is the largest Its physical landscapes political units and ethnic groups are both wide ranging and many Southwest South and Middle Asia are highly populated regions which as a whole cover an extremely large area of varied geography In total this domain is unique in its plant diversity and large vegetation zones with different communities and biomes It is rich in endemics with specific and intraspecific diversity of fruit trees and medicinal plants including a number of rare high value species At the same time much of the land in the region is too dry or too rugged with many geographical extremes Overgrazing oil and mineral extraction and poaching are the major threats in the area This two volume project focuses on the dynamic biodiversity of the region with in depth analysis on phytosociology plants animals and agroecology There are also chapters that explore new applications as well as approaches to overcome problems associated with climate change Much of the research and analysis are presented here for the first time We believe this work is a valuable resource for professionals and researchers working in the fields of plant diversity and vegetation animal diversity and animal populations and geo diversity and sustainable land use among others The first volume guides our readers to West Asia and the Caucasus region while volume two focuses on issues unique to South and Middle Asia

2000 RPA Assessment of Forest and Range Lands, 2001

Nuclear Science Abstracts, 1967-05

Biological and Genetic Basis of Agronomical and Seed Quality Traits in

Legumes Jose C. Jimenez-Lopez, Alfonso Clemente, Sergio J. Ochatt, Maria Carlota Vaz Patto, Eric Von Wettberg, Petr Smýkal, 2022-11-10 Ecology Abstracts , 1998 Coverage 1982 current updated monthly This database covers current ecology research across a wide range of disciplines reflecting recent advances in light of growing evidence regarding global environmental change and destruction Major areas of subject coverage include Algae lichens Animals Annelids Aquatic ecosystems Arachnids Arid zones Birds Brackish water Bryophytes pteridophytes Coastal ecosystems Conifers Conservation Control Crustaceans Ecosystem studies Fungi Grasses Grasslands High altitude environments Human ecology Insects Legumes Mammals Management Microorganisms Molluscs Nematodes Paleo ecology Plants Pollution studies Reptiles River basins Soil TAiga tundra Terrestrial ecosystems Vertebrates Wetlands Woodlands **Index Medicus** , 2004

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