

Flies Phylogeny And Islands Evolution And Diversity Of Hawaiian Drosophila

[#Flies Phylogeny](#) [#Hawaiian Drosophila](#) [#Island Evolution](#) [#Insect Biodiversity](#) [#Evolutionary Biology](#)

Explore the fascinating world of Hawaiian Drosophila, a group of flies renowned for their exceptional diversity and evolutionary adaptations. This study delves into the phylogeny of these insects and their evolution in the unique island environment of Hawaii, revealing insights into the processes that drive speciation and adaptation on isolated landmasses.

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Flies Phylogeny And Islands Evolution And Diversity Of Hawaiian Drosophila

Richard Dawkins: Hawaii as a Nursery of Evolution - Nebraska Vignettes #6 - Richard Dawkins: Hawaii as a Nursery of Evolution - Nebraska Vignettes #6 by Richard Dawkins Foundation for Reason & Science 69,923 views 14 years ago 3 minutes, 6 seconds - Richard Dawkins shows how the relatively young **island**, chain of **Hawaii**, acts as a nursery of **evolution**, as it moves over a volcanic ...

Systems Approach to Understanding Adaptive Evolutionary Change: Hawaiian Drosophila as a Model Clade - Systems Approach to Understanding Adaptive Evolutionary Change: Hawaiian Drosophila as a Model Clade by NIH VideoCast 880 views 2 years ago 1 hour, 9 minutes - Air date: Wednesday, February 16, 2022, 3:00:00 PM Description: WALs - Wednesday Afternoon Lectures Dr. Extavour is a ...

Introduction

Evolutionary Change

Evolutionary Process

Multimodel Approach

Team Members

Ovarian Structure

Ovarians

Heritability

Developmental Control

Micrographs

Phylogenetic Tree

Genetic Regulation

Hawaiian Drosophila

Field Work

Host Preference

Thought Exercise

All Insects

Other Insects

Summary

Questions

Richard Dawkins: Hawaii as a Nursery of Evolution - Nebraska Vignettes #6 - Richard Dawkins: Hawaii as a Nursery of Evolution - Nebraska Vignettes #6 by Richard Dawkins Foundation for Reason & Science 29,106 views 9 years ago 3 minutes - Richard Dawkins shows how the relatively young **island**, chain of **Hawaii**, acts as a nursery of **evolution**, as it moves over a volcanic ...

SPECIES CONCEPTS (BIOLOGICAL, MORPHOLOGICAL, ECOLOGICAL, PHYLOGENETIC) - SPECIES CONCEPTS (BIOLOGICAL, MORPHOLOGICAL, ECOLOGICAL, PHYLOGENETIC) by Faaizah Academy 74,521 views 3 years ago 13 minutes, 4 seconds - Learn about the definitions, pros, and cons of the biological, morphological, ecological, and **phylogenetic**, species concepts.

Intro

Biological Species

Morphological Species

Ecological Species

Pros Cons

Phylogenetic Species

Ecology, Evolution, and Species Diversification in Hawaiian Islands - Ecology, Evolution, and Species Diversification in Hawaiian Islands by Harvard Museum of Natural History 4,367 views 7 years ago 57 minutes - Rosemary Gillespie, Professor and Schlinger Chair in Systematic Entomology, University of California, Berkeley Oceanic "hotspot" ...

RCL Perkins, 1900

Hawaiian Drosophila Project

Spiders???

Hawaiian Biogeography, 1995

Evolutionary Community Assembly on Hawaii Island

Community Dynamics: Trophic Interactions

Using dynamic geomorphology of youngest Hawaiian Islands, determine

The Phylogenetic Tree of Anole Lizards — HHMI BioInteractive Video - The Phylogenetic Tree of Anole Lizards — HHMI BioInteractive Video by biointeractive 987,678 views 9 years ago 18 minutes - Biologist Jonathan Losos describes the traits that enable anole lizard species to live in their various habitats. In this educational ...

Richard Dawkins: Show Me the Intermediate Fossils! - Nebraska Vignettes #1 - Richard Dawkins: Show Me the Intermediate Fossils! - Nebraska Vignettes #1 by Richard Dawkins Foundation for Reason & Science 991,529 views 9 years ago 2 minutes, 31 seconds - Richard Dawkins shows how whales evolved from a cloven-hoofed ancestor, and reveals whales' closest modern-day cousin.

Intermediate Fossils

Pakicetus

Hippopotamus

Richard Dawkins interviewed by Dina Volaric, ABC TV Compass - Richard Dawkins interviewed by Dina Volaric, ABC TV Compass by Richard Dawkins Foundation for Reason & Science 150,563 views 14 years ago 19 minutes - Richard Dawkins is interviewed for Australian ABC TV Compass. * This video was provided for use on RichardDawkins.net and ...

Drosophila | Drosophila Diagram | how to draw drosophila | how to draw fly || fruit fly diagram - Drosophila | Drosophila Diagram | how to draw drosophila | how to draw fly || fruit fly diagram by Art with B 6,846 views 2 years ago 5 minutes, 20 seconds - This video about how to draw **drosophila**, diagram for beginners pencil sketch. **Drosophila**, | **Drosophila**, Diagram | how to draw ...

Taxonomy: Life's Filing System - Crash Course Biology #19 - Taxonomy: Life's Filing System - Crash Course Biology #19 by CrashCourse 3,147,744 views 11 years ago 12 minutes, 16 seconds - Hank tells us the background story and explains the importance of the science of classifying living things, also known as taxonomy ...

1) Taxonomy

2) Phylogenetic Tree

3) Biogeography

4) Analogous/Homoplastic Traits

5) Homologous Traits

6) Taxa & Binomial Nomenclature

7) Domains

a) Bateria

b) Archaea

c) Eukarya / 4 Kingdoms

Plantae

Protista

Fungi

Animalia

Richard Dawkins : Comparing the Human and Chimpanzee Genomes - Nebraska Vignettes #3 - Richard Dawkins : Comparing the Human and Chimpanzee Genomes - Nebraska Vignettes #3 by Richard Dawkins Foundation for Reason & Science 94,181 views 9 years ago 1 minute, 38 seconds - Richard Dawkins shows just how similar the Human and Chimpanzee genomes really are, with the help of a great visual from the ...

Phylogenetic diversity of microbes - Dianne Newman (Cal Tech/HHMI) - Phylogenetic diversity of microbes - Dianne Newman (Cal Tech/HHMI) by iBiology Techniques 8,457 views 10 years ago 2 minutes, 55 seconds - The **phylogenetic**, tree of life relates the bacteria, archea and eucarya worlds.

Tree of Life

Domains of Life

Mitochondrion

Chloroplast

Richard Dawkins: Insurance Policy: Two Eggs, One Survivor - Richard Dawkins: Insurance Policy: Two Eggs, One Survivor by Richard Dawkins Foundation for Reason & Science 61,396 views 14 years ago 2 minutes, 59 seconds - Richard Dawkins explains the related egg-laying habits of Nazca Boobies, Blue Footed Boobies and Gannetts. These evolved ...

How We're All Related (Phylogeny): Crash Course Biology #17 - How We're All Related (Phylogeny): Crash Course Biology #17 by CrashCourse 51,850 views 4 months ago 13 minutes, 51 seconds - Crocodiles, and birds, and dinosaurs—oh my! While classifying organisms is nothing new, **phylogeny**,— or, grouping organisms ...

The Platypus & Phylogeny

Taxonomy

Systematics

Phylogeny & Genetics

Dr. Motoo Kimura

Phylogenetic Trees

The Complexities of Evolution

Review and Credits

Richard Dawkins: Diatoms: The Evolution of a New Species - Nebraska Vignettes #5 - Richard Dawkins: Diatoms: The Evolution of a New Species - Nebraska Vignettes #5 by Richard Dawkins Foundation for Reason & Science 100,315 views 14 years ago 2 minutes, 10 seconds - Richard Dawkins explains how microscopic algae called Diatoms uniquely evolved in Yellowstone Lake.

Download Quicktime ...

Drosophila Courtship Song - Genetics - University of Leicester - Drosophila Courtship Song - Genetics - University of Leicester by University of Leicester 38,035 views 14 years ago 2 minutes, 38 seconds - The courtship behavior of **Fruit flies**, (**Drosophila**, melanogaster). This film was made for the University of Leicester open day to ...

Introduction to Drosophila Melanogaster: Lifecycle and Anatomy - Introduction to Drosophila Melanogaster: Lifecycle and Anatomy by Ms. A Explains 6,864 views 3 years ago 6 minutes, 31 seconds

From Supercontinents to Islands - Evolution in Motion - From Supercontinents to Islands - Evolution in Motion by Harvard Museum of Natural History 2,693 views 7 years ago 53 minutes - Gonzalo Giribet, Professor of Organismic and **Evolutionary**, Biology, Department of Organismic and **Evolutionary**, Biology, Curator ...

THE MYRIAD MARVELS OF ISLAND LIFE

EXTINCTION

MUOR CONTINENTAL ISLANDS

TAXON-AREA CLADOGRAMS

FOSSIL RECORD OF RHYNCHOCEPHALIANS

New Zealand - Pleistocene

Cyphophthalmi distribution

Cretaceous (100-65mya)

Mid-Upper Jurassic (150 mya)

HHMI Educator Tips — Fruit Fly Courtship - HHMI Educator Tips — Fruit Fly Courtship by biointeractive 1,748 views 8 years ago 1 minute, 15 seconds - Cindy Gay presents a short 55-second video clip demonstrating the **fruit fly**, courtship dance and its role in selection.

Speciation: An Illustrated Introduction - Speciation: An Illustrated Introduction by Cornell Lab of Ornithology 579,627 views 10 years ago 8 minutes, 26 seconds - Including photographs and video by Tim Laman.

Transformation of fruit flies: How transposons helped decode the fruit fly genome - Transformation of fruit flies: How transposons helped decode the fruit fly genome by The Genetic Basis of Stuff and Things 1,237 views 1 year ago 4 minutes, 43 seconds - Genetic transformation of **Drosophila**, with transposable element vectors. Rubin GM, Spradling AC. Science. 1982 Oct 22 ...

Two flies on an island: Speciation in African Drosophila | Jerry Coyne - Two flies on an island: Speciation in African Drosophila | Jerry Coyne by IISER Pune 251 views 6 years ago 1 hour, 3 minutes - Science Media Centre, IISER Pune <https://sites.google.com/acads.iiserpune.ac.in/smc/home>.

Introduction

Requirements for speciation

Jencks appreciation

Biogeography

Island tour

Habitat

How did speciation occur

Introducing the flies

pigmentation

male genitalia

reproductive barriers

QTL mapping

pigmentation difference

hybrid sterility

Haldanes rule

Sperm motility

Sexual isolation

Reinforcement

Testing

Stupid reviewer

Gene exchanges

Shared polymorphism

Genetic divergence

Control pair

Gene exchange

Mitochondria

Gene flow

Hybrid swarm

Genetic introgression

Allele frequencies

Natural selection

Mitochondrial DNA

Ecology

F1 hybrids

Physiological differences

Altitude distribution

Hybrid zones

Phylogenetic Mysteries: Crash Course Zoology #12 - Phylogenetic Mysteries: Crash Course Zoology #12 by CrashCourse 64,815 views 2 years ago 12 minutes, 33 seconds - In today's episode of Crash Course Zoology we're going to solve some **phylogenetic**, mysteries! There are so many more ...

UHH FoA Adaptive Radiation & Speciation Drosophila and Other Native Insects AG 194R Jan 12, 1999 - UHH FoA Adaptive Radiation & Speciation Drosophila and Other Native Insects AG 194R Jan 12, 1999 by Mookini Library 14 views 2 years ago 1 hour, 29 minutes - UH Hilo Focus on Ag Adaptive Radiation & Speciation **Drosophila**, and Other Native Insects AG 194R Jan 12, 1999 Host

Professor ...

Isolation of the Islands

Land Snails

Drosophila Melanogaster

Slime Flux

Genetics of the Mating Behavior

Lace Wing Bug

Damsel Flies

Damso Flies

Longhorn Beetle

Butterflies

Flash Flesh Eating Caterpillar

Courtship Song

Mechanisms of Sound Production

Life Cycle

Hawaiian Drosophila

Drosophila: Small fly, BIG impact - Part 1 (Why the fly?) - Drosophila: Small fly, BIG impact - Part 1 (Why the fly?) by Manchester Fly Facility 37,583 views 9 years ago 5 minutes, 2 seconds - A film about the history and importance of the **fruit fly**, **#Drosophila**, as a model organism in biomedical research. A useful ...

How To Anesthetize Drosophila - How To Anesthetize Drosophila by FlinnScientific 13,390 views 11 years ago 1 minute, 34 seconds - Watch as the Flinn Scientific Tech Staff demonstrates how to anesthetize **drosophila**. Be sure to subscribe and check out more ...

PABIO Unit 1 Classification and Phylogeny - PABIO Unit 1 Classification and Phylogeny by ScienceMiller 381 views 4 years ago 17 minutes - Define and describe the binomial system of naming species as a system, in addition to other classification systems.

Intro

classification: putting things into groups

Binomial Nomenclature - each species is assigned a two part scientific name...

How do you classify an organism with ALL categories?

Another Example

Each level of classification is based on characteristics shared by all the organisms it contains.

Advantages to Taxonomy -common way of communicating, regardless

Changes Made to Modern Classification

What is the goal of evolutionary classification?

Biologists create... clades - groups of species that include a single common ancestor and all descendants of that ancestor

Role of DNA in Classification * The more derived genetic characters two species share, the more recently shared a common ancestor and the more closely they are related in evolutionary terms

BIO178 Week 4 Phylogeography Networks - BIO178 Week 4 Phylogeography Networks by Lani Gleason 6,072 views 3 years ago 13 minutes, 23 seconds - ... these birds are distributed across different channel **islands**, here off the coast of california this is also related to that **evolution**, talk ...

AP Biology Lab 7: Genetics of Drosophila - AP Biology Lab 7: Genetics of Drosophila by Bozeman Science 90,741 views 13 years ago 5 minutes, 25 seconds - Mr. Andersen describes the virtual **fly**, lab. Software at sciencecourseware.org allows for multiple matings and statistical analysis.

Introduction

Ordering a Fly

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