

Ecology

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Ecology is the scientific study of the distribution and abundance of living organisms and the interactions among organisms and between organisms and their environment. The environment of an organism includes both physical properties, which can be described as the sum of local abiotic factors such as insolation, climate, and geology, and biotic factors, which are other organisms that share its habitat. The word "ecology" is often used more loosely in such terms as social ecology and deep ecology and in common parlance as a synonym for the natural environment or environmentalism. Likewise "ecologic" or "ecological" is often taken in the sense of environmentally friendly. The term ecology or oekologie was coined by the German biologist Ernst Haeckel in 1866, when he defined it as "the comprehensive science of the relationship of the organism to the environment." Haeckel did not elaborate on the concept, and the first significant textbook on the subject was written by the Danish botanist, Eugenius Warming. For this early work, Warming is often identified as the founder of ecology.

Recent Publications on Ecology:



- [Feeding and morphological analysis of the digestive tract of four species of fish \(*Astyanax altiparanae*, *Parauchenipterus galeatus*, *Serrasalmus marginatus* and *Hoplias aff. malabaricus*\) from the upper Parana River floodplain, Brazil.](#)
The present study is inspired by the great wealth of species exhibited by... 4th October, 2008
Departamento de Ciencias Biologicas, Programa de Pos-Graduacao em Ecologia- Braz J Biol. 2008 Aug;68(3):671-9.
- [Polymicrobial nature of chronic diabetic foot ulcer biofilm infections determined using bacterial tag encoded FLX amplicon pyrosequencing \(bTEFAP\).](#)
BACKGROUND: Diabetic extremity ulcers are associated with chronic... 4th October, 2008
Research and Testing Laboratory, Lubbock, Texas, USA.- PLoS ONE. 2008 Oct 3;3(10):e3326. ([DOI Direct Link](#))
- [An intracellular antioxidant determines the expression of a melanin-based signal in a bird.](#)
To understand how traits used in animal communication evolved and are... 4th October, 2008
Department of Evolutionary Ecology of the Museo Nacional de Ciencias- PLoS ONE. 2008 Oct 3;3(10):e3335. ([DOI Direct Link](#))
- [The evolution of HoxD-11 expression in the bird wing: insights from *Alligator mississippiensis*.](#)
BACKGROUND: Comparative morphology identifies the digits of the wing of... 4th October, 2008
Department of Ecology and Evolutionary Biology, Yale University, New- PLoS ONE. 2008 Oct 3;3(10):e3325. ([DOI Direct Link](#))
- [Mutation and evolutionary rates in adelic penguins from the antarctic.](#)
Precise estimations of molecular rates are fundamental to our... 4th October, 2008
Allan Wilson Centre for Molecular Ecology and Evolution, School of- PLoS Genet. 2008 Oct

- 3;4(10):e1000209. ([DOI Direct Link](#))
- [Time-lapse analysis and mathematical characterization elucidate novel mechanisms underlying muscle morphogenesis.](#)
*Skeletal muscle morphogenesis transforms short muscle precursor cells into...*4th October, 2008
School of Biology and Ecology, University of Maine, Orono, Maine, United- PLoS Genet. 2008 Oct 3;4(10):e1000219. ([DOI Direct Link](#))
 - [Direct evidence of extensive diversity of HIV-1 in Kinshasa by 1960.](#)
*Human immunodeficiency virus type 1 (HIV-1) sequences that pre-date the...*4th October, 2008
Ecology and Evolutionary Biology, University of Arizona, Tucson, Arizona- Nature. 2008 Oct 2;455(7213):661-4. ([DOI Direct Link](#))
 - [Sensory ecology: in sight of speciation.](#)
*Human immunodeficiency virus type 1 (HIV-1) sequences that pre-date the...*4th October, 2008
- Nature. 2008 Oct 2;455(7213):601-2. ([DOI Direct Link](#))
 - [Ecology: Diatoms downsize.](#)
*Human immunodeficiency virus type 1 (HIV-1) sequences that pre-date the...*4th October, 2008
- Nature. 2008 Oct 2;455(7213):568. ([DOI Direct Link](#))
 - [Caries Ecology Revisited: Microbial Dynamics and the Caries Process.](#)
*In this essay we propose an extension of the caries ecological hypothesis...*4th October, 2008
Division of Oral Ecology and Biochemistry, Department of Oral Biology,- Caries Res. 2008 Oct 3;42(6):409-418. ([DOI Direct Link](#))
 - [Rates of molecular evolution are linked to life history in flowering plants.](#)
*Variable rates of molecular evolution have been documented across the tree...*4th October, 2008
Department of Ecology and Evolutionary Biology, 21 Sachem Street, Post- Science. 2008 Oct 3;322(5898):86-9. ([DOI Direct Link](#))
 - [Ecology. Bugs' bugs.](#)
*Variable rates of molecular evolution have been documented across the tree...*4th October, 2008
Department of Entomology, University of Illinois, Urbana, IL 61801, USA.- Science. 2008 Oct 3;322(5898):52-3. ([DOI Direct Link](#))
 - [Global associations between terrestrial producer and vertebrate consumer diversity.](#)
*In both ecology and conservation, often a strong positive association is...*4th October, 2008
Division of Biological Sciences, University of California San Diego, 9500- Proc Biol Sci. 2008 Oct 2. ([DOI Direct Link](#))
 - [Signaller: receiver coordination and the timing of communication in Amazonian birds.](#)
*The efficacy of communication relies on the detection of signals against...*4th October, 2008
Curriculum in Ecology, University of North Carolina-Chapel Hill, Chapel- Biol Lett. 2008 Sep 30. ([DOI Direct Link](#))
 - [Female mating receptivity after injection of male-derived extracts in *Callosobruchus maculatus*.](#)
*The effects of male-derived extracts on female receptivity were...*4th October, 2008
Laboratory of Evolutionary Ecology, Graduate School of Environmental- J Insect Physiol. 2008 Sep 10. ([DOI Direct Link](#))

BioNews Results for Ecology

- [Reproducing early and often is the key to](#)
Checkbiotech: Oct 3 2008 7:09PM Matching: ecology
- [Shift in bald eagle diet linked to sea otter decline](#)
Genetic Engineering News: Oct 3 2008 2:33PM Matching: ecology
- [BioScience Tip Sheet, October 2008](#)
American Institute of Biological Sciences: Oct 2 2008 7:06AM Matching: ecology
- [BioScience tip sheet, October 2008](#)

- Genetic Engineering News: Oct 1 2008 4:51AM Matching: ecology*
- [BioScience tip sheet, October 2008](#)
EurekAlert!: Oct 1 2008 4:16AM Matching: ecology
 - [Homeland Security Capital Corporation Posts \\$23.3 Million in Consolidated Revenues for the Transition Period E](#)
Genetic Engineering News: Sep 30 2008 1:13AM Matching: ecology
 - [Homeland Security Capital Corporation Posts \\$23.3 Million in Consolidated Revenues for the Transition Period E](#)
Genetic Engineering News: Sep 29 2008 11:47PM Matching: ecology
 - [Fishy Future Written In The Genes](#)
Science Daily: Sep 30 2008 9:29PM Matching: ecology
 - [DNA Tests Could Help Predict, Prevent Harmful Algal Blooms](#)
Science Daily: Sep 30 2008 9:31PM Matching: ecology
 - [Algal biomonitor](#)
Genetic Engineering News: Sep 30 2008 7:31PM Matching: ecology
 - [Traces of toxic anti-cancer drugs in tap water could prove fatal to unborn babies](#)
Mail Online UK: Sep 29 2008 5:56PM Matching: ecology
 - [Entomological Society of America names 2008 award winners](#)
Genetic Engineering News: Sep 29 2008 4:44AM Matching: ecology
 - [Captive Breeding Introduced Infectious Disease To Mallorcan Amphibians](#)
Science Daily: Sep 23 2008 1:44AM Matching: ecology
 - [Michigan briefcase: Students get auto design help](#)
The Detroit Free Press: Sep 21 2008 11:54AM Matching: ecology
 - [NSF, NIH award Ecology of Infectious Disease grants](#)
Firstscience.com: Sep 19 2008 2:39PM Matching: ecology

Ecology Clinical Trials:



- [Genomic Tools for Studying the Ecology of the Human Vaginal Microflora](#)
Healthy Intervention: 2 Active, not recruiting Long-Term Impact of Pneumococcal Conjugate Vaccine on Carriage

Ecology Patents:



- 7391420- [Graphical user interface graphics-based interpolated animation performance](#)
- 7407580- [System and method for treating carbon, nitrogen, phosphorous containing wastewater](#)
- 7407787- [Lactobacillus acidophilus nucleic acids encoding fructo-oligosaccharide utilization compounds and uses thereof](#)

- 7407793- [Consortium of nitrifying bacteria](#)
- 7407799- [Microfluidic chemostat](#)
- 7409556- [Hybrid digital watermarking for video authentication](#)
- 7410638- [Bacterial strains, genes and enzymes for control of bacterial diseases by quenching quorum-sensing signals](#)
- 7410969- [Antitumoral analogs of ET-743](#)
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- 7406436- [Method and apparatus for collecting, aggregating and providing post-sale market data for an item](#)
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