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Researchers in the field of ecological genomics aim to determine how a genome or a population of genomes interacts with its environment across ecological and evolutionary timescales. Ecological genomics is trans-disciplinary by nature. Ecologists have turned to genomics to be able to elucidate the mechanistic bases of the biodiversity their research tries to understand.

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Often associated with evolutionary, population, or functional genomics, with which it shares many of the same analytical tools and technologies, ecological genomics addresses interactions between environments and genomes, with the goal of gaining a better understanding of the roles organisms play in their ecosystems. Technological and analytical advances in 21st century underpin the emergence of ecological genomics as a coherent field of study.

Ecological Genomics - Ecology - Oxford Bibliographies

Ecological genomics meets community-level modelling of biodiversity: mapping the genomic landscape of current and future environmental adaptation ... Toward reliable habitat suitability and accessibility models in an era of multiple environmental stressors, Ecology and Evolution, 10.1002/ece3.6753, 10, 20, (10937-10952), (2020). Wiley Online ...

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Ecological genetics is the study of genetics in natural populations. Traits in a population can be observed and quantified to represent a species adapting to a changing environment. This contrasts with classical genetics, which works mostly on crosses between laboratory strains, and DNA sequence analysis, which studies genes at the molecular level. Research in this field is on traits of ecological significance; that is, traits related to fitness, which affect an organism's survival and ...

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Ecological Genomics: Ecology and the Evolution of Genes ...

We apply ecological genomics approaches to answer fundamental questions about adaptation and species survival. Our research interests fall into three themes, and are centred on tree species from the Indo-West Pacific region, with a focus on East and Southeast Asia: Adaptation of tropical trees to physiological stress. Present study system: mangroves.

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Ecological genomics is trans-disciplinary by nature. Ecologists have turned to genomics to be able to elucidate the mechanistic bases of the biodiversity their research tries to understand. Genomicists have turned to ecology in order to better explain the functional cellular and molecular variation they observed in their model organisms.

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Ecological Genetics and Genomics

Ecological Genomics is an integrative field of study that seeks to understand the genetic mechanisms underlying adaptive responses of organisms to their environment. The mission of the EGI is to advance the discipline of ecological genomics and to make EGI the center for ecological genomics locally, nationally, and internationally.