



Advances in Molecular Ecology

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Gary R. Carvalho

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NATO Science Series

Series A: Life Sciences - Vol. 306

Advances In Molecular Ecology

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Advances In Molecular Ecology:

Advances in Molecular Ecology Gary R. Carvalho, 1998 Each contributor to this publication was asked to examine how molecular genetic tools have contributed to their specific areas of consideration To increase the practical utility of the book a summary of software that is available for the analysis of data in molecular ecology is included *An Introduction to Molecular Ecology* Graham Rowe, Michael Sweet, Trevor John Clark Beebe, 2017 Revised edition of Introduction to molecular ecology Trevor J C Beebe Graham Rowe 2008 2nd ed **Molecular Ecology** Joanna R. Freeland, 2019-11-01 A fully updated guide to the increasingly prevalent use of molecular data in ecological studies Molecular ecology is concerned with how molecular biology and population genetics may help us to better understand aspects of ecology and evolution including local adaptation dispersal across landscapes phylogeography behavioral ecology and conservation biology As the technology driving genetic science has advanced so too has this fast moving and innovative discipline providing important insights into virtually all taxonomic groups This third edition of Molecular Ecology takes account of the breakthroughs achieved in recent years to give readers a thorough and up to date account of the field as it is today New topics covered in this book include next generation sequencing metabarcoding environmental DNA eDNA assays and epigenetics As one of molecular ecology's leading figures author Joanna Freeland also provides those new to the area with a full grounding in its fundamental concepts and principles This important text is presented in an accessible user friendly manner Offers a comprehensive introduction to molecular ecology Has been revised to reflect the field's most recent studies and research developments Includes new chapters covering topics such as landscape genetics metabarcoding and community genetics Rich in insights that will benefit anyone interested in the ecology and evolution of natural populations Molecular Ecology is an ideal guide for all students and professionals who wish to learn more about this exciting field *Molecular Methods in Ecology* Allan Baker, 2009-04-01 The incorporation of molecular methods in ecological research has added an exciting new dimension to conventional studies and opened windows into previously intractable areas of research at the interface between ecology and genetics Using these new methods it has now become routine to use genetic markers to study ecological phenomena from molecular sexing of individuals and parentage of offspring through to population structure of species and phylogenetic relationships of taxa These methods have stimulated an explosion of empirical and analytical developments in molecular ecology which have in turn increasingly attracted students and professional biologists eager to employ them in their studies Molecular Methods in Ecology traces the development of molecular ecology by reviewing basic molecular biological techniques and earlier methods such as protein electrophoresis DNA DNA hybridisation restriction analysis of DNA and DNA fingerprinting Later chapters review methods using newer classes of markers such as microsatellites introns MHC SSRs and AFLP markers in plants and molecular sexing in animals The strengths and limitations of methods are discussed and guidance is provided in selecting the most appropriate methods for particular problems in ecology This book will provide both postgraduates and researchers with

a guide to choosing and employing appropriate methodologies for successful research in the field of molecular ecology Provides up to date summaries of the latest molecular approaches in this rapidly expanding field Gives guidance on the appropriate choice of methods for particular problems in ecology and their strengths and limitations Provides brief laboratory protocols for each molecular method and summaries of software available for analysis of data in molecular ecology Outlines examples of the latest research results from studies of both plants and animals integrated within the framework of molecular ecology

Advances in Environmental Technologies III Ji Zhao,Aijie Wang,Xin Yong Li,Xiao Yi Wang,2014-06-18 Selected peer reviewed papers from the 2014 International Conference on Energy and Environmental Protection ICEEP 2014 April 26 28 2014 Xi an China

Advances in Bryology ,1981

Reintroduction Biology John G. Ewen,Doug P. Armstrong,Kevin A. Parker,Philip J. Seddon,2012-01-30 This book aims to further advance the field of reintroduction biology beyond the considerable progress made since the formation of the IUCN SSC Re introduction Specialist Group Using an issue based framework that purposely avoids a structure based on case studies the book s central theme is advocating a strategic approach to reintroduction where all actions are guided by explicit theoretical frameworks based on clearly defined objectives Issues covered include husbandry and intensive management monitoring and genetic and health management Although taxonomically neutral there is a recognised dominance of bird and mammal studies that reflects the published research in this field The structure and content are designed for use by people wanting to bridge the research management gap such as conservation managers wanting to expand their thinking about reintroduction related decisions or researchers who seek to make useful applied contributions to reintroduction

Mycological Inventions for Sustainable Agriculture and Food Production Kashyap, Arun Kumar,Jogawat, Abhimanyu,2025-03-14 Fungi play crucial roles in agriculture from symbiotic relationships with plants to decomposition of organic matter As concerns about environmental degradation and climate change escalate there s a growing recognition of the need for ecologically sound agricultural practices Fungi can contribute to restoring ecological balance by reducing dependence on synthetic inputs minimizing soil erosion and enhancing biodiversity Additionally mycological innovations offer promising solutions to enhance crop yields improve soil health and mitigate the impact of climate related stressors on agriculture Thus fungal based technologies are critical for bolstering food production sustainably and ensuring food security Mycological Inventions for Sustainable Agriculture and Food Production explores innovative ways to leverage fungi for sustainable agricultural practices It holds significant importance in addressing current agricultural challenges and fostering sustainable food systems Covering topics such as soil fertility fungal biostimulants and pest management this book is an excellent resource for agronomists mycologists agricultural engineers environmentalists farmers professionals researchers scholars academicians and more

Current Advances in Ecological & Environmental Sciences ,1995

Conservation and the Genomics of Populations Frederick William Allendorf,W. Chris Funk,Sally N. Aitken,Margaret Byrne,Gordon Luikart,2022 The third edition of this

Hellenic Fisheries Costas Papakonstantinou, 2007

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