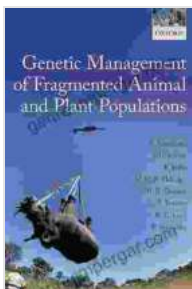


# Unveiling the Secrets of Genetic Management: Safeguarding Fragmented Animal and Plant Populations

In the face of habitat loss and fragmentation, the genetic health of animal and plant populations is under increasing threat. Genetic Management of Fragmented Animal and Plant Populations offers a comprehensive and evidence-based guide to managing genetic diversity in fragmented populations, ensuring their long-term survival and resilience.

This groundbreaking book, written by leading geneticists and conservation biologists, delves into the complex challenges posed by habitat fragmentation and provides innovative solutions for maintaining genetic connectivity and maximizing population viability. Through engaging chapters, readers will embark on a journey to understand the genetics of fragmented populations, assess the risks they face, and implement effective genetic management strategies.



## Genetic Management of Fragmented Animal and Plant Populations by Marc Bekoff

★★★★☆ 4.9 out of 5

Language : English  
File size : 14199 KB  
Screen Reader : Supported  
Print length : 432 pages  
Lending : Enabled  
Hardcover : 223 pages  
Item Weight : 10.18 pounds  
Dimensions : 6.14 x 0.56 x 9.21 inches  
X-Ray for textbooks : Enabled



- Reduced adaptive potential

li>Increased risk of extinction

## **Assessing Genetic Risks and Developing Management Strategies**

Genetic Management of Fragmented Animal and Plant Populations empowers readers with a comprehensive framework for assessing genetic risks and developing tailored management strategies. The book covers a range of topics, including:

1. Methods for quantifying genetic diversity
2. Identifying genetically distinct populations
3. Determining the effective population size
4. Estimating the rate of gene flow
5. Assessing the genetic consequences of fragmentation

Based on this thorough assessment, the book provides guidance on implementing effective management strategies, such as:

- Maintaining or restoring connectivity between populations
- Managing habitat to enhance gene flow
- Translocation or captive breeding programs
- Genetic rescue to supplement genetic diversity

## **Case Studies and Best Practices**

To illustrate the practical application of genetic management principles, the book presents a wealth of case studies showcasing successful conservation efforts. These case studies span a diverse range of species, including:

- Florida scrub-jay
- Northern spotted owl
- Giant panda
- Cheetah
- Coral reefs

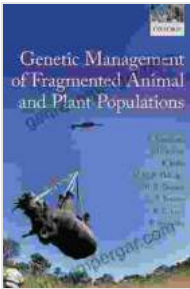
By examining the challenges and successes of these conservation programs, readers gain valuable insights into the complexities of genetic management and the importance of tailoring strategies to specific species and ecosystems.

### **Advancing Genetic Management for Conservation Success**

Genetic Management of Fragmented Animal and Plant Populations is an indispensable resource for wildlife managers, conservation biologists, geneticists, and anyone dedicated to safeguarding the genetic health of threatened species. This comprehensive guide provides the knowledge and tools necessary to effectively address the challenges of habitat fragmentation and ensure the long-term survival of our planet's diverse flora and fauna.

By embracing the principles and strategies outlined in this book, we can harness the power of genetic management to protect and restore

fragmented populations, ensuring the resilience of Earth's ecosystems for generations to come.



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