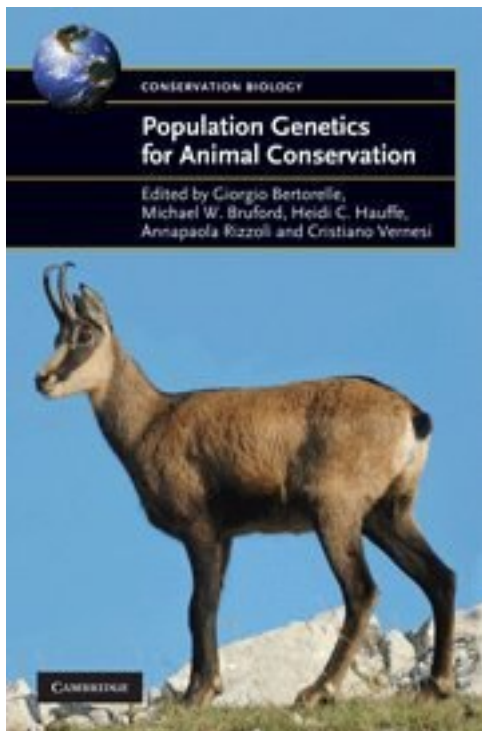


Population Genetics for Animal Conservation



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It is widely accepted among conservation biologists that genetics is, more than ever, an essential and efficient tool for wild and captive population management and reserve design. However, a true synergy between population genetics and conservation biology is lacking. Following the first International Workshop on Population Genetics for Animal Conservation in 2003 at the Centro di Ecologia Alpina, Trento, Italy (recently incorporated into the Edmund Mach Foundation), the scientific committee felt that, given the global urgency of animal conservation, it was imperative that discussions at the conference were made accessible to graduate students and wildlife managers. This book integrates 'the analytical methods approach' with the

'real problems approach' in conservation genetics. Each chapter is an exhaustive review of one area of expertise, and a special effort has been made to explain the statistical tools available for the analysis of molecular data as clearly as possible. The result is a comprehensive volume of the state of the art in conservation genetics, illustrating the power and utility of this synergy.

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Giorgio Bertorelle currently teaches Biometry, Phylogeny Reconstruction and Conservation Genetics at the University of Ferrara, Italy. He is the president and co-founder of the Italian Society for Evolutionary Biology.

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Heidi C. Hauffe trained in evolutionary biology and established the first genetics laboratory at the Centro di Ecologia Alpina, Trento, Italy, in 1997. Now at the Edmund Mach Foundation, her research interests range from rodent-borne viruses to speciation to conservation genetics of alpine mammals. She is currently affiliated to the University of York, UK, and the Institute of Vertebrate Biology, CZ.

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Cristiano Vernesi is a researcher at the Edmund Mach Foundation, Trento, Italy. He is also one of the founders and scientific director of the Association 'Biosfera', a non-profit association devoted to research and teaching in conservation biology.

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