1. Record Nr. UNINA9910777931803321

Titolo	Sensory evolution on the threshold [[electronic resource]] : adaptations in secondarily aquatic vertebrates / / edited by J.G.M. Thewissen and Sirpa Nummela
Pubbl/distr/stampa	Berkeley, : University of California Press, c2008
ISBN	1-282-35932-0 9786612359323 0-520-93412-1
Descrizione fisica	1 online resource (360 p.)
Altri autori (Persone)	ThewissenJ. G. M NummelaSirpa
Disciplina	591.4
Soggetti	Aquatic animals - Sense organs Aquatic animals - Adaptation Sense organs - Evolution
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Contents -- Contributors -- 1 • Introduction: On Becoming Aquatic -- 2 • The Physics and Biology of Olfaction and Taste -- 3 • The Chemical Stimulus and Its Detection -- 4 • Comparative Anatomy and Physiology of Chemical Senses in Amphibians -- 5 • Comparative Anatomy and Physiology of Chemical Senses in Nonavian Aquatic Reptiles -- 6 • Comparative Anatomy and Physiology of Chemical Senses in Aquatic Birds -- 7 • Comparative Anatomy and Physiology of Chemical Senses in Aquatic Mammals -- 8 • The Physics of Light in Air and Water -- 9 • Comparative Anatomy and Physiology of Vision in Aquatic Tetrapods -- 10 • Structure and Function of the Retina in Aquatic Tetrapods -- 11 • The Physics of Sound in Air and Water -- 12 • Comparative Anatomy and Function of Hearing in Aquatic Amphibians, Reptiles, and Birds -- 13. Hearing in Aquatic Mammals -- 14 • The Physics and Physiology of Balance -- 15 • Comparative and Functional Anatomy of Balance in Aquatic Reptiles and Birds -- 16 • Comparative and Functional Anatomy of Balance in Aquatic Mammals -- 17 • The Physics and Physiology of

	Mechanoreception -- 18 • Mechanoreception in Secondarily Aquatic Vertebrates -- 19 • Magnetoreception -- 20 • Electroreception -- 21 • Toward an Integrative Approach -- Index
Sommario/riassunto	From crocodiles and penguins to seals and whales, this comprehensive and authoritative synthesis explores the function and evolution of sensory systems in animals whose ancestors lived on land. Together, the contributors explore the dramatic transformation of smell, taste, sight, hearing, balance, mechanoreception, magnetoreception, and electroreception that occurred as lineages of amphibians, reptiles, birds, and mammals returned to aquatic environments. Each chapter integrates data from fields including sensory physiology, anatomy, paleontology, and neurobiology. A one-stop source for information on the sense organs of secondarily aquatic tetrapods, Sensory Evolution on the Threshold sheds new light on both the evolution of aquatic vertebrates and the sensory biology of their astonishing transition.

2.

Record Nr.	UNINA9910969906803321
Autore	Burel Francoise
Titolo	Landscape ecology : concepts, methods, and applications / / Francoise Burel, Jacques Baudry ; illustrations, Yannie Le Flem ; photographs, Jacques Baudry
Pubbl/distr/stampa	Enfield, N.H., : Science Publishers, c2003
ISBN	0-429-06399-7 1-4398-4417-8 1-281-94856-X 9786611948566 1-57808-657-4
Edizione	[First edition.]
Descrizione fisica	xvi, 362 p. : ill. (some col.), maps
Altri autori (Persone)	BaudryJacques
Disciplina	577.5/5
Soggetti	Landscape ecology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (p. [324]-352).
Nota di contenuto	part Part I: Introduction -- chapter 1 Definition of a Discipline --

chapter 2 Landscape Ecology. Definition of a Multidisciplinary Approach -- part Part II: Landscape Structure and Dynamics -- chapter 3 Analysis of Spatial Structures -- chapter 4 The Dynamics of Landscapes -- chapter 5 Organization of Landscapes -- part Part III: Ecological Processes within Landscapes -- chapter 6 The Functioning of Populations at the Landscape Level -- chapter 7 Interspecific Relationships and Biodiversity in Landscapes -- chapter 8 Geochemical Flows in Landscapes -- part Part IV: Applications to Landscape Management -- chapter 9 Application of Landscape Ecology Concepts to Landscape Management and Design.

Sommario/riassunto

"Part I: Introduction: Definition of a Discipline: Emergence of Landscape Ecology in the History of Ecology; Recognition of Heterogeneity in Ecological Systems; Taking Human Activities into Account in Ecological Systems; Explicit Accounting for Space and Time; Landscape Ecology is based on Scientific Theories Linked to Ecology and Related Disciplines Landscpe Ecology: Definition of a Multidisciplinary Approach: Landscape as Understood by the Ecologist; Landscape Ecology: An Interdisciplinary Approach; Landscape Ecology: Application of Results of Fundamental Research to Conservation Biology and Land Management Part II: Landscape Structure and Dynamics Analysis of Spatial Structures: Categories of Landscape Elements; From Sample Plots in a Wood to Woods in a Landscape; Typology of Patches and Corridors; Basic Concepts for Quantitative Approaches; Measurement of Heterogeneity; Fragmentation; Connectedness o Return to Scale Dependence: Contribution of Fractal Geometry o Elements of Geostatistics; Typologies of Landscape Structures; General Conclusion Dynamics of Landscapes: Questions on Organization and Dynamics of Landscapes Stemming from Observation; Changes in Land use on the Global Scale; Regional Approaches to Changes in Land Use: Variations Depending on Modes of Measurement; Local Approaches to Changes in Land Cover: Importance of Spatialization; Dynamics of Valley Landscapes: The Water Course and its Corridors; Dynamics of Non-Anthropogenic Landscapes; Land cover and Evolving Landscapes, a General Phenomenon Organization of Landscapes: Categories of Models; The Concept of Organization; Ecological Organization of Landscapes; From Farming Systems to Landscape Diversity; General Approach of Dynamics and Organization of Agrarian Landscapes; Landscape Dynamics and (Re) Organization: Multi-scale and Multidisciplinary Approach Part III: Ecological Processes within Landscapes: The Functioning of Populations at the Landscape Level: Patch Theory and Functioning of Metapopulations; Multi-habitat Species; Movement in Landscapes; Landscape Dynamics and the Functioning of Populations; Population Models used in Landscape Ecology Interspecific Relationships and Biodiversity in Landscapes: Interspecific Relationships; Biodiversity Geochemical Flows in Landscapes: Buffer Zones; Erosive Phenomena and Landscape Structure; Transfers in Watersheds; Conclusion Part IV: Applications to Landscape Management: Application of Landscape Ecology Concepts to Landscape Management and Design: Corridor Concept Applied to Development; Considering Landscape Ecology Concepts in Establishing Transportation Infrastructures; The Development of Rural Landscapes" --Provided by publisher.