Record Nr. UNINA9910163948203321 Advances in ecological research. Volume 45 The role of body size in **Titolo** multispecies systems / / edited by Andrea Belgrano, Julia Reiss Pubbl/distr/stampa Waltham, Mass., : Academic Press/Elsevier, 2011 **ISBN** 1-283-28823-0 9786613288233 0-12-386476-3 Edizione [1st ed.] Descrizione fisica 1 online resource (349 p.) Collana Advances in ecological research, , 0065-2504;; v. 45 Altri autori (Persone) BelgranoAndrea ReissJulia 574.5082 Disciplina 591.41 Animal ecology Soggetti Body size 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 Front Cover: The Role of Body Size in Multispecies Systems: Copyright: Contents; Contributors to Volume 45; Preface; The need for a more integrative approach to ecology and a return to the roots of the science: A changing world view?; Searching for simplifying rules within a complex science: The division and reconnection of fisheries science and ecology; Individual-based Data and the "Curse of the Latin

science; A changing world view?; Searching for simplifying rules within a complex science; The division and reconnection of fisheries science and ecology; Individual-based Data and the "Curse of the Latin Binomial"; Beyond taxonomy and body size?; Acknowledgments; References; Chapter 1: Determinants of Density-Body Size Scaling Within Food Webs and Tools for Their Detection; Abstract I IntroductionII Density-Mass from Different Angles; III DMR and Food Webs; A Trophic Position; B Gape Limitation and DMR; C Discontinuities and the DMR; IV Statistical Issues; A Frequency Distribution; B Bivariate Relationships; C Multiple DMR in the Same Dataset; V DMR and Its Detection in a Metacommunity; A Study System; B Five DMRs in a Single System; C Cross-Community at Different Levels; D Amphibians as an Example of Discontinuous DMR; E Evaluation of Methodological Performance; VI Conclusions; Acknowledgments; References Chapter 2: Predicted Effects of Behavioural Movement and Passive

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Sommario/riassunto

The general theme is being based around the ongoing European Science Foundation SIZEMIC Research Network, which has been running for several years. The network has focused on the role of body size in ecosystems and embraces a wide remit that spans all ecosystem types and a range of disciplines, from theoretical to applied ecology. Updates and informs the reader on the latest research findingsWritten by leading experts in the fieldHighlights areas for future investigation