1. Record Nr. UNINA9910461756603321

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| Titolo | Biogeography of microscopic organisms : is everything small everywhere? / / edited by Diego Fontaneto [[electronic resource]] |
| Pubbl/distr/stampa | Cambridge : , : Cambridge University Press, , 2011 |
| ISBN | 1-139-06344-8<br>1-107-21759-8<br>1-283-12727-X<br>9786613127273<br>1-139-07576-4<br>0-511-97487-6<br>1-139-08031-8<br>1-139-07802-X<br>1-139-07001-0<br>1-139-08259-0 |
| Descrizione fisica | 1 online resource (x, 365 pages) : digital, PDF file(s) |
| Collana | Systematics Association special volume series |
| Disciplina | 579/.17 |
| Soggetti | Microorganisms - Geographical distribution |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Title from publisher's bibliographic system (viewed on 05 Oct 2015). |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Why biogeography of microorganisms? / Diego Fontaneto and Juliet Brodie -- Historical biogeography, microbial endemism and the role of classification: everything is endemic / David M. Williams -- Biogeography of prokaryotes / Donnabella C. Lacap, Maggie C.Y. Lau and Stephen B. Pointing -- Thermophilic bacteria in cool soils: metabolic activity and mechanisms or dispersal / Roger Marchant, Ibrahim M. Banat and Andrea Franzetti -- Dispersal of protists: the role of cysts and human introductions / Wilhelm Foissner -- Everything is everywhere: a twenty-first century de-/reconstruction with respect to protists / David Bass and Jens Boenigk -- Arcellinida testate amoebae (Amoebozoa: Arcellinida): model of organisms for assessing microbial biogeography / Thierry J. Heger, Enrique Lara and Edward A.D. Mitchell -- Everything is not everywhere: the distribution of cactophilic yeast / |

Philip F. Ganter -- Coalescent analyses reveal contrasting patterns of intercontinental gene flow in arctic-alpine and boreal-temperate fungi / Jozsef Geml -- Biogeography and phylogeography of lichen fungi and their photoblonts / Silke Werth -- Biogeography of mosses and allies: does size matter? / Nagore G. Medina, Isabel Draper and Francisco Lara -- Dispersal limitations of habitat quality: what shapes the distribution ranges of ferns? / Hanno Schaefer -- Ubiquity of microscopic animals? Evidence from the morphological approach in species identification / Tom Artois [and others] -- Molecular approach to micrometazoans. Are they here, there and everywhere? / Noemi Guil -- Microbes as a test of biogeographic principles / David G. Jenkins, Kim A. Medley and Rima B. Franklin -- A metacommunity perspective on the phylo- and biogeography of small organisms / Luc de Meester -- Geographic variation in the diversity of microbial communities: research directions and prospects for experimental biogeography / Joaquin Hortal.

Sommario/riassunto

Bringing together the viewpoints of leading experts in taxonomy, ecology and biogeography of different taxa, this book synthesises discussion surrounding the so-called 'everything is everywhere' hypothesis. It addresses the processes that generate spatial patterns of diversity and biogeography in organisms that can potentially be cosmopolitan. The contributors discuss questions such as: are microorganisms (e.g. prokaryotes, protists, algae, yeast and microscopic fungi, plants and animals) really cosmopolitan in their distribution? What are the biological properties that allow such potential distribution? Are there processes that would limit their distribution? Are microorganisms intrinsically different from macroscopic ones? What can microorganisms tell us about the generalities of biogeography? Can they be used for experimental biogeography? Written for graduate students and academic researchers, the book promotes a more complete understanding of the spatial patterns and the general processes in biogeography.