Record Nr. UNINA9910806247703321 Biogeography of microscopic organisms: is everything small **Titolo** everywhere? / / edited by Diego Fontaneto [[electronic resource]] Pubbl/distr/stampa Cambridge:,: Cambridge University Press,, 2011 **ISBN** 1-139-06344-8 1-107-21759-8 1-283-12727-X 9786613127273 1-139-07576-4 0-511-97487-6 1-139-08031-8 1-139-07802-X 1-139-07001-0 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 Microorganisms - Geographical distribution Soggetti Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Title from publisher's bibliographic system (viewed on 05 Oct 2015). Includes bibliographical references and index. Nota di bibliografia 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 prokarvotes / 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 /

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## 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.