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Titolo	Systematics and Evolution : Part B // edited by David J. McLaughlin, Joseph W. Spatafora
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ISBN	3-662-46011-4
Edizione	[2nd ed. 2015.]
Descrizione fisica	1 online resource (327 p.)
Collana	The Mycota, A Comprehensive Treatise on Fungi as Experimental Systems for Basic and Applied Research, , 2945-8056 ; ; 7B
Disciplina	570 576.8 578.012 578.09 579
Soggetti	Microbiology Plants - Evolution Evolution (Biology) Plant Evolution Evolutionary Biology
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 at the end of each chapters and index.
Nota di contenuto	Saccharomycotina and Taphrinomycotina – The Yeasts and Yeast-like Fungi of the Ascomycota -- Pezizomycotina: Pezizomycetes, Orbiliomycetes -- Pezizomycotina: Sordariomycetes, Leotiomycetes -- Pezizomycotina: Lecanoromycetes -- Pezizomycotina: Eurotiomycetes -- Pezizomycotina: Dothideomycetes and Arthoniomycetes -- The Shifting Sands of Fungal Naming Under the ICN and the one Name Era for Fungi -- The Role of Herbaria and Culture Collections -- Subcellular Structure and Biochemical Characters in Fungal Phylogeny -- Fungal Diversity in the Fossil Record -- Phylogenomics Enabling Genomic Based Mycology.
Sommario/riassunto	This volume includes treatments of systematics and related topics for both fungi and fungus-like organisms in four eukaryotic supergroups,

as well as specialized chapters on nomenclature, techniques and evolution. These organisms are of great interest to mycologists, plant pathologists and others, including those interested in the animal parasitic Microsporidia. Our knowledge of the systematics and evolution of fungi has made great strides since the first edition of this volume, largely driven by molecular phylogenetic analyses. Consensus among mycologists has led to a stable systematic treatment that has since become widely adopted and is incorporated into this second edition, along with a great deal of new information on evolution and ecology. The systematic chapters cover occurrence, distribution, economic importance, morphology and ultrastructure, development of taxonomic theory, classification, and maintenance and culture. Other chapters deal with nomenclatural changes necessitated by revisions of the International Code of Nomenclature for algae, fungi and plants, including the elimination of separate names for asexual states, as well as methods for preservation of cultures and specimens, character evolution and methods for ultrastructural study, the fungal fossil record, and the impact of whole genomes on fungal studies. .

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