

---

## Contents

1 Fungi from PCR to Genomics: The Spreading Revolution in Evolutionary Biology .....	1
JOHN W. TAYLOR, MARY L. BERBEE	

### Fungal-Like Organisms

2 Excavata: Acrasiomycota; Amoebozoa: Dictyosteliomycota, Myxomycota .....	21
STEVEN L. STEPHENSON	
3 Systematics of the Straminipila: Labyrinthulomycota, Hyphochytriomycota, and Oomycota .....	39
GORDON W. BEAKES, DAISKE HONDA, MARCO THINES	
4 Rhizaria: Phytomyxea .....	99
SIMON BULMAN, JAMES P. BRASELTON	

### Fungi

5 Microsporidia .....	115
ELIZABETH S. DIDIER, JAMES J. BECNEL, MICHAEL L. KENT, JUSTIN L. SANDERS, LOUIS M. WEISS	
6 Chytridiomycota, Monoblepharidomycota, and Neocallimastigomycota .....	141
MARTHA J. POWELL, PETER M. LETCHER	
7 Blastocladiomycota .....	177
TIMOTHY Y. JAMES, TERESITA M. PORTER, W. WALLACE MARTIN	
8 Zygomycetous Fungi: Phylum Entomophthoromycota and Subphyla Kickxellomycotina, Mortierellomycotina, Mucoromycotina, and Zoopagomycotina .....	209
GERALD L. BENNY, RICHARD A. HUMBER, KERSTIN VOIGT	
9 Glomeromycota .....	251
D. REDECKER, A. SCHÜßLER	

10	Pucciniomycotina .....	271
	M. CATHERINE AIME, MERJE TOOME, DAVID J. McLAUGHLIN	
11	Ustilaginomycotina .....	295
	D. BEGEROW, A.M. SCHÄFER, R. KELLNER, A. YURKOV, M. KEMLER, F. OBERWINKLER, R. BAUER	
12	Tremellomycetes and Related Groups .....	331
	MICHAEL WEISS, ROBERT BAUER, JOSÉ PAULO SAMPAIO, FRANZ OBERWINKLER	
13	Dacrymycetes .....	357
	FRANZ OBERWINKLER	
14	Agaricomycetes .....	373
	D.S. HIBBETT, R. BAUER, M. BINDER, A.J. GIACHINI, K. HOSAKA, A. JUSTO, E. LARSSON, K.H. LARSSON, J.D. LAWREY, O. MIETTINEN, L.G. NAGY, R.H. NILSSON, M. WEISS, R.G. THORN	
	Biosystematic Index .....	431
	Subject Index .....	451

Systematics and Evolution

Part A

McLaughlin, D.; Spatafora, J.W. (Eds.)

2014, XXV, 461 p. 91 illus., 16 illus. in color., Hardcover

ISBN: 978-3-642-55317-2