

1. Record Nr.	UNINA9910830857203321
Titolo	The septins [[electronic resource] /] / edited by Peter A. Hall, S.E. Hilary Russell and John R. Pringle
Pubbl/distr/stampa	Oxford ; ; Hoboken, NJ, : John Wiley-Blackwell, 2008
ISBN	1-282-35009-9 9786612350092 0-470-77970-5 0-470-77969-1
Descrizione fisica	1 online resource (390 p.)
Altri autori (Persone)	HallPeter <1936-1996.> RussellS. E. Hilary PringleJohn R. <1943->
Disciplina	571.84 572.6
Soggetti	Septins Proteins
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	The Septins; Contents; Authors and Affiliations; An introduction to the septins; Section I Setting the scene; Chapter 1 Origins and development of the septin field; Chapter 2 Evolution and conserved domains of the septins; Section II Septins in model systems; Chapter 3 Biochemical properties and supramolecular architecture of septin hetero-oligomers and septin filaments; Chapter 4 Yeast septins: a cortical organizer; Chapter 5 Septins in four model fungal systems: diversity in form and function; Chapter 6 Septins in the metazoan model systems Drosophila melanogaster and Caenorhabditis elegans Section III Septins in mammalsChapter 7 The genomics and regulation of the human septin genes; Chapter 8 The functions of septins in mammals; Chapter 9 Septin-interacting proteins in mammals; Chapter 10 Septin functions in the mammalian cytoskeleton; Chapter 11 Septins and the synapse; Chapter 12 Septins and platelets; Chapter 13 Septins and apoptosis; Chapter 14 Septins and human disease; Chapter 15 Insight into septin functions from mouse models; Section IV Envoi;

Chapter 16 Septins: 2008 and beyond; Appendix A Septin and septin-like sequences; Appendix B Mammalian septin nomenclature  
Appendix C Septin meetings and workshopsIndex; Color Plates

---

Sommario/riassunto

""The authors represent most of the key figures and the work and the book as a whole is an essential reference for the newcomer or specialist in this area and for any student of eukaryotic cell structure and function. This is an important and wonderful reference."" -Microbiology Today, May 2009 Septins are an evolutionarily conserved group of GTP-binding and filament-forming proteins that were originally discovered in yeast. Once the preserve of a small band of yeast biologists, the field has grown rapidly in the past few years and now encompasses the whole of animal and fun

---