

1. Record Nr.	UNINA9910810433203321
Titolo	Investigations in yeast functional genomics and molecular biology // edited by Matthew Eckwahl, MPhil
Pubbl/distr/stampa	Toronto : , : Apple Academic Press, , [2014] ©2014
ISBN	0-429-15753-3 1-4822-4096-3
Descrizione fisica	1 online resource (404 p.)
Disciplina	571.6/29563
Soggetti	Saccharomyces cerevisiae - Molecular genetics Yeast fungi - Molecular genetics Yeast fungi - Biotechnology Molecular genetics - Technique Molecular 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.
Nota di contenuto	Front Cover; About the Editor; Contents; Acknowledgment and How to Cite; List of Contributors; Introduction; Part I: Cell Polarity, Growth, and Cell Cycle; Chapter 1: Daughter-Specific Transcription Factors Regulate Cell Size Control in Budding Yeast; Chapter 2: Modeling Robustness Tradeoffs in Yeast Cell Polarization Induced by Spatial Gradients; Chapter 3: Multisite Phosphorylation of the Guanine Nucleotide Exchange Factor Cdc24 during Yeast Cell Polarization; Part II: Yeast Regulatory Circuits Chapter 4: Roles of Candida albicans Gat2, a GATA-Type Zinc Finger Transcription Factor, in Biofilm Formation, Filamentous Growth and Virulence Chapter 5: Deciphering Human Heat Shock Transcription Factor 1 Regulation via Post-Translational Modification in Yeast; Chapter 6: Environmental Regulation of Prions in Yeast; Chapter 7: Heterologous Gln/Asn-Rich Proteins Impede the Propagation of Yeast Prions by Altering Chaperone Availability; Part III: Gene Expression and Trait Locus Analysis; Chapter 8: Strategy of Transcription Regulation in the Budding Yeast

Chapter 9: A Screen for RNA-Binding Proteins in Yeast Indicates Dual Functions for Many EnzymesChapter 10: Genetic Landscape of Open Chromatin in Yeast; Part IV: Comparative Genomics; Chapter 11: High Quality de novo Sequencing and Assembly of the *Saccharomyces Arboricolus* Genome; Chapter 12: Comparative Gene Expression between Two Yeast Species; Chapter 13: Whole-Genome Comparison Reveals Novel Genetic Elements that Characterize the Genome of Industrial Strains of *Saccharomyces cerevisiae*; Author Notes

Sommario/riassunto

This book examines conserved pathways mediating cell cycle progression and cell polarity establishment. It includes examples of yeast, regulatory circuits, and feedback regulation, with emphasis on system-wide approaches. It also covers protein interaction networks and trait locus analysis and presents methods and challenges in comparative genomics analysis and evolutionary genetics.
