1. Record Nr. UNINA9911019954503321

Autore	Blankenship Robert E
Titolo	Molecular mechanisms of photosynthesis [[electronic resource] /] / Robert E. Blankenship
Pubbl/distr/stampa	Oxford ; ; Malden, MA, : Blackwell Science, 2002
ISBN	1-281-32138-9 9786611321383 0-470-75847-3 0-470-75846-5
Descrizione fisica	1 online resource (338 p.)
Disciplina	572.46 572/.46 573.46
Soggetti	Photosynthesis - Molecular aspects Photosynthesis 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 and index.
Nota di contenuto	Molecular Mechanisms of Photosynthesis; Contents; Preface; Acknowledgments; 1 The Basic Principles of Photosynthetic Energy Storage; 2 Photosynthetic Organisms and Organelles; 3 History and Early Development of Photosynthesis; 4 Photosynthetic Pigments: Structure and Spectroscopy; 5 Antenna Complexes and Energy Transfer Processes; 6 Reaction Center Complexes; Color Plates; 7 Electron Transfer Pathways and Components; 8 Chemiosmotic Coupling and ATP Synthesis; 9 Carbon Metabolism; 10 Genetics, Assembly and Regulation of Photosynthetic Systems; 11 Origin and Evolution of Photosynthesis Appendix: Light, Energy and KineticsIndex
Sommario/riassunto	Molecular Mechanisms of Photosynthesis stands as an ideal introduction to this subject. Robert Blankenship, a leading authority in photosynthesis research, offers a modern approach to photosynthesis in this accessible and well-illustrated text. The book provides a concise overview of the basic principles of energy storage and the history of the

field, then progresses into more advanced topics such as electron transfer pathways, kinetics, genetic manipulations, and evolution. Throughout, Blankenship includes an interdisciplinary emphasis that makes this book appealing across fields.