

1. Record Nr.	UNINA9910818427703321
Autore	Tarnapol Witacre Paula
Titolo	Implementing the new biology [[electronic resource] ] : decadal challenges linking food, energy, and the environment : summary of a workshop, June 3-4, 2010 // Paula Tarnapol Whitacre ... [et al.] ; Planning Committee on Achieving Research Synergies for Food/Energy/Environment Challenges: a Workshop to Explore the Potential of the "New Biology"
Pubbl/distr/stampa	Washington, D.C., : National Academies Press, 2010
ISBN	0-309-18654-4 1-282-97604-4 9786612976049 0-309-16195-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (53 p.)
Altri autori (Persone)	WhitacrePaula
Disciplina	333.7916
Soggetti	Biology - Technological innovations
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.
Nota di contenuto	""Front Matter""; ""Acknowledgments""; ""Contents""; ""1 A Vision for the Twenty-First Century: Carbon-Neutral Food and Fuel""; ""2 Developing the Vision: Highlights of the Workshop""; ""3 Wrap-up and Next Steps""; ""References""; ""Appendix A: Workshop Steering Group""; ""Appendix B: Workshop Background""
Sommario/riassunto	"As the second decade of the 21st century begins, the challenge of how to feed a growing world population and provide sustainable, affordable energy to fulfill daily needs, while also improving human health and protecting the environment, is clear and urgent. Increasing demand for food and energy is projected at the same time as the supply of land and other resources decrease. Increasing levels of greenhouse gasses alter climate, which, in turn, has life-changing implications for a broad range of plant and animal species. But promising developments are on the horizon--scientific discoveries and technologies that have the potential to contribute practical solutions to these seemingly intractable problems. As described in the 2009 National Research

Council book, *A New Biology for the 21st Century*, biological research has experienced extraordinary scientific and technological advances in recent years that have allowed biologists to collect and make sense of ever more detailed observations at ever smaller time intervals. With these advances have come increasingly fruitful collaborations of biologists with scientists and engineers from other disciplines. *A New Biology for the 21st Century* called for a series of workshops to provide concrete examples of what New Biology research programs could look like. The present volume summarizes the first of those workshops, *Implementing the New Biology: Decadal Challenges Linking Food, Energy, and the Environment*. "--Publisher's description.

---