1. Record Nr. UNINA9910960573203321

Titolo	Transgenic plants : recent developments / / Shen Yao Zhu and Jiang Lo Hu, editors
Pubbl/distr/stampa	New York, : Nova Science Publishers, 2012
ISBN	1-62257-266-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (157 p.)
Collana	Botanical research and practices Genetics--research and issues
Altri autori (Persone)	ZhuShen Yao HuJiang Lo
Disciplina	632/.8
Soggetti	Transgenic plants Transgenic plants - Risk assessment Plant genetic engineering
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	Plant leaf decomposition, DNA release, persistence and transfer into the environment / John Pote, Walter Wildi -- Establishment of light formula and light environmental management strategy for high-efficient plant cultivation with artificial light sources / Wenke Liu ... [et al.] -- Harvest-inducible genes and promoters in alfalfa / Jian Zhang, Larry R. Erickson -- Toxic impacts of three veterinary antibiotics on seed germination and growth as well as nutritional quality of vegetables / Lian Feng Du ... [et al.] -- Growth responses of Bt and non-Bt cottons to soil phosphorus, copper and cadmium levels / Lianfeng Du ... [et al.] -- The application of site-specific recombination systems for biosafety and genome manipulation in the production of transgenic plants / Yuan-Yeu Yau, Ludmila Tyler -- Amplification of small interfering RNAs in transgenic plants / Hiroaki Kodama ... [et al.].
Sommario/riassunto	Plants whose DNA is modified using genetic engineering techniques are known as transgenic plants. In most cases the aim is to introduce a new trait to the plant which does not occur naturally in this species. Examples include resistance to certain pests, diseases or environmental conditions, or the production of a certain nutrient or pharmaceutical agent. This new book gathers and presents current research on

transgenic plants including an examination of the release, persistence and transport of transgenic plant DNA in saturated and unsaturated mediums, such as soils and sediments; high-efficient plant cultivation with artificial light sources; the impact of three antibiotics on seed germination, hydroponic growth and nutritional qualities of vegetables; growth responses of Bt and non-Bt cottons to soil phosphorous, copper and cadmium levels; site-specific recombination systems for genome manipulation in transgenic plants; and amplification of small interfering RNAs in transgenic plants.