

1. Record Nr.	UNINA9910373899003321
Titolo	Systems and Synthetic Biotechnology for Production of Nutraceuticals / / edited by Long Liu, Jian Chen
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-15-0446-6
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (V, 208 p. 38 illus., 28 illus. in color.)
Disciplina	660.62
Soggetti	Food—Biotechnology Biology—Technique Food Science Biological Techniques Aliments funcionals Biotechnologia alimentària Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Nutraceuticals: definition, kinds and applications -- Construction of microbial cell factories by systems and synthetic biotechnology -- Microbial production of functional organic acids -- Microbial production of oligosaccharides and polysaccharides -- Microbial production of flavonoids -- Microbial production of natural food colorants -- Microbial production of vitamins -- Microbial production of oils and fatty acids -- Microbial production of nutraceuticals: challenges and prospects. .
Sommario/riassunto	This book discusses systems and synthetic biotechnologies for the production of nutraceuticals, and summarizes recent advances in nutraceutical research in terms of the physiological effects on health, potential applications, drawbacks of traditional production processes, characteristics of production strains, and advances in microbial production based on systems and synthetic biotechnology. It also examines future directions in the microbial production of nutraceuticals using systems and synthetic biology. The book is intended for researchers and graduate students in the field of molecular biology and

industrial biotechnology as well as staff working in the nutraceutical industry.
