1. Record Nr. UNINA9910787766003321

Titolo	Microfluidic devices for biomedical applications / / edited by Xiujun (James) Li and Yu Zhou
Pubbl/distr/stampa	Cambridge, UK : , : Woodhead Publishing, , 2013
ISBN	0-85709-704-0
Descrizione fisica	1 online resource (xxiii, 652 pages, 12 unnumbered pages of plates) : illustrations (some color)
Collana	Woodhead Publishing series in biomaterials, , 2049-9485 ; ; number 61
Disciplina	621.3815
Soggetti	Microfluidic devices Biomedical materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"ISSN: 2049-9485."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	part I. Fundamentals of microfluidic technologies for biomedical applications -- part II. Applications of microfluidic devices for drug delivery and discovery -- part III. Applications of microfluidic devices for cellular analysis and tissue engineering -- part IV. Applications of microfluidic devices in diagnostic sensing.
Sommario/riassunto	Microfluidics or lab-on-a-chip (LOC) is an important technology suitable for numerous applications from drug delivery to tissue engineering. Microfluidic devices for biomedical applications discusses the fundamentals of microfluidics and explores in detail a wide range of medical applications.The first part of the book reviews the fundamentals of microfluidic technologies for biomedical applications with chapters focussing on the materials and methods for microfabrication, microfluidic actuation mechanisms and digital microfluidic technologies. Chapters in part two examine applications