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Titolo	Regenerative medicine technology : on-a-chip applications for disease modeling, drug discovery and personalized medicine // edited by Sean V. Murphy and Anthony Atala
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Descrizione fisica	1 online resource (459 pages) : illustrations (some color)
Collana	Gene and cell therapy series
Disciplina	610.28/4
Soggetti	Artificial organs Personalized medicine Regenerative medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Microfabrication and 3-D bioprinting of organs-on-a-chip -- Three-dimensional cell culture -- Electrochemical sensors for organs-on-a-chip -- Microfluidics -- From big data to predictive analysis from in vitro systems -- Lab-on-a-chip systems for biomedical applications -- From 2D culture to 3D microchip models : trachea, bronchi/bronchiole and lung biomimetic models for disease modeling, drug discovery and personalized medicine -- Liver and liver cancer-on-a-chip -- Heart-on-a-chip -- Skin-on-a-chip -- Tissue engineered kidney models -- Body-on-a-chip -- Integrated multi-organoid dynamics -- Cancer metastasis-on-a-chip -- Breast cancer-on-a-chip -- Disease modeling -- In vivo, in vitro and stem cell technologies to predict human pharmacology and toxicology -- Personalized medicine.