

1. Record Nr.	UNINA9910815652903321
Autore	Kohlmann Manuel
Titolo	Design of a single well bioreactor-incubator system with sterile nutrient media supply [[electronic resource] /] / Manuel Kohlmann
Pubbl/distr/stampa	Hamburg, : Diplomica Verlag, 2011
ISBN	3-8428-0894-1
Descrizione fisica	1 online resource (103 p.)
Disciplina	660/.6
Soggetti	Bioreactors Incubators Culture media (Biology)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from cover.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Design of a Single Well Bioreactor-Incubator System with Sterile Nutrient Media Supply
Sommario/riassunto	HauptbeschreibungPerfused bioreactors have been developed with different designs and with various cell lines such as fibroblasts, osteoblasts and C2C12 myoblasts. All these current systems are custom made and mostly capable for only one cell type. Small seeding spaces and chambers inhibit longer cell studies and the observation of cell interaction. This study presents an advanced perfusion bioreactor which allows cell observation for longer than 5 days on an area of 2.8 cm <sup>2</sup> with a volume of 17ml. Initial experiments investigated homogeneity of the heat distribution, which is prec