
Microenvironmental Control Microfluidic Bioreactors Long

engineering stem cell niches in bioreactors - researchgate - engineering stem cell niches in bioreactors meimei liu, ning liu, ru zang, yan li, shang-tian yang meimei liu, ning liu, ru zang, shang-tian yang, william g **biosensors and bioelectronics - universit  du luxembourg** - generic and consistent miniaturization, integration, automation and parallelization of (bio-)chemical processes (mark et al., 2010). the application of microfluidics to biology and medicine has lead **chris cannizzaro gordana vunjak-novakovic** - microenvironmental control and biophysical regulation of cultured hescs. first, a bioactive hydrogel based culture first, a bioactive hydrogel based culture system was designed to provide a defined 3d environment for propagation of hescs. **a practical guide to microfluidic perfusion culture of ...** - a practical guide to microfluidic perfusion culture of adherent mammalian cells{ lily kim,şab yi-chin toh,şcd joel voldman"*a and hanry yu"*cdefgh received 28th march 2007, accepted 16th april 2007 first published as an advance article on the web 11th may 2007 doi: 10.1039/b704602b culturing cells at microscales allows control over microenvironmental cues, such as cell-cell and cell ... **technical program - aiche** - 8:10am - 8:50am invited speaker: peter zandstra, university of toronto control of auto-regulatory signaling to modulate embryonic stem cell self-renewal and differentiation 8:50am - 9:10am krishnendu roy, the university of texas at austin engineering intercellular signals of thymic niche: towards generation of functional t cells **mixing in an enclosed microfluidic chamber through moving ...** - the microfluidic mixer included mainly four layers of microstructures: the control channels, the flow channels, the chambers and a glass substrate (located from top to bot- **pe respective - massachusetts institute of technology** - control of system parameters. microfluidic chips provide control over many system parameters that are not easily controlled in 3d static cultures or bioreactors, facilitat-ing study of a broad array of physiological phenomena. because these devices are fully microengineered, they can be integrated with microsensors that report on the cultured cells or microenvironmental conditions, which is ... **a portable microscale cell culture system with indirect ...** - microfluidic systems is a fascinating approach due to its better control over the physiological culturing conditions. 7-9 other advantages of using these devices are their faster response times, lower fabrication costs and power requirements, and smaller reagent consumptions. **bioengineered models to study tumor dormancy** - dormancy. these models include biomaterial based three dimensional models, microfluidic based models, as well as bioreactor based models that incorporate relevant microenvironmental components such as extracellular matrix molecules, niche cells, or their combination to study microenvironmental regulation of tumor dormancy. such biomimetic models provide suitable platforms to investigate the ... **tissue biochips - a-star** - microenvironmental pressures can be designed to shape hsc response, an approach which may provide significant mechanistic detail concerning extrinsic regulation of hsc fate decisions as well as insight regarding the design of ex vivo bone marrow bioreactors. **face page for progress report 2012 final rough draft ljm** - (biomems), the breast cancer tissue bioreactor that will support the combination of the 3-d culture methodology with control over microenvironmental oxygen and matrix stiffness to better approximate the in vivo tumor microenvironment ex vivo. **microscale strategies for generating cell-encapsulating ...** - these constructs are cultured in petri dishes, stirred vessels or microfluidic devices. inside these bioreactors, the polymer is degraded by the cells over time and replaced with the extracellular matrix (ecm), forming living tissue [8]. **donna stolz nih public access author manuscript 1,*** - micro- and nano-fabrication, biomaterials, microfluidic, and other technologies potentially afford unprecedented opportunity to create microphysiological models of human liver, but engineering design principles for how to deploy these tools effectively towards specific applications, including **award number: w81xwh-10-1-0157 principal investigator ...** - cancer tissue bioreactor that will support the combination of the 3-d culture methodology with control over microenvironmental oxygen and matrix stiffness to better approximate the in vivo tumor microenvironment ex vivo.

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