



3D Cell-Based Biosensors in Drug Discovery Programs: Microtissue Engineering for High Throughput Screening (Hardback)

By William S. Kisaalita

Taylor Francis Inc, United States, 2010. Hardback. Condition: New. Language: English . Brand New Book. Advances in genomics and combinatorial chemistry during the past two decades inspired innovative technologies and changes in the discovery and pre-clinical development paradigm with the goal of accelerating the process of bringing therapeutic drugs to market. Written by William Kisaalita, one of the foremost experts in this field, 3D Cell-Based Biosensors in Drug Discovery Programs: Microtissue Engineering for High Throughput Screening provides the latest information - from theory to practice - on challenges and opportunities for incorporating 3D cell-based biosensors or assays in drug discovery programs. The book supplies a historical perspective and defines the problem 3D cultures can solve. It also discusses how genomics and combinatorial chemistry have changed the way drug are discovered and presents data from the literature to underscore the less-than-desirable pharmaceutical industry performance under the new paradigm. The author uses results from his lab and those of other investigators to show how 3D micro environments create cell culture models that more closely reflect normal in vivo-like cell morphology and function. He makes a case for validated biomarkers for three-dimensionality in vitro and discusses the advantages and disadvantages of promising tools...



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