

## Recent patent applications in high-throughput drug screening

Patent number	Description	Assignee	Inventor	Priority application date	Publication date
US 20100056390	A three-dimensional cell culture system comprising a cell of interest and a natural or synthetic hydrogel incorporating the cell of interest; useful in an apparatus for high-throughput drug screening.	Fischbach C	Fischbach C	7/29/2008	3/4/2010
US 20100041901	A new fluorescent compound having a central linker element linking two 6,5-ring systems or two 6,6,5-ring systems; useful as a fluorescent reporter molecule in a biological assay for drug discovery and as a fluorescent marker for protein identification.	Cairns N	Cairns N	8/14/2008	2/18/2010
WO 2010019388, US 20100041046	A method of discretizing and manipulating sample volumes to perform a digital polymerase chain reaction, comprising providing a fluidic lattice with a flow channel and many fluidic harbors.	University of Washington (Seattle)	Chiu DT, Cohen DE, Cohen DW, Jeffries GDM	8/15/2008	2/18/2010, 2/18/2010
US 7659322	A method of forming polyanhydride for controlled drug delivery involving irradiating diacid with microwave radiation in the presence of carboxylic anhydride to acylate the diacid to form a prepolymer, and irradiating the prepolymer with microwave radiation to polymerize and yield the polyanhydride.	Iowa State University Research Foundation (Ames, IA, USA)	Mallapragada SK, Vogel BM	12/16/2004	2/9/2010
US 20100028892	A reporter gene system comprising an exogenous protease with or without an exogenous activator of protease, which cleaves transcription factor protein; useful for monitoring protease activity in living yeast, e.g., <i>Saccharomyces cerevisiae</i> .	Burnham Institute for Medical Research (La Jolla, CA, USA)	Cuddy M, Hayashi H, Reed JC	7/16/2008	2/4/2010
WO 2010011939, US 20100022416	An etched plate comprising a substrate, a first layer partially disposed on the substrate and etched features; useful for measuring electrode-induced property in an etched features assay array having >5,000 etched features.	Life BioScience (Albuquerque, NM, USA)	Buckley CT, Flemming JH, Ridgeway B	7/25/2008	1/28/2010, 1/28/2010
WO 2010008519	A marker comprising a binding agent, e.g., biotin, and a chromophore, e.g., fluorescein; useful for investigating analytes <i>in vitro</i> and for anatomic, physiologic and biochemical parameters.	Hu H, Li S, Metters A, Wang Q	Hu H, Li S, Metters A, Wang Q	7/14/2008	1/21/2010
WO 2010003908	A biological system for analyses of the inhibitory mode of action exerted by a compound on the ubiquitin proteasome system for cellular protein degradation, comprising expression of heterologous fusion proteins in a eukaryotic host cell.	Esmailzadeh S, Jakobsson A, Pouya A	Beskow A, Bjoerk Grimberg K, Bott LC, Dantuma N, Salomons F, Young P	7/8/2008	1/14/2010
US 20090246802, WO 2009124135	A new annexin derivative comprising amino acids conjugated to a polarity-sensitive fluorophore; useful for detecting apoptosis and for monitoring cell health.	University of Southern California (Los Angeles)	Langen R	4/1/2008	10/1/2009, 10/8/2009
WO 2009047760	A new apparatus for measuring protein translation, comprising a cell or subcellular compartment where the cell or subcellular compartment comprises at least one protein synthesis element.	Anima Cell Metrology (Bernardsville, NJ, USA)	Smilansky Z	10/9/2007	4/16/2009

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