

## Recent patent applications in microarrays

Patent #	Subject	Assignee(s)	Inventor(s)	Priority application date	Publication date
EP 1327473	A method for stirring a reaction solution in a micro reaction vessel (e.g., a DNA chip or microarray) involving imparting a magnetic field fluctuation from the exterior of the reaction vessel to magnetic beads contained in the reaction solution. DNA chips and microarrays may be used in genetic diagnosis.	RIKEN KK (Wako, Japan); Kitsunai T; Koike C; Kondoh Y; Tashiro H	Kitsunai T, Koike C, Kondoh Y, Tashiro H	11/22/2002	7/16/2003
WO 200356030	A method for simultaneously sequencing multiple nucleic acid targets using modified primers and sequencing conditions; for use in diagnostic assays, preferably on a microarray platform.	Johns Hopkins University (Baltimore, MD, USA)	Eshleman JR, Murphy KM	3/1/2002	7/10/2003
WO 200353215	A gene expression-based classification method for multiple myeloma, comprising hybridizing plasma cell nucleic acids of persons with or without multiple myeloma to a DNA microarray and performing hierarchical clustering analysis on the hybridization data.	University of Arkansas (Fayetteville, AR, USA)	Barlogie B, Shaughnessy JD, Zhan F	8/13/2002	7/3/2003
US 20030087232	A method for screening a protein library involving partnering each protein with a unique DNA oligonucleotide tag that directs the protein to a unique site on a microarray due to specific hybridization with a complementary tag-probe on the array; eliminates the need to transform and handle individual clones and allows highly parallel screening as thousands of variants are assayed simultaneously on the same array.	Christians F; Cole KB	Christians F, Cole KB	1/25/2001	5/8/2003
US 20030078690	A microarrayer for protein analysis with plates that are moved in relative to each other in fixed increments by sequentially inserting optional pins into a set of holes provided in the plates; provides incremental translation of plates in order to spot the sample slides accurately.	V & P Scientific (San Diego, CA, USA)	Cleveland PH	2/1/2001	4/24/2003
US 20030073085	A method for amplifying expressed genetic sequences from genomic DNA of mammalian or higher order plant species for printing on DNA microarrays, using the 3' untranslated region of the gene sequence.	Lai F; Zhou D	Lai F, Zhou D	10/5/2001	4/17/2003
US 6544742	A combination of several cDNAs whose expression is modulated by epidermal growth factor and is associated with breast cancer; useful in microarrays for diagnosing breast cancer.	Incyte Genomics (Palo Alto, CA, USA)	Faris M, Streeter DG	9/3/1999	4/8/2003
US 20030044799	A method for detecting a target biopolymer in a sample involving preparing a microarray by dispensing aliquots of the sample onto a substrate at discrete sites and immobilizing the target biopolymer on the substrate, contacting the microarray with a probe biopolymer to form a complex and detecting presence of the complex.	Matson RS	Matson RS	8/31/2001	3/6/2003
US 20030026739	A microtiter microarray device having a bottomless microtiter plate with several wells. Several substrates are adhered to the plate using gaskets so that the wells mutually align with the microarrays and perforations formed on the gaskets.	Grudzien J; Macbeath G	Grudzien J; Macbeath G	6/13/2002	2/6/2003
US 20020182719	An on-spot selectively activated hydrophobic slide that has a substrate coated with a hydrophobic layer comprising functional active copolymer spots separated by inactive copolymer; useful for preparing microarrays.	Ho C; Jan B; Pan C; Tsao J	Ho C; Jan B; Pan C; Tsao J	7/8/2002	12/5/2002

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