

## Recent patent applications in microarrays

Patent #	Subject	Assignee	Inventor(s)	Priority application date	Publication date
WO 200518796	A reaction-conducting system comprising a porous reaction substrate with its top surface bounded to a rigid support having multiple through-going holes, which form reaction zones; useful, e.g., for polymer and peptide synthesis reactions and as a microarray support.	PamGene (Hertogenbosch, The Netherlands)	Kievits T, Ruijtenbeek R, van Beuningen MG	8/21/2003	3/3/2005
US 20050048580	An array comprising a substrate having multiple addresses, each address comprising a nucleic acid encoding an affinity-tagged test amino acid sequence, a translation effector and a binding agent that recognizes the affinity tag. The binding agent is preferably attached to the substrate; useful for high-throughput analyses of protein interactions.	Harvard College (Cambridge, MA, USA)	LaBaer J, Lau AY	8/3/2004	3/3/2005
US 20050048554	A microarray with a platform comprising a solid substrate and one consecutive hybrid film coating the surface of the solid substrate, where the film comprises alternating polycationic and polyanionic polymer layers; useful for identifying protein-protein interactions, for drug screening, for characterizing antibodies and in enzyme assays.	Zhou J; Zhou X	Zhou J, Zhou X	8/18/2004	3/3/2005
US 20050046758	A method for transcribing biomolecular patterns, involving two-dimensionally arranging biomolecules on a board, forming a thin-film layer made of an inorganic substance on the biomolecules, forming a supporting layer on the thin film layer, and peeling the thin film layer and the supporting layer off of the biomolecules together; useful for manufacturing biochips or devices using quantum dots or photonic crystals.	Omron KK (Tokyo); Aoyama S; Matsushita T; Nisjikawa T; Norioka S; Tsuda Y; Wazawa T	Aoyama S, Matsushita T, Nisjikawa T, Norioka S, Tsuda Y, Wazawa T	7/29/2003	3/3/2005
US 20050048648	A medium for reformulating biological membranes that enhances assay performance and is useful for fabricating and prolonging the shelf-life of biological membrane arrays.	Fang Y; Ferrie AM	Fang Y, Ferrie AM	8/29/2003	3/3/2005
US 20050048531	An array of nucleic acid probes, where each probe consists essentially of any of 127811 fully defined nucleotide sequences; useful for genetic analysis.	Affymetrix (Santa Clara, CA, USA)	Lockhart DJ, Mack DH, Mittman M	9/17/1998	3/3/2005
WO 200516869	New dendrimer compounds useful in biochips for detecting a target compound, and for methods of diagnosis and biochemical analysis.	Pohang Iron and Steel Co.; Pohang University of Science and Technology Foundation (Pohang, Korea)	Choi KY, Choi YS, Hong BJ, Kwon SH, Oh SJ, Park JW, Youn TO	8/19/2003	2/24/2005
US 20050042363	A microarray with a macroporous polymer substrate, manufactured by obtaining a macroporous polymer substrate and coating a surface with the substrate. The substrates have high immobilization capacity for large biomolecules and better accessibility of analytes to the immobilized biomolecules.	Chernov BK; Gemmell MA; Golovaj B; Kukhtin AV; Yershov GM	Chernov BK, Gemmell MA, Golovaj B, Kukhtin AV, Yershov GM	8/18/2003	2/24/2005
WO 200514852	A microarray of immobilized biomolecules comprising a surface carrying a pattern of separated regions, each containing several spots of biomolecules; for use in analysis and diagnosis.	SusTech GmbH & Co. (Darmstadt, Germany)	Groll J, Levi S, Moeller M, Rong H	7/18/2003	2/17/2005
KR 2004094982	A method for highly concentrating a target material in a sample using a scanning probe microscope to manufacture a highly integrated nano-bioarray.	Sogang University (Seoul, Korea)	Choi JU, Chun BS, Nam YS, Oh BG	5/6/2003	11/12/2004

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