Recent patent applications in pharmacogenomics

Patent number	Description	Assignee	Inventor	Priority application date	Publication date
WO 2010115154, US 20100273219	A method of amplifying target nucleic acids in samples involving preparing an amplification mixture of forward and reverse primers comprising the target-specific portion and a barcode primer, comprising nucleotides, and subjecting the mixture to amplification.	Fluidigm (S. San Francisco, CA, USA)	Anderson M, Chen P, Kaper F, May A, Wang J	4/2/2009	10/7/2010, 10/28/2010
US 20080038810, US 7816121	A droplet microactuator comprising a substrate with electrodes for conducting droplet operations and temperature control elements arranged near the electrodes to transport nucleic acid droplets on electrodes; useful for nucleic acid amplification.	Paik PY, Pamula VK, Pollack MG, Duke University (Durham, NC, USA), Advanced Liquid Logic (Research Triangle Park, NC, USA)	Paik PY, Pamula VK, Pollack MG	4/18/2006	2/14/2008, 10/19/2010
WO 2010115044	A method for depleting a nucleic acid sample of nontarget nucleic acids involving denaturing the sample nucleic acids in a reaction mixture, contacting the denatured nucleic acids with at least one target-specific primer pair under suitable annealing conditions, conducting a first cycle of extension of any annealed target-specific primer pairs and conducting nuclease digestion of single-stranded nucleic acid sequences in the reaction mixture.	Fluidigm (S. San Francisco, CA, USA)	Zimmermann BG	4/2/2009	10/7/2010
US 20100210025	A system comprising assigning modules to a genome, assigning a value or weight to a module for a given profile, analyzing a genomic sequence to identify modules and assigning a profile to the sequence; useful, e.g., for profiling a genomic sequence.	Victor Chang Cardiac Research Institute (Darlinghurst, Australia)	George R, Wouters M	8/15/2006	8/19/2010
WO 2008144345, EP 2145021	A method of predicting the likelihood of a therapeutic response to insulin growth factor-1 receptor (IGF1R) modulator as a cancer treatment, comprising measuring levels of biomarker genes or proteins before and after exposing sample to IGF1R modulator.	Bristol-Myers Squibb (Princeton, NJ, USA)	Attar RM, Carboni JM, Chen J, Dongre AR, Gottardis MM, Hafezi R, Han X, Huang F, Hurlburt W, Robinson DM, Wittenberg GM	5/17/2007	11/27/2008, 7/22/2010
US 20100178655, WO 2010083250	Genotyping a single cell, comprising pre-amplifying an amplified genome to produce a pre-amplification reaction mixture comprising amplicons specific for target nucleic acids, and amplifying and detecting the amplicons.	Fluidigm (S. San Francisco, CA, USA)	Hamilton A, Lin M, Mir A, Pieprzyk M	1/13/2009	7/15/2010, 7/22/2010
WO 2010075570	A computer-accessible medium used for assembling at least one haplotype sequence or genotype sequence of at least one genome, with stored computer-executable instructions.	New York University (New York)	Mishra B, Narzisi G	12/24/2008	7/1/2010
WO 2010048497	A method of diagnosing predisposition to, or progression of, Alzheimer's disease, comprising determining a genetic profile comprising at least one marker in a specified candidate region and correlating the genetic profile with a reference profile.	Genizon Biosciences (St. Laurent, Quebec, Canada), TechnoSynapse (Blainville, Quebec, Canada)	Belouchi A, Croteau P, Debrus S, Kebache S, Keith T, Little RD, Paquin B, Poirier J, Raelson JV, Segal J, van Eerdewegh P	10/24/2008	4/29/2010
KR 2010011719	A single-nucleotide polymorphism provided for calretinin gene, retinoic acid receptor beta gene and pre-B-cell leukemia transcription factor 1 gene; for use in biochips for predicting the risk of obesity.	Jeong J	Gang S, Jeong J, Jeong M, Kim S	7/25/2008	2/3/2010
JP 4403376	A unit for detecting interaction between substances (e.g., hybridization) that has a reaction region, water-absorptive gel in the reaction region, an electrode and water-holding portion; useful in a substrate for bioassays for analyzing mutations of genes.	Sony (Tokyo)	Mamine T, Sakamoto Y, Segawa Y, Yuo K	10/9/2003	1/27/2010
US 20090117583	A new epidermal growth factor–like variant in skin (ELVIS)-2 polypeptide; useful for screening assays, detection assays, predictive medicine and methods of treatment.	Busfield SJ, Gearing DP, Millennium Pharmaceuticals (Cambridge, MA, USA)	Busfield SJ, Gearing DP	11/19/1998	5/7/2009

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