

Recent patent applications in sequencing and diagnostics

| Patent number                 | Description   | Assignee  | Inventor   | Priority application date | Publication date |
|-------------------------------|---|---|--|---------------------------|------------------|
| US 20110130337, WO 2011065982 | Screening a human for susceptibility to Parkinson's disease comprises obtaining a nucleic acid sample from the human; determining which allele is present in the sample in at least one polymorphic nucleotide position; and identifying the human as having an increased risk of developing Parkinson's disease.   | 23andMe (Mountain View, CA, USA)  | Do C, Eriksson N   | 11/30/2009                | 6/2/2011         |
| WO 2011063210                 | A method of mapping methylated cytidine in the genome of an organism comprises isolating methylated DNA fragments, sequencing the first and second portions of methylated DNA to produce first and second DNA sequences, and aligning the sequences to map the cytidine.  | Life Technologies (Carlsbad, CA, USA)   | Adam C, Clancy K, Krissinger D, Meredith G                     | 11/20/2009                | 5/26/2011        |
| WO 2011060557                 | A method of selecting an aptamer that binds to target molecules, involving transferring the target molecule onto a membrane and incubating with a randomized mixture of aptamer, eluting the bound aptamer, followed by amplifying and determining the sequence of the eluted aptamer.  | University of Alberta (Edmonton, Alberta, Canada)   | Le XC, Li X, Liu Y, Zhang J                                    | 11/20/2009                | 5/26/2011        |
| WO 2011059285                 | A new ID sequence, useful for genotyping human papillomavirus and detecting virus causing respiratory disease.  | Genomictree (Daejeon, Korea)  | An SW, Oh MS   | 11/16/2009                | 5/19/2011        |
| US 20110118298, WO 2011060328 | A method of determining the responsiveness of a cancer patient to a treatment comprising a heat shock protein 90 (HSP90) inhibitor, comprising detecting an alteration in an anaplastic lymphoma kinase (ALK), a mitogen-activated protein kinase (MAPK) pathway and/or endothelial growth factor receptor (EGFR) gene or gene product in the tumor or cancer cell. | Infinity Pharmaceuticals (Cambridge, MA, USA)   | Fritz C, Normant EY, Paez JG, West KA                          | 11/13/2009                | 5/19/2011        |
| WO 2011058151                 | Oligonucleotide primer set for direct 16S ribosomal DNA sequencing of a polybacterial sample, e.g., blood, urine, saliva, pus and bile, comprising two oligonucleotide primers.   | Isentio (Bergen, Norway)  | Kommedal O   | 11/13/2009                | 5/19/2011        |
| WO 2011059895                 | A method of determining whether a human is predisposed to Tay-Sachs disease, comprising determining whether the human is homozygous for one or more specific mutations in beta-hexosaminidase A (HEXA) gene.  | Quest Diagnostics Investments (Teterboro, NJ, USA)  | Neidich JA, Park NJ, Salazar DZ, Strom CM, Sun W               | 11/11/2009                | 5/19/2011        |
| US 20110118145, WO 2011060240 | Analyzing copy number of a target locus comprises providing biological specimens, performing biological assays and determining copy number estimates for the target locus normalized to the reference loci.   | Genzyme (Cambridge, MA, USA)  | Akmaev VR, Hendrickson B, Scholl T                             | 11/12/2009                | 5/19/2011        |
| US 20110117553, WO 2011059508 | Amplifying a DNA of interest, comprising obtaining a raw sample comprising DNA, performing a first PCR on the raw sample to produce a first amplicon, diluting the first amplicon and performing a second PCR.  | Abalos AT, Eggars FH, Genomics USA (Inverness, IL, USA), Hogan ME, May MR, O'Brien KM, Padilla GL | Abalos AT, Eggars FH, Hogan ME, May MR, O'Brien KM, Padilla GL | 11/16/2009                | 5/19/2011        |
| CN 101986145                  | A nanopore electrical sensor useful for detecting electrical characteristics of a single basic group in a single-stranded DNA and sequencing genes.   | Zhejiang University (Hangzhou, China)   | Chen H, Shi M, Wang M, Wu G, Xu M                              | 9/30/2010                 | 3/16/2011        |
| CN 101974489                  | A recombinant influenza type A H1N1 virus useful for preparing diagnostic reagent and vaccine specific with respect to influenza type A H1N1 virus.   | Fudan University (Shanghai)   | Jiang L, Jiang Q, Ju L, Lu X                                   | 6/30/2010                 | 2/16/2011        |

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