

Cancer diagnostics

#	Patent #	Title	Inventor(s)	Features
1	5498522	Methods for the Use of Spermidine/spermine N.sup.1 - acetyltransferase as a Prognostic Indicator and/or a Tumor Response Marker	Porter	In vitro and in vivo diagnostic for responsiveness of lung carcinoma, ovarian carcinoma, or melanoma to chemotherapy. Tests chemotherapeutics that cause induction of the enzyme spermidine/spermine N.sup.1 -acetyltransferase as a significant part of their biological effect profile.
2	5238834	CDNA Cloning Vectors	Pruitt	Enables construction of recombinant vectors useful in the high frequency cloning of cDNA, as well as vectors to direct the synthesis of single stranded cDNA, thereby permitting enrichment of specific sequences by hybridization/selection.
3	6752769	Core Bite Biopsy Needle	Alberico	A biopsy needle that is based upon an opening at the tip of the needle, not the side, that permits the entire sample to be cut from the patient yet has smooth sides to reduce injury to the patient when the needle is inserted.
4	5912147	Rapid Means of Quantitating Genomic Instability	Stoler et al.	Rapid methods and compositions for quantitative genetic testing for cancerous tumors.
5	5906918	Compositions and Methods for Measurement of Oxidative DNA Damage	Box et al.	Methods and kits for quantitative determination of DNA damage; i.e. genetic testing for identifying oxidative damage to DNA.
6	5620864	Acceptor for Fucosyl Transferase	Matta et al.	Provides an oligosaccharide compound to detect alpha-1,3-L-fucosyltransferases or block its activity, which is important in HIV mechanisms.
7	5438124	Glycosylating Reagent for the Synthesis of Linear and Other .alpha.-L-fucosyl Oligosaccharides	Matta et al.	Provides efficient, convenient, rapid and economical synthesis of various fucosyl oligosaccharides that are important in the study of glycoproteins and glycolipids associated with tumors.
8	5652105	Substrate for Detection of Mammalian 5-C-DNA Methyltransferase	Sufrin et al.	Novel oligodeoxyribonucleotide (oligomeric DNA or ODN) that use standard bases (A,T,G,C) and can be routinely prepared. Enables specific detection of active mammalian DNA 5-cytosine methyltransferase (5-C-DNA methyltransferase). Diagnostic tools for premalignant tumors, esp. in colon cancer.
9	5436144	Process for Performing PCR in Mammalian Cells	Stewart et al.	The polymerase chain reaction (PCR) has been performed inside intact cells to amplify specific genetic material and the resulting cells were measured using flow cytometry. This method avoids first isolating the substrate by destroying the cell. The cells must not be lost by adhesion or lysis during the process and, the reaction product must remain associated with the cell (and not leak out).

Cancer diagnostics-PSA

#	Patent #	Title	Inventor(s)	Features
10	6379550	Method for Detecting PSA and its Molecular Forms Using Thiophilic Gel	Chadha, Sulkowski & Kawinski	A method for isolation of PSA without using monoclonal or polyclonal antibodies. Provides consistency in quantitative analysis of free PSA, complexed PSA and total PSA to increase reliability of screening tests for prostate cancer. Magnetic beads ease separation without the requirement of elution from a column.
11	6692643	Method for Detecting PSA and its Molecular Forms Using Thiophilic Gel on Magnetic Beads	Sulkowski, Chadha & Kawinski	Provides for consistency and standardization of PSA testing without use of monoclonal or polyclonal antibodies. Magnetic beads ease separation without elution from a column. Related to 6,379,550 and 6,475,389; also published as 2002/0166814.

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#	Patent #	Title	Inventor(s)	Features
12	6475389	Method for detection of prostate specific membrane antigen in serum	Kawinski & Chadha	Detection of prostate specific membrane antigen (PSMA) in a body fluid by immunoassay using anti-alpha antichymotrypsin antibody. The body fluid may be serum or urine. Related to 6,379,550 and 6,692,643; also published as 2002/0049712.