

Title (en)
BLOOD TEST PROTOTYPES AND METHODS FOR THE DETECTION OF CIRCULATING TUMOR AND ENDOTHELIAL CELLS

Title (de)
BLUTTEST-PROTOTYPEN UND VERFAHREN ZUM NACHWEIS ZIRKULIERENDER TUMOR- UND ENDOTHELZELLEN

Title (fr)
PROTOTYPES D'ANALYSES SANGUINES ET METHODES DE DETECTION DE CELLULES TUMORALES ET ENDOTHELIALES

Publication
EP 1706720 A4 20070228 (EN)

Application
EP 04796843 A 20041030

Priority
• US 2004036177 W 20041030
• US 51657103 P 20031031

Abstract (en)
[origin: WO2005043121A2] Methods and devices for isolating and diagnosing disease with a cell adhesion matrix system, mimicking a metastatic, cardiovascular or placental environment, are disclosed. The cell adhesion matrix facilitates the enrichment of target cells such as metastatic tumor cells, fetal cells and endothelial progenitor cells from a fluid sample such as blood for diagnostic and therapeutic applications in treating patients afflicted with disease, such as cancerous, cardiovascular and fetal diseases, as well as for research applications in molecular analysis of metastatic, and cardiovascular and fetal diseases. Blood test prototypes and methods for the cell enrichment and detection of circulating tumor and endothelial cells using multiplex molecular analysis are described herein. In addition, methods and compositions for determining host immunity to tumor in subjects with risk of cancer progression and methods for isolating an enriched fraction of fetal cells from pregnant females for prenatal diagnosis are also described herein.

IPC 8 full level
B01L 3/14 (2006.01); **C12M 1/34** (2006.01); **G01N 33/574** (2006.01); **C12N 5/00** (2006.01); **G01N 33/50** (2006.01); **G01N 33/569** (2006.01)

IPC 8 main group level
G01N (2006.01)

CPC (source: CN EP)
B01L 3/50825 (2013.01 - CN EP); **C12M 47/04** (2013.01 - EP); **C12N 5/0093** (2013.01 - CN EP); **G01N 33/5091** (2013.01 - CN EP); **G01N 33/574** (2013.01 - CN EP); **B01L 2300/046** (2013.01 - CN EP); **G01N 2333/75** (2013.01 - CN EP); **G01N 2333/78** (2013.01 - CN EP)

Citation (search report)
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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL HR LT LV MK

DOCDB simple family (publication)
WO 2005043121 A2 20050512; WO 2005043121 A3 20060824; AU 2004286307 A1 20050512; CA 2544373 A1 20050512; CN 104531529 A 20150422; CN 1922304 A 20070228; EP 1706720 A2 20061004; EP 1706720 A4 20070228; HK 1209778 A1 20160408; JP 2007526761 A 20070920

DOCDB simple family (application)
US 2004036177 W 20041030; AU 2004286307 A 20041030; CA 2544373 A 20041030; CN 200480039363 A 20041030; CN 201410710695 A 20041030; EP 04796843 A 20041030; HK 15110407 A 20151022; JP 2006538370 A 20041030