

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
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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

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

IPC 8 main group level

G01N (2006.01)

CPC (source: CN EP)

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Citation (search report)

- [Y] JP H11127843 A 19990518 - SUMITOMO BAKELITE CO
- [Y] US 5906940 A 19990525 - WANDREY CHRISTIAN [DE], et al
- [Y] US 5147797 A 19920915 - MCCARTHY JAMES B [US], et al
- [A] WO 03023059 A2 20030320 - ADNAGEN AG [DE], et al
- [A] US 4092246 A 19780530 - KUMMER FREDERICK J
- [A] WO 0233414 A1 20020425 - LEE HELEN [GB], et al
- See references of WO 2005043121A2

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (application)

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