Title (en)

SOLID PHASE ENRICHMENT OF INTACT CELLS USING INTRACELLULAR CONSTITUENTS

Title (de)

ANREICHERUNG INTATER ZELLEN AN EINER FESTPHASE UNTER VERWENDUNG INTRAZELLULÄRER BESTANDTEILEN

Title (fr)

ENRICHISSEMENT EN PHASE SOLIDE DE CELLULES INTACTES A L'AIDE DE CONSTITUANTS INTRACELLULAIRES

Publication

EP 0928327 A1 19990714 (EN)

Application

EP 97900153 A 19970117

Priority

- AU 9700020 W 19970117
- US 1011396 P 19960117

Abstract (en)

[origin: WO9726324A1] The present invention provides a simple, cost-effective method, and kit, for enriching one or more target cells from a mixed cell population. According to the invention, target cells are detected by a detecting agent which attaches to an intracellular constituent of the target cell, for example, a nucleic acid, peptide, protein, etc., in the cytoplasm underlying the outer cell membrane or outer cell wall. The detected cells are then concentrated from the mixed population of cells using a solid phase support system which may include an immunoaffinity or immunomagnetic system. The enriched cells may then be identified and visualized using an identifying agent and a signal generating system. The present invention also provides a method for increasing the sensitivity of the enrichment of cells from a mixed population of cells by amplifying a selected intracellular constituent of the target cell prior to enrichment.

IPC 1-7

C12N 5/00; C12N 11/00; C12Q 1/68

IPC 8 full level

G01N 33/53 (2006.01); **C12N 5/00** (2006.01); **C12N 5/07** (2010.01); **C12N 5/071** (2010.01); **C12N 11/02** (2006.01); **C12N 11/14** (2006.01); **C12Q 1/68** (2006.01); **C12Q 1/6804** (2018.01); **C12Q 1/6841** (2018.01); **G01N 33/543** (2006.01)

CPC (source: EP)

C12Q 1/6804 (2013.01); **C12Q 1/6841** (2013.01)

Citation (search report)

See references of WO 9726324A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9726324 A1 19970724; AU 1360897 A 19970811; CA 2243197 A1 19970724; EP 0928327 A1 19990714; JP 2000504213 A 20000411

DOCDB simple family (application)

AU 9700020 W 19970117; AU 1360897 A 19970117; CA 2243197 A 19970117; EP 97900153 A 19970117; JP 52552997 A 19970117