Title (en)

DETERMINING CELL CYCLE PHASE DATA

Title (de)

BESTIMMUNG VON ZELLZYKLUSPHASENDATEN

Title (fr)

PROCEDE POUR DETERMINER DES DONNEES RELATIVES A LA PHASE DU CYCLE CELLULAIRE

Publication

EP 1609111 A1 20051228 (EN)

Application

EP 03816506 A 20030908

Priority

- GB 0303876 W 20030908
- GB 0307684 A 20030402

Abstract (en)

[origin: WO2004088573A1] A method of determining cell cycle phase data for cells comprising at least one luminescent reporter capable of emitting radiation, the at least one luminescent reporter comprising a first luminescent reporter which is capable of being indicative of at least one cell cycle phase, said method comprising: storing classification rules information for classifying individual cells into different cell cycle phases using an automated classification process; receiving image data created by detecting radiation emitted by said at least one luminescent reporter; analyzing said image data to identify object areas in the image data which correspond to individual cells; analyzing said image data, on the basis of said identified object areas, to determine, for a selected cell, one or more measurements including a measurement of a parameter relating to at least a cytoplasmic component of the cell; and applying said classification rules information to said measurements to classify the selected cell into a selected one of a plurality of sub-populations of cells, each sub-population having cells in a different cell cycle phase.

IPC 1-7

G06K 9/00; G01N 15/14; G01N 21/76

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2004088573A1

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DOCDB simple family (publication)

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