

Title (en)
ORTHOGONAL POLYBIOSENSING AND IMAGING SYSTEMS

Title (de)
ORTHOGONALE POLYBIOSENSOREN UND BILDGEBUNGSSYSTEME

Title (fr)
SYSTÈMES DE POLYBIODÉTECTION ET D'IMAGERIE ORTHOGONALES

Publication
EP 3615921 A4 20210414 (EN)

Application
EP 18790804 A 20180427

Priority

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Abstract (en)
[origin: WO2018200995A2] Toward forming a single hybrid biosensing-imaging system that can operate inside an incubator, structures and methods are directed to placing modular and removable biosensors and biocompatible interfaces in 3D transparent test wells that contain biological samples. The technology enables continuous monitoring of multiple simultaneous parameters and functions of a living cell or cell clusters such as alterations of cellular ligands, physicochemical biomarkers, phenotypes, and/or extracellular compositions upon interactions with analytes or during progressions. Methods of capturing and analyzing direct orthogonal information from biological samples in 2D and 3D, which are conducive to generating new insights are presented.

IPC 8 full level
G01N 21/64 (2006.01); **B01L 3/00** (2006.01); **C12M 1/00** (2006.01); **C12M 1/34** (2006.01); **C12M 3/06** (2006.01); **G01N 21/17** (2006.01); **G01N 21/25** (2006.01); **G01N 21/78** (2006.01); **G01N 21/80** (2006.01); **G01N 27/02** (2006.01); **G01N 29/024** (2006.01); **G01N 33/483** (2006.01); **G01N 33/487** (2006.01); **G01N 35/00** (2006.01)

CPC (source: EP)
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Citation (search report)

- [X] EP 3128309 A1 20170208 - PALO ALTO RES CT INC [US]
- [X] JP H09281066 A 19971031 - HORIBA LTD
- [X] US 2013341734 A1 20131226 - MERZ MATTHIAS [BE]
- [A] US 2008207465 A1 20080828 - RAVKIN ILYA [US], et al
- [A] US 2016077045 A1 20160317 - FIFE KEITH G [US], et al
- See also references of WO 2018200995A2

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