

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)  
**B01L 3/5055** (2013.01); **B01L 3/5085** (2013.01); **C12M 23/16** (2013.01); **C12M 23/40** (2013.01); **C12M 41/46** (2013.01); **G01N 29/024** (2013.01); **G01N 35/00732** (2013.01); **B01L 3/50853** (2013.01); **B01L 2300/046** (2013.01); **B01L 2300/0609** (2013.01); **B01L 2300/0636** (2013.01); **B01L 2300/0645** (2013.01); **B01L 2300/0654** (2013.01); **B01L 2300/0663** (2013.01); **B01L 2300/069** (2013.01); **B01L 2300/0822** (2013.01); **B01L 2300/0848** (2013.01); **B01L 2300/0861** (2013.01); **B01L 2300/0893** (2013.01); **G01N 21/253** (2013.01); **G01N 21/783** (2013.01); **G01N 21/80** (2013.01); **G01N 27/02** (2013.01); **G01N 33/48707** (2013.01); **G01N 2035/00356** (2013.01); **G01N 2291/011** (2013.01); **G01N 2291/02809** (2013.01); **G01N 2291/106** (2013.01)

Citation (search report)

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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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