Electronic Supplementary Material (ESI) for Lab on a Chip.

Table 1. Overview of the most relevant patents, found on Espacenet based on either the company name, the technology name or one of the inventors (founders). (*): This is a platform, not a company.

Title	Publication nr	Publication date	Associated company
Microfluidic method for single cell analysis	WO2019202135A1	2019-10-24	HiFiBiO Therapeutics
Method for analyzing and selecting a specific droplet among a plurality of droplets and associated apparatus	WO2018134323A1	2018-07-26	HiFiBiO Therapeutics
Particle sorting in a microfluidic system	WO2019057794A1	2019-03-28	HiFiBiO Therapeutics
Microfluidic droplet detection and sorting	WO2016174229A1	2016-11-03	Velabs Therapeutics
Methods for nano-scale single cell analysis	EP2805769A1	2014-11-26	Velabs Therapeutics
Droplet-based selection	WO2009011808A1	2009-01-22	Velabs Therapeutics
Microfluidic sorting device	WO2016151107A1	2016-09-29	Velabs Therapeutics
Microfluidic sorting devices and methods	WO2018054975A1	2018-03-29	Velabs Therapeutics
Microfluidic device	WO2013037962A3	2013-05-30	Velabs Therapeutics
Microfluidic devices and systems	WO2015015199A2	2015-02-05	Sphere Fluidics
Systems and methods	WO2016193758A1	2016-12-08	Sphere Fluidics
Microfluidic structures	WO2017046565A1	2017-03-23	Sphere Fluidics
Emulsion	WO2015015198A3	2015-06-11	Sphere Fluidics
Droplet dispensing systems	WO2018234821A3	2020-04-22	Sphere Fluidics
Droplet sorting	WO2016024095A1	2016-02-18	Sphere Fluidics
Droplet processing methods and systems	WO2020030903A1	2020-02-13	Sphere Fluidics
Method of screening a plurality of single secreting cells for functional activity	WO2013090404A2	2013-06-20	Single Cell Technology
Method of screening single cells for the production of biologically active agents	WO2009123762A3	2009-12-30	Single Cell Technology
Method of obtaining antibodies of interest and nucleotides encoding same	WO2009123748A1	2009-10-08	Single Cell Technology
Methods for determining lymphocyte receptor chain pairs	WO2015176162A1	2015-11-26	AbCellera
Microfluidic devices and methods for use thereof in multicellular assays of secretion	WO2014153651A1	2014-10-02	AbCellera
System and method for microfluidic cell culture	US2020325431A1	2020-10-15	AbCellera
Methods for assaying cellular binding interactions	US2012015347A1	2012-01-19	AbCellera
Microfluidic cell trap and assay apparatus for high-throughput analysis	WO2012162779A1	2012-12-06	AbCellera
Microfluidic sieve valve	WO2006060748A2	2006-06-08	AbCellera
Methods and systems for screening using microcapillary arrays	WO2018111765A1	2018-06-21	xCella Biosciences Inc.
Lateral loading of microcapillary arrays	WO2020118106A1	2020-06-11	xCella Biosciences Inc.
Multi-stage sample recovery system	WO2018125832A1	2018-07-05	xCella Biosciences Inc.
High-throughput absorbance measurements of samples in microcapillary arrays	WO2018191180A1	2018-10-18	xCella Biosciences Inc.
Direct clone analysis and selection technology	WO2012007537A1	2012-01-19	DiCAST (*)
Microsieve diagnostic device in the isolation and analysis of single cells	US2017189907A1	2017-07-06	VyCAP
Diagnostic device with a filtration membrane for on spot microscopic diagnostic analysis and methods	NL1039638C2	2013-12-04	VyCAP
A microsieve diagnostic device in the isolation and analysis of single cells	WO2013180567A3	2014-04-10	VyCAP
Micro well plate to distribute single cells in single	NL1040089C2	2014-09-15	VyCAP

wells, and methods to use such plate			
Light sequencing and patterns for dielectrophoretic transport	US2017354969A1	2017-12-14	Berkeley Lights
Exporting a selected group of micro-objects from a micro-fluidic device	WO2015061462A9	2015-07-23	Berkeley Lights
Systems for operating electrokinetic devices	WO2016094507A9	2016-08-11	Berkeley Lights
Automated identification of assay areas in a microfluidic device and detection of assay positive areas based on rate of change of image light intensity	WO2016094522A1	2016-06-16	Berkeley Lights
Automated detection and repositioning of micro-objects in microfluidic devices	WO2016094459A3	2016-08-18	Berkeley Lights
Circuit based optoelectronic tweezers	WO2014074367A1	2014-05-15	Berkeley Lights
Capturing specific nucleic acid materials from individual biological cells in a micro-fluidic device	WO2015095623A1	2015-06-25	Berkeley Lights
Methods for assaying binding affinity	WO2020056339A1	2020-03-19	Berkeley Lights
Detecting cells secreting a protein of interest	WO2014070783A1	2014-05-08	Berkeley Lights
Pens for biological micro-objects	WO2014070873A1	2014-05-08	Berkeley Lights
Microfluidic devices having isolation pens and methods of testing biological micro-objects with same	WO2015061497A1	2015-04-30	Berkeley Lights
Actuated microfluidic structures for directed flow in a microfluidic device and methods of use thereof	WO2016094333A1	2016-06-16	Berkeley Lights
Micro-Fluidic Devices for Assaying Biological Activity	WO2015061506A8	2015-06-18	Berkeley Lights
Movement and selection of micro-objects in a microfluidic apparatus	WO2016094715A3	2016-08-04	Berkeley Lights
General functional assay	WO2019133874A1	2019-07-04	Berkeley Lights
Outputting a droplet of liquid medium from a device for processing micro-objects in the medium	WO2013181288A8	2015-01-15	Berkeley Lights
Automated detection and characterization of micro-objects in microfluidic devices	WO2019232473A3	2020-01-16	Berkeley Lights
Microfluidic reporter cell assay methods and kits thereof	US2021069698A1	2021-03-11	Berkeley Lights
Methods, systems and kits for in-pen assays	WO2017181135A3	2019-01-03	Berkeley Lights
Automated detection and repositioning of micro-objects in microfluidic devices	WO2018102748A1	2018-06-07	Berkeley Lights
Methods for screening B cell lymphocytes	WO2018076024A8	2018-07-26	Berkeley Lights
Apparatuses, systems and methods for imaging micro-object	WO2018102747A1	2018-06-07	Berkeley Lights
Microfluidic devices and kits and methods for use thereof	WO2017100347A1	2017-06-15	Berkeley Lights
DNA barcode compositions and methods of in situ identification in a microfluidic device	WO2018064640A9	2018-05-31	Berkeley Lights
Single-sided light-actuated microfluidic device with integrated mesh ground	WO2016090295A1	2016-06-09	Berkeley Lights
Methods for assaying biological cells in a microfluidic device	WO2020092975A2	2020-05-07	Berkeley Lights