Paola Occhetta

List of Publications by Year
in descending order

29	1,089	567281 15	501196 28
papers	citations	h-index	g-index

32	32	32	1753
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Beating heart on a chip: a novel microfluidic platform to generate functional 3D cardiac microtissues. Lab on A Chip, 2016, 16, 599-610.	6.0	322
2	Hyperphysiological compression of articular cartilage induces an osteoarthritic phenotype in a cartilage-on-a-chip model. Nature Biomedical Engineering, 2019, 3, 545-557.	22.5	126
3	VAâ€086 methacrylate gelatine photopolymerizable hydrogels: A parametric study for highly biocompatible 3<scp>D</scp> cell embedding. Journal of Biomedical Materials Research - Part A, 2015, 103, 2109-2117.	4.0	94
4	High-Throughput Microfluidic Platform for 3D Cultures of Mesenchymal Stem Cells, Towards Engineering Developmental Processes. Scientific Reports, 2015, 5, 10288.	3.3	76
5	Integrating Biosensors in Organs-on-Chip Devices: A Perspective on Current Strategies to Monitor Microphysiological Systems. Biosensors, 2020, 10, 110.	4.7	65
6	Developmentally inspired programming of adult human mesenchymal stromal cells toward stable chondrogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4625-4630.	7.1	53
7	Delivery of cellular factors to regulate bone healing. Advanced Drug Delivery Reviews, 2018, 129, 285-294.	13.7	51
8	A microscale biomimetic platform for generation and electro-mechanical stimulation of 3D cardiac microtissues. APL Bioengineering, 2018, 2, 046102.	6.2	36
9	A three-dimensional in vitro dynamic micro-tissue model of cardiac scar formation. Integrative Biology (United Kingdom), 2018, 10, 174-183.	1.3	33
10	Gelatin hydrogels via thiol-ene chemistry. Monatshefte FÃ¼r Chemie, 2016, 147, 587-592.	1.8	24
11	Micro-electrode channel guide (ÂµECG) technology: an online method for continuous electrical recording in a human beating heart-on-chip. Biofabrication, 2021, 13, 035026.	7.1	22
12	Engineered nasal cartilage for the repair of osteoarthritic knee cartilage defects. Science Translational Medicine, 2021, 13, eaaz4499.	12.4	22
13	Current strategies of mechanical stimulation for maturation of cardiac microtissues. Biophysical Reviews, 2021, 13, 717-727.	3.2	21
14	Design and validation of a microfluidic device for bloodâ€“brain barrier monitoring and transport studies. Journal of Micromechanics and Microengineering, 2018, 28, 044001.	2.6	16
15	Challenges Toward the Identification of Predictive Markers for Human Mesenchymal Stromal Cells Chondrogenic Potential. Stem Cells Translational Medicine, 2019, 8, 194-204.	3.3	16
16	Blockage of bone morphogenetic protein signalling counteracts hypertrophy in a human osteoarthritic micro-cartilage model. Journal of Cell Science, 2020, 133, .	2.0	16
17	Photo and Soft Lithography for Organ-on-Chip Applications. Methods in Molecular Biology, 2022, 2373, 1-19.	0.9	15
18	High-throughput microfluidic platform for adherent single cells non-viral gene delivery. RSC Advances, 2015, 5, 5087-5095.	3.6	13

#	Article	IF	Citations
19	A dynamic microscale mid-throughput fibrosis model to investigate the effects of different ratios of cardiomyocytes and fibroblasts. Lab on A Chip, 2021, 21, 4177-4195.	6.0	13
20	Development of a microfluidic platform for highâ€throughput screening of nonâ€viral gene delivery vectors. Biotechnology and Bioengineering, 2018, 115, 775-784.	3.3	10
21	High-Throughput Microfluidic Platform for 3D Cultures of Mesenchymal Stem Cells. Methods in Molecular Biology, 2017, 1612, 303-323.	0.9	9
22	Lab-on-Chip for testing myelotoxic effect of drugs and chemicals. Microfluidics and Nanofluidics, 2015, 19, 935-940.	2.2	7
23	Design of a microfluidic strategy for trapping and screening single cells. Medical Engineering and Physics, 2016, 38, 33-40.	1.7	6
24	Modeling In Vitro Osteoarthritis Phenotypes in a Vascularized Bone Model Based on a Bone-Marrow Derived Mesenchymal Cell Line and Endothelial Cells. International Journal of Molecular Sciences, 2021, 22, 9581.	4.1	6
25	Learn, simplify and implement: developmental re-engineering strategies for cartilage repai. Swiss Medical Weekly, 2016, 146, w14346.	1.6	6
26	Intervertebral Disc-on-a-Chip as Advanced In Vitro Model for Mechanobiology Research and Drug Testing: A Review and Perspective. Frontiers in Bioengineering and Biotechnology, 2021, 9, 826867.	4.1	5
27	Electromechanical Stimulation of 3D Cardiac Microtissues in a Heart-on-Chip Model. Methods in Molecular Biology, 2022, 2373, 133-157.	0.9	4
28	Mechanical Induction of Osteoarthritis Traits in a Cartilage-on-a-Chip Model. Methods in Molecular Biology, 2022, 2373, 231-251.	0.9	2
29	Validation of a Novel Microscale Mold Patterning Protocol Based on Gelatin Methacrylate Photopolymerizable Hydrogels. , 2012, , .		0