Simone Bersini

List of Publications by Year
in descending order

34 papers	2,875 citations	361045 20 h-index	414034 32 g-index
37 all docs	37 docs citations	37 times ranked	4311 citing authors

#	Article	IF	Citations
1	3D Biofabricated In Vitro Models of Vascularized and Mineralized Bone Tissues. Methods in Molecular Biology, 2022, 2373, 283-296.	0.4	0
2	Biofabrication of 3D Human Muscle Model with Vascularization and Endomysium. Methods in Molecular Biology, 2022, 2373, 213-230.	0.4	3
3	Integrative gene network and functional analyses identify a prognostically relevant key regulator of metastasis in Ewing sarcoma. Molecular Cancer, 2022, 21, 1.	7.9	25
4	A microphysiological early metastatic niche on a chip reveals how heterotypic cell interactions and inhibition of integrin subunit Î²₃ impact breast cancer cell extravasation. Lab on A Chip, 2021, 21, 1061-1072.	3.1	21
5	Engineering the early bone metastatic niche through human vascularized immuno bone minitissues. Biofabrication, 2021, 13, 035036.	3.7	7
6	The driving role of the Cdk5/Tln1/FAKS732 axis in cancer cell extravasation dissected by human vascularized microfluidic models. Biomaterials, 2021, 276, 120975.	5.7	16
7	Microfluidic Biofabrication of 3D Multicellular Spheroids by Modulation of Non-geometrical Parameters. Frontiers in Bioengineering and Biotechnology, 2020, 8, 366.	2.0	8
8	Transcriptional and Functional Changes of the Human Microvasculature during Physiological Aging and Alzheimer Disease. Advanced Biology, 2020, 4, e2000044.	3.0	11
9	Nup93 regulates breast tumor growth by modulating cell proliferation and actin cytoskeleton remodeling. Life Science Alliance, 2020, 3, e201900623.	1.3	35
10	Direct reprogramming of human smooth muscle and vascular endothelial cells reveals defects associated with aging and Hutchinson-Gilford progeria syndrome. ELife, 2020, 9, .	2.8	21
11	Engineering complex muscle-tissue interfaces through microfabrication. Biofabrication, 2019, 11, 032004.	3.7	17
12	Tackling muscle fibrosis: From molecular mechanisms to next generation engineered models to predict drug delivery. Advanced Drug Delivery Reviews, 2018, 129, 64-77.	6.6	29
13	A combined microfluidic-transcriptomic approach to characterize the extravasation potential of cancer cells. Oncotarget, 2018, 9, 36110-36125.	0.8	26
14	Engineering an Environment for the Study of Fibrosis: A 3D Human Muscle Model with Endothelium Specificity and Endomysium. Cell Reports, 2018, 25, 3858-3868.e4.	2.9	56
15	Bioprinting and Organ-on-Chip Applications Towards Personalized Medicine for Bone Diseases. Stem Cell Reviews and Reports, 2017, 13, 407-417.	5.6	51
16	In Vitro Co-Culture Models of Breast Cancer Metastatic Progression towards Bone. International Journal of Molecular Sciences, 2016, 17, 1405.	1.8	37
17	Cardiac Meets Skeletal: Whatâ€™s New in Microfluidic Models for Muscle Tissue Engineering. Molecules, 2016, 21, 1128.	1.7	39
18	A 3D vascularized bone remodeling model combining osteoblasts and osteoclasts in a CaP nanoparticle-enriched matrix. Nanomedicine, 2016, 11, 1073-1091.	1.7	53

#	Article	IF	Citations
19	Bioprinting 3D microfibrous scaffolds for engineering endothelialized myocardium and heart-on-a-chip. Biomaterials, 2016, 110, 45-59.	5.7	699
20	Cell-microenvironment interactions and architectures in microvascular systems. Biotechnology Advances, 2016, 34, 1113-1130.	6.0	49
21	Engineered miniaturized models of musculoskeletal diseases. Drug Discovery Today, 2016, 21, 1429-1436.	3.2	24
22	Rational Design of Prevascularized Large 3D Tissue Constructs Using Computational Simulations and Biofabrication of Geometrically Controlled Microvessels. Advanced Healthcare Materials, 2016, 5, 1617-1626.	3.9	26
23	Human inÂvitro 3D co-culture model to engineer vascularized bone-mimicking tissues combining computational tools and statistical experimental approach. Biomaterials, 2016, 76, 157-172.	5.7	72
24	A dynamic multibody model of the physiological knee to predict internal loads during movement in gravitational field. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 571-579.	0.9	20
25	Abstract A52: Dissection of cancer cells extravasation through human vascularized 3D microfluidic model: The major role of talin-1. , 2016, , .		0
26	From cardiac tissue engineering to heart-on-a-chip: beating challenges. Biomedical Materials (Bristol), 2015, 10, 034006.	1.7	134
27	3D functional and perfusable microvascular networks for organotypic microfluidic models. Journal of Materials Science: Materials in Medicine, 2015, 26, 180.	1.7	29
28	Human 3D vascularized organotypic microfluidic assays to study breast cancer cell extravasation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 214-219.	3.3	616
29	Abstract B23: Extravasation of breast cancer cells to a bone-cell conditioned microenvironment in functional 3D microvascular networks generated by vasculogenesis in a microfluidic system. , 2015, , .		0
30	A microfluidic 3D inÂvitro model for specificity of breast cancer metastasis to bone. Biomaterials, 2014, 35, 2454-2461.	5.7	440
31	Generation of 3D functional microvascular networks with human mesenchymal stem cells in microfluidic systems. Integrative Biology (United Kingdom), 2014, 6, 555-563.	0.6	195
32	In vitro models of the metastatic cascade: from local invasion to extravasation. Drug Discovery Today, 2014, 19, 735-742.	3.2	73
33	Does soccer cleat design influence the rotational interaction with the playing surface?. Sports Biomechanics, 2013, 12, 293-301.	0.8	15
34	Design of microfluidic devices for drug screening on in-vitro cells for osteoporosis therapies. Microelectronic Engineering, 2011, 88, 1801-1806.	1.1	11