

Alison P Mcguigan

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8523240/alison-p-mcguigan-publications-by-year.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60 papers	1,828 citations	21 h-index	42 g-index
66 ext. papers	2,229 ext. citations	8.9 avg, IF	5.03 L-index

#	Paper	IF	Citations
60	Tryptophan-derived microbial metabolites activate the aryl hydrocarbon receptor in tumor-associated macrophages to suppress anti-tumor immunity.. <i>Immunity</i> , 2022 , 55, 324-340.e8	32.3	14
59	MEndR: An In Vitro Functional Assay to Predict In Vivo Muscle Stem Cell-Mediated Repair. <i>Advanced Functional Materials</i> , 2022 , 32, 2106548	15.6	2
58	Biomimetic hydrogel supports initiation and growth of patient-derived breast tumor organoids.. <i>Nature Communications</i> , 2022 , 13, 1466	17.4	6
57	3D microgels to quantify tumor cell properties and therapy response dynamics.. <i>Biomaterials</i> , 2022 , 283, 121417	15.6	0
56	REVOLVER: A low-cost automated protein purifier based on parallel preparative gravity column workflows.. <i>HardwareX</i> , 2022 , 11, e00291	2.7	
55	Microfluidic Arrays of Breast Tumor Spheroids for Drug Screening and Personalized Cancer Therapies. <i>Advanced Healthcare Materials</i> , 2021 , e2101085	10.1	5
54	Applications of Omics Technologies for Three-Dimensional Disease Models. <i>Tissue Engineering - Part C: Methods</i> , 2021 , 27, 183-199	2.9	2
53	Gelatin-Hyaluronan Click-Crosslinked Cryogels Elucidate Human Macrophage Invasion Behavior. <i>Advanced Functional Materials</i> , 2021 , 31, 2008400	15.6	5
52	Matrix Stiffness-Regulated Growth of Breast Tumor Spheroids and Their Response to Chemotherapy. <i>Biomacromolecules</i> , 2021 , 22, 419-429	6.9	15
51	Easy and robust micropatterning using fibrinogen anchors. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	1
50	Application of CRISPR screens to investigate mammalian cell competition. <i>Briefings in Functional Genomics</i> , 2021 , 20, 135-147	4.9	
49	An Engineered Patient-Derived Tumor Organoid Model That Can Be Disassembled to Study Cellular Responses in a Graded 3D Microenvironment. <i>Advanced Functional Materials</i> , 2021 , 31, 2105349	15.6	4
48	Assembly of lung progenitors into developmentally-inspired geometry drives differentiation via cellular tension. <i>Biomaterials</i> , 2020 , 254, 120128	15.6	7
47	The life cycle of cancer-associated fibroblasts within the tumour stroma and its importance in disease outcome. <i>British Journal of Cancer</i> , 2020 , 122, 931-942	8.7	29
46	A TRACER culture invasion assay to probe the impact of cancer associated fibroblasts on head and neck squamous cell carcinoma cell invasiveness. <i>Biomaterials Science</i> , 2020 , 8, 3078-3094	7.4	7
45	Current strategies and opportunities to manufacture cells for modeling human lungs. <i>Advanced Drug Delivery Reviews</i> , 2020 , 161-162, 90-109	18.5	3
44	Tissue-engineered 3D cancer microenvironment for screening therapeutics 2020 , 453-479		1

43	Gels for Live Analysis of Compartmentalized Environments (GLAnCE): A tissue model to probe tumour phenotypes at tumour-stroma interfaces. <i>Biomaterials</i> , 2020 , 228, 119572	15.6	6
42	Local cell coordination does not alter individual cell migration during collective migration but does impact cellular exchange events. <i>Integrative Biology (United Kingdom)</i> , 2019 , 11, 163-172	3.7	2
41	Development of a bioprinting approach for automated manufacturing of multi-cell type biocomposite TRACER strips using contact capillary-wicking. <i>Biofabrication</i> , 2019 , 12, 015001	10.5	3
40	A TRACER 3D Co-Culture tumour model for head and neck cancer. <i>Biomaterials</i> , 2018 , 164, 54-69	15.6	36
39	The Current Landscape of 3D In Vitro Tumor Models: What Cancer Hallmarks Are Accessible for Drug Discovery?. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701174	10.1	50
38	Design of biomimetic substrates for long-term maintenance of alveolar epithelial cells. <i>Biomaterials Science</i> , 2018 , 6, 292-303	7.4	10
37	A three-dimensional engineered heterogeneous tumor model for assessing cellular environment and response. <i>Nature Protocols</i> , 2018 , 13, 1917-1957	18.8	19
36	Rapid determination of the tumour stroma ratio in squamous cell carcinomas with desorption electrospray ionization mass spectrometry (DESI-MS): a proof-of-concept demonstration. <i>Analyst, The</i> , 2017 , 142, 3250-3260	5	8
35	Modulation of cellular polarization and migration by ephrin/Eph signal-mediated boundary formation. <i>Integrative Biology (United Kingdom)</i> , 2017 , 9, 934-946	3.7	1
34	Diabetic wound regeneration using peptide-modified hydrogels to target re-epithelialization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E5792-E5801	11.5	77
33	Tissue Patterning: Translating Design Principles from In Vivo to In Vitro. <i>Annual Review of Biomedical Engineering</i> , 2016 , 18, 1-24	12	9
32	A three-dimensional engineered tumour for spatial snapshot analysis of cell metabolism and phenotype in hypoxic gradients. <i>Nature Materials</i> , 2016 , 15, 227-34	27	89
31	Patterning cellular compartments within TRACER cultures using sacrificial gelatin printing. <i>Biofabrication</i> , 2016 , 8, 035018	10.5	9
30	Development of TRACER: tissue roll for analysis of cellular environment and response. <i>Biofabrication</i> , 2016 , 8, 045008	10.5	20
29	Topographically grooved gel inserts for aligning epithelial cells during air-liquid-interface culture. <i>Biomaterials Science</i> , 2015 , 3, 121-33	7.4	11
28	Micropatterning strategies to engineer controlled cell and tissue architecture in vitro. <i>BioTechniques</i> , 2015 , 58, 13-23	2.5	46
27	An in vitro model of tissue boundary formation for dissecting the contribution of different boundary forming mechanisms. <i>Integrative Biology (United Kingdom)</i> , 2015 , 7, 298-312	3.7	8
26	Nonautonomous contact guidance signaling during collective cell migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1807-12	11.5	60

25	A microfluidic device to apply shear stresses to polarizing ciliated airway epithelium using air flow. <i>Biomicrofluidics</i> , 2014 , 8, 064104	3.2	14
24	Micropatterning cells on permeable membrane filters. <i>Methods in Cell Biology</i> , 2014 , 121, 171-89	1.8	4
23	Multiwell plate tools for controlling cellular alignment with grooved topography. <i>Methods in Molecular Biology</i> , 2014 , 1202, 37-55	1.4	
22	Challenges and opportunities for tissue-engineering polarized epithelium. <i>Tissue Engineering - Part B: Reviews</i> , 2014 , 20, 56-72	7.9	18
21	A microgroove patterned multiwell cell culture plate for high-throughput studies of cell alignment. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 2537-48	4.9	21
20	Design principles for generating robust gene expression patterns in dynamic engineered tissues. <i>Integrative Biology (United Kingdom)</i> , 2013 , 5, 578-89	3.7	11
19	An algorithm to quantify correlated collective cell migration behavior. <i>BioTechniques</i> , 2013 , 54, 87-92	2.5	6
18	A simple and rapid method for generating patterned co-cultures with stable interfaces. <i>BioTechniques</i> , 2013 , 55, 21-6	2.5	11
17	Ensemble modeling of cancer metabolism. <i>Frontiers in Physiology</i> , 2012 , 3, 135	4.6	27
16	Designing in vitro tools to pattern gene expression using inducible gene expression. <i>FASEB Journal</i> , 2012 , 26, 454.1	0.9	
15	Tools for micropatterning epithelial cells into microcolonies on transwell filter substrates. <i>Lab on A Chip</i> , 2011 , 11, 3440-8	7.2	12
14	A fast and accessible methodology for micro-patterning cells on standard culture substrates using Parafilm® Inserts. <i>PLoS ONE</i> , 2011 , 6, e20909	3.7	45
13	Lifespan-on-a-chip: microfluidic chambers for performing lifelong observation of C. elegans. <i>Lab on A Chip</i> , 2010 , 10, 589-97	7.2	170
12	Fabrication of a modular tissue construct in a microfluidic chip. <i>Lab on A Chip</i> , 2008 , 8, 663-71	7.2	98
11	Cell encapsulation in sub-mm sized gel modules using replica molding. <i>PLoS ONE</i> , 2008 , 3, e2258	3.7	67
10	The thrombogenicity of human umbilical vein endothelial cell seeded collagen modules. <i>Biomaterials</i> , 2008 , 29, 2453-63	15.6	49
9	Tissue factor and thrombomodulin expression on endothelial cell-seeded collagen modules for tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 80, 497-504	5.4	18
8	The influence of biomaterials on endothelial cell thrombogenicity. <i>Biomaterials</i> , 2007 , 28, 2547-71	15.6	191

7	Modular tissue engineering: fabrication of a gelatin-based construct. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2007 , 1, 136-45	4.4	36
6	Design criteria for a modular tissue-engineered construct. <i>Tissue Engineering</i> , 2007 , 13, 1079-89		25
5	Design and fabrication of sub-mm-sized modules containing encapsulated cells for modular tissue engineering. <i>Tissue Engineering</i> , 2007 , 13, 1069-78		42
4	Vascularized organoid engineered by modular assembly enables blood perfusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 11461-6	11.5	313
3	Fabrication of cell-containing gel modules to assemble modular tissue-engineered constructs [corrected]. <i>Nature Protocols</i> , 2006 , 1, 2963-9	18.8	54
2	Vascularized Organoid Engineered by Modular Assembly Enables Blood Perfusion. <i>FASEB Journal</i> , 2006 , 20, A436	0.9	1
1	Collagen/poloxamine hydrogels: cytocompatibility of embedded HepG2 cells and surface-attached endothelial cells. <i>Tissue Engineering</i> , 2005 , 11, 1807-16		27