

# Danijela Matic vignjevic

## List of Publications by Year in descending order

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55  
papers

6,829  
citations

94269

37  
h-index

149479

56  
g-index

58  
all docs

58  
docs citations

58  
times ranked

9474  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of filopodia initiation by reorganization of a dendritic network. <i>Journal of Cell Biology</i> , 2003, 160, 409-421.	2.3	692
2	Modes of cancer cell invasion and the role of the microenvironment. <i>Current Opinion in Cell Biology</i> , 2015, 36, 13-22.	2.6	619
3	Role of fascin in filopodial protrusion. <i>Journal of Cell Biology</i> , 2006, 174, 863-875.	2.3	447
4	Actin, microtubules, and vimentin intermediate filaments cooperate for elongation of invadopodia. <i>Journal of Cell Biology</i> , 2010, 189, 541-556.	2.3	430
5	Cellular capsules as a tool for multicellular spheroid production and for investigating the mechanics of tumor progression in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14843-14848.	3.3	367
6	Cancer-associated fibroblasts induce metalloprotease-independent cancer cell invasion of the basement membrane. <i>Nature Communications</i> , 2017, 8, 924.	5.8	252
7	Fascin, a Novel Target of $\beta$ -Catenin-TCF Signaling, Is Expressed at the Invasive Front of Human Colon Cancer. <i>Cancer Research</i> , 2007, 67, 6844-6853.	0.4	249
8	Cancer-associated fibroblasts lead tumor invasion through integrin- $\beta$ 3-dependent fibronectin assembly. <i>Journal of Cell Biology</i> , 2017, 216, 3509-3520.	2.3	241
9	Formation of filopodia-like bundles in vitro from a dendritic network. <i>Journal of Cell Biology</i> , 2003, 160, 951-962.	2.3	236
10	Cancer-associated fibroblast heterogeneity in axillary lymph nodes drives metastases in breast cancer through complementary mechanisms. <i>Nature Communications</i> , 2020, 11, 404.	5.8	230
11	Compressive Stress Inhibits Proliferation in Tumor Spheroids through a Volume Limitation. <i>Biophysical Journal</i> , 2014, 107, 1821-1828.	0.2	218
12	A review of microfabrication and hydrogel engineering for micro-organs on chips. <i>Biomaterials</i> , 2014, 35, 1816-1832.	5.7	200
13	Stress Clamp Experiments on Multicellular Tumor Spheroids. <i>Physical Review Letters</i> , 2011, 107, 188102.	2.9	188
14	Dendritic organization of actin comet tails. <i>Current Biology</i> , 2001, 11, 130-135.	1.8	172
15	Active cell migration is critical for steady-state epithelial turnover in the gut. <i>Science</i> , 2019, 365, 705-710.	6.0	164
16	A 3D printed microfluidic device for production of functionalized hydrogel microcapsules for culture and differentiation of human Neuronal Stem Cells (hNSC). <i>Lab on A Chip</i> , 2016, 16, 1593-1604.	3.1	121
17	Concomitant Notch activation and p53 deletion trigger epithelial-to-mesenchymal transition and metastasis in mouse gut. <i>Nature Communications</i> , 2014, 5, 5005.	5.8	114
18	Mechanical compartmentalization of the intestinal organoid enables crypt folding and collective cell migration. <i>Nature Cell Biology</i> , 2021, 23, 745-757.	4.6	112

#	ARTICLE	IF	CITATIONS
19	Cancer associated fibroblasts: is the force the path to the dark side?. <i>Current Opinion in Cell Biology</i> , 2019, 56, 71-79.	2.6	110
20	Reorganisation of the dendritic actin network during cancer cell migration and invasion. <i>Seminars in Cancer Biology</i> , 2008, 18, 12-22.	4.3	106
21	EGF/EGFR axis contributes to the progression of cholangiocarcinoma through the induction of an epithelial-mesenchymal transition. <i>Journal of Hepatology</i> , 2014, 61, 325-332.	1.8	101
22	Assembly, heterogeneity, and breaching of the basement membranes. <i>Cell Adhesion and Migration</i> , 2014, 8, 236-245.	1.1	96
23	Frustrated endocytosis controls contractility-independent mechanotransduction at clathrin-coated structures. <i>Nature Communications</i> , 2018, 9, 3825.	5.8	88
24	Isotropic stress reduces cell proliferation in tumor spheroids. <i>New Journal of Physics</i> , 2012, 14, 055008.	1.2	84
25	Fascin Plays a Role in Stress Fiber Organization and Focal Adhesion Disassembly. <i>Current Biology</i> , 2014, 24, 1492-1499.	1.8	82
26	Tensile Forces Originating from Cancer Spheroids Facilitate Tumor Invasion. <i>PLoS ONE</i> , 2016, 11, e0156442.	1.1	76
27	Mechanical factors activate <i>catenin</i> -dependent oncogene expression in APC <sup>1638N/+</sup> mouse colon. <i>HFSP Journal</i> , 2008, 2, 286-294.	2.5	74
28	The hallmarks of CAFs in cancer invasion. <i>European Journal of Cell Biology</i> , 2016, 95, 493-502.	1.6	73
29	Improved silencing vector co-expressing GFP and small hairpin RNA. <i>BioTechniques</i> , 2004, 36, 74-79.	0.8	69
30	Enterocyte loss of polarity and gut wound healing rely upon the F-actin severing function of villin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1380-9.	3.3	67
31	In vivo Tumor Targeting Using a Novel Intestinal Pathogen-Based Delivery Approach. <i>Cancer Research</i> , 2006, 66, 7230-7236.	0.4	65
32	Liver Metastasis Is Facilitated by the Adherence of Circulating Tumor Cells to Vascular Fibronectin Deposits. <i>Cancer Research</i> , 2017, 77, 3431-3441.	0.4	60
33	Mechanical Control of Cell flow in Multicellular Spheroids. <i>Physical Review Letters</i> , 2013, 110, 138103.	2.9	57
34	Do cancer cells have distinct adhesions in 3D collagen matrices and in vivo?. <i>European Journal of Cell Biology</i> , 2012, 91, 930-937.	1.6	51
35	Developing an advanced gut on chip model enabling the study of epithelial cell/fibroblast interactions. <i>Lab on A Chip</i> , 2021, 21, 365-377.	3.1	51
36	Loss of EBP50 stimulates EGFR activity to induce EMT phenotypic features in biliary cancer cells. <i>Oncogene</i> , 2012, 31, 1376-1388.	2.6	50

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37	ETV5 cooperates with LPP as a sensor of extracellular signals and promotes EMT in endometrial carcinomas. <i>Oncogene</i> , 2012, 31, 4778-4788.	2.6	45
38	HNF1 $\beta$ inhibition triggers epithelial-mesenchymal transition in human liver cancer cell lines. <i>BMC Cancer</i> , 2011, 11, 427.	1.1	35
39	Cancer cells in the tumor core exhibit spatially coordinated migration patterns. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	35
40	In Vitro Assembly of Filopodia-Like Bundles. <i>Methods in Enzymology</i> , 2006, 406, 727-739.	0.4	29
41	Self-generated gradients steer collective migration on viscoelastic collagen networks. <i>Nature Materials</i> , 2022, 21, 1200-1210.	13.3	29
42	Cytoskeleton networks in basement membrane transmigration. <i>European Journal of Cell Biology</i> , 2011, 90, 93-99.	1.6	28
43	An open data ecosystem for cell migration research. <i>Trends in Cell Biology</i> , 2015, 25, 55-58.	3.6	26
44	Endothelial cell invasion is controlled by dactylopodia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	26
45	Revealing the Cytoskeletal Organization of Invasive Cancer Cells in 3D. <i>Journal of Visualized Experiments</i> , 2013, , e50763.	0.2	24
46	Conditional expression of fascin increases tumor progression in a mouse model of intestinal cancer. <i>European Journal of Cell Biology</i> , 2014, 93, 388-395.	1.6	21
47	A tuneable microfluidic system for long duration chemotaxis experiments in a 3D collagen matrix. <i>Lab on A Chip</i> , 2017, 17, 3851-3861.	3.1	21
48	Epithelial Morphogenesis and Intestinal Cancer: New Insights in Signaling Mechanisms. <i>Advances in Cancer Research</i> , 2008, 100, 85-111.	1.9	15
49	Reentrant wetting transition in the spreading of cellular aggregates. <i>Soft Matter</i> , 2017, 13, 8474-8482.	1.2	15
50	A new biomimetic assay reveals the temporal role of matrix stiffening in cancer cell invasion. <i>Molecular Biology of the Cell</i> , 2018, 29, 2979-2988.	0.9	15
51	Quantification of collagen contraction in three-dimensional cell culture. <i>Methods in Cell Biology</i> , 2015, 125, 353-372.	0.5	10
52	Cell Migration in Tissues: Explant Culture and Live Imaging. <i>Methods in Molecular Biology</i> , 2018, 1749, 163-173.	0.4	7
53	Microfluidic-Based Generation of 3D Collagen Spheres to Investigate Multicellular Spheroid Invasion. <i>Methods in Molecular Biology</i> , 2017, 1612, 269-279.	0.4	6
54	3D cell migration in the presence of chemical gradients using microfluidics. <i>Methods in Cell Biology</i> , 2018, 147, 133-147.	0.5	4

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55	Roles of the macrophages in colon homeostasis. <i>Comptes Rendus - Biologies</i> , 2021, 344, 337-356.	0.1	1