

# Mina J Bissell

## List of Publications by Year in descending order

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109  
papers

24,027  
citations

25014

57  
h-index

31818

101  
g-index

124  
all docs

124  
docs citations

124  
times ranked

28090  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tumour exosome integrins determine organotropic metastasis. <i>Nature</i> , 2015, 527, 329-335.	13.7	3,688
2	Putting tumours in context. <i>Nature Reviews Cancer</i> , 2001, 1, 46-54.	12.8	1,892
3	How does the extracellular matrix direct gene expression?. <i>Journal of Theoretical Biology</i> , 1982, 99, 31-68.	0.8	1,387
4	Why don't we get more cancer? A proposed role of the microenvironment in restraining cancer progression. <i>Nature Medicine</i> , 2011, 17, 320-329.	15.2	1,296
5	Pre-metastatic niches: organ-specific homes for metastases. <i>Nature Reviews Cancer</i> , 2017, 17, 302-317.	12.8	1,272
6	Three-dimensional culture models of normal and malignant breast epithelial cells. <i>Nature Methods</i> , 2007, 4, 359-365.	9.0	1,131
7	Î²4 integrin-dependent formation of polarized three-dimensional architecture confers resistance to apoptosis in normal and malignant mammary epithelium. <i>Cancer Cell</i> , 2002, 2, 205-216.	7.7	880
8	Extracellular Vesicle and Particle Biomarkers Define Multiple Human Cancers. <i>Cell</i> , 2020, 182, 1044-1061.e18.	13.5	691
9	Tissue Geometry Determines Sites of Mammary Branching Morphogenesis in Organotypic Cultures. <i>Science</i> , 2006, 314, 298-300.	6.0	545
10	The organizing principle: microenvironmental influences in the normal and malignant breast. <i>Differentiation</i> , 2002, 70, 537-546.	1.0	542
11	Context, tissue plasticity, and cancer. <i>Cancer Cell</i> , 2005, 7, 17-23.	7.7	464
12	Organoids: A historical perspective of thinking in three dimensions. <i>Journal of Cell Biology</i> , 2017, 216, 31-40.	2.3	442
13	Regulation of In Situ to Invasive Breast Carcinoma Transition. <i>Cancer Cell</i> , 2008, 13, 394-406.	7.7	437
14	Normal and tumor-derived myoepithelial cells differ in their ability to interact with luminal breast epithelial cells for polarity and basement membrane deposition. <i>Journal of Cell Science</i> , 2002, 115, 39-50.	1.2	409
15	Phenotypic Reversion or Death of Cancer Cells by Altering Signaling Pathways in Three-Dimensional Contexts. <i>Journal of the National Cancer Institute</i> , 2002, 94, 1494-1503.	3.0	392
16	Tissue architecture: the ultimate regulator of breast epithelial function. <i>Current Opinion in Cell Biology</i> , 2003, 15, 753-762.	2.6	382
17	The tumor microenvironment is a dominant force in multidrug resistance. <i>Drug Resistance Updates</i> , 2012, 15, 39-49.	6.5	361
18	Polarity and proliferation are controlled by distinct signaling pathways downstream of PI3-kinase in breast epithelial tumor cells. <i>Journal of Cell Biology</i> , 2004, 164, 603-612.	2.3	353

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19	Normal and tumor-derived myoepithelial cells differ in their ability to interact with luminal breast epithelial cells for polarity and basement membrane deposition. <i>Journal of Cell Science</i> , 2002, 115, 39-50.	1.2	348
20	Mammary gland development: cell fate specification, stem cells and the microenvironment. <i>Development (Cambridge)</i> , 2015, 142, 1028-1042.	1.2	343
21	CSF1R inhibition delays cervical and mammary tumor growth in murine models by attenuating the turnover of tumor-associated macrophages and enhancing infiltration by CD8 <sup>+</sup> T cells. <i>Oncolmmunology</i> , 2013, 2, e26968.	2.1	311
22	Tumor reversion: Correction of malignant behavior by microenvironmental cues. <i>International Journal of Cancer</i> , 2003, 107, 688-695.	2.3	307
23	Î²1 Integrin Inhibitory Antibody Induces Apoptosis of Breast Cancer Cells, Inhibits Growth, and Distinguishes Malignant from Normal Phenotype in Three Dimensional Cultures and In vivo. <i>Cancer Research</i> , 2006, 66, 1526-1535.	0.4	303
24	Tissue architecture and function: dynamic reciprocity via extra- and intra-cellular matrices. <i>Cancer and Metastasis Reviews</i> , 2009, 28, 167-176.	2.7	274
25	The need for complex 3D culture models to unravel novel pathways and identify accurate biomarkers in breast cancer. <i>Advanced Drug Delivery Reviews</i> , 2014, 69-70, 42-51.	6.6	273
26	The matrix metalloproteinase stromelysin-1 acts as a natural mammary tumor promoter. <i>Oncogene</i> , 2000, 19, 1102-1113.	2.6	244
27	Myoepithelial cells: good fences make good neighbors. <i>Breast Cancer Research</i> , 2005, 7, 190-7.	2.2	210
28	Î²1 Integrin Inhibition Dramatically Enhances Radiotherapy Efficacy in Human Breast Cancer Xenografts. <i>Cancer Research</i> , 2008, 68, 4398-4405.	0.4	201
29	The Differentiated State of Normal and Malignant Cells or How to Define a "Normal" Cell in Culture. <i>International Review of Cytology</i> , 1981, 70, 27-100.	6.2	194
30	Coherent angular motion in the establishment of multicellular architecture of glandular tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1973-1978.	3.3	184
31	Breast Cancer Cells in Three-dimensional Culture Display an Enhanced Radioresponse after Coordinate Targeting of Integrin Î²1 and Fibronectin. <i>Cancer Research</i> , 2010, 70, 5238-5248.	0.4	173
32	The MAPKERK-1,2 pathway integrates distinct and antagonistic signals from TGFÎ± and FGF7 in morphogenesis of mouse mammary epithelium. <i>Developmental Biology</i> , 2007, 306, 193-207.	0.9	169
33	Laminin and biomimetic extracellular elasticity enhance functional differentiation in mammary epithelia. <i>EMBO Journal</i> , 2008, 27, 2829-2838.	3.5	161
34	From laminin to lamin: regulation of tissue-specific gene expression by the ECM. <i>Trends in Cell Biology</i> , 1995, 5, 1-4.	3.6	157
35	A Human Breast Cell Model of Preinvasive to Invasive Transition. <i>Cancer Research</i> , 2008, 68, 1378-1387.	0.4	145
36	The tumor microenvironment modulates tamoxifen resistance in breast cancer: a role for soluble stromal factors and fibronectin through Î²1 integrin. <i>Breast Cancer Research and Treatment</i> , 2012, 133, 459-471.	1.1	143

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37	Extracellular matrix control of mammary gland morphogenesis and tumorigenesis: insights from imaging. <i>Histochemistry and Cell Biology</i> , 2008, 130, 1105-18.	0.8	142
38	Patterned Collagen Fibers Orient Branching Mammary Epithelium through Distinct Signaling Modules. <i>Current Biology</i> , 2013, 23, 703-709.	1.8	135
39	Depletion of nuclear actin is a key mediator of quiescence in epithelial cells. <i>Journal of Cell Science</i> , 2011, 124, 123-132.	1.2	128
40	FAM83A confers EGFR-TKI resistance in breast cancer cells and in mice. <i>Journal of Clinical Investigation</i> , 2012, 122, 3211-3220.	3.9	126
41	A role for dystroglycan in epithelial polarization: loss of function in breast tumor cells. <i>Cancer Research</i> , 2002, 62, 7102-9.	0.4	125
42	Tissue architecture: the ultimate regulator of epithelial function?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1998, 353, 857-870.	1.8	124
43	The Significance of Matrix Metalloproteinases during Early Stages of Tumor Progression. <i>Annals of the New York Academy of Sciences</i> , 1998, 857, 180-193.	1.8	121
44	Division of Labor among the $\alpha 6 \beta 4$ Integrin, $\beta 1$ Integrins, and an E3 Laminin Receptor to Signal Morphogenesis and $\beta$ -Casein Expression in Mammary Epithelial Cells. <i>Molecular Biology of the Cell</i> , 1999, 10, 2817-2828.	0.9	114
45	Splicing program of human MENA produces a previously undescribed isoform associated with invasive, mesenchymal-like breast tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19280-19285.	3.3	112
46	Characterization of BCE-1, a Transcriptional Enhancer Regulated by Prolactin and Extracellular Matrix and Modulated by the State of Histone Acetylation. <i>Molecular and Cellular Biology</i> , 1998, 18, 2184-2195.	1.1	111
47	Modeling Host-Pathogen Interactions in the Context of the Microenvironment: Three-Dimensional Cell Culture Comes of Age. <i>Infection and Immunity</i> , 2018, 86, .	1.0	108
48	FAM83 family oncogenes are broadly involved in human cancers: an integrative multi-omics approach. <i>Molecular Oncology</i> , 2017, 11, 167-179.	2.1	102
49	Raf-induced MMP9 disrupts tissue architecture of human breast cells in three-dimensional culture and is necessary for tumor growth in vivo. <i>Genes and Development</i> , 2010, 24, 2800-2811.	2.7	91
50	Dystroglycan loss disrupts polarity and $\beta$ -casein induction in mammary epithelial cells by perturbing laminin anchoring. <i>Journal of Cell Science</i> , 2006, 119, 4047-4058.	1.2	90
51	AZU-1: A Candidate Breast Tumor Suppressor and Biomarker for Tumor Progression. <i>Molecular Biology of the Cell</i> , 2000, 11, 1357-1367.	0.9	84
52	An odyssey from breast to bone: Multi-step control of mammary metastases and osteolysis by matrix metalloproteinases. <i>Apms</i> , 1999, 107, 128-136.	0.9	78
53	Sorting Out the FACS: A Devil in the Details. <i>Cell Reports</i> , 2014, 6, 779-781.	2.9	76
54	Of plasticity and specificity: dialectics of the microenvironment and macroenvironment and the organ phenotype. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2014, 3, 147-163.	5.9	76

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55	Laminin-111 and the Level of Nuclear Actin Regulate Epithelial Quiescence via Exportin-6. <i>Cell Reports</i> , 2017, 19, 2102-2115.	2.9	68
56	Interaction of E-cadherin and PTEN Regulates Morphogenesis and Growth Arrest in Human Mammary Epithelial Cells. <i>Cancer Research</i> , 2009, 69, 4545-4552.	0.4	64
57	Deep nuclear invaginations linked to cytoskeletal filaments: Integrated bioimaging of epithelial cells in 3D culture. <i>Journal of Cell Science</i> , 2017, 130, 177-189.	1.2	64
58	Differentiation and Cancer in the Mammary Gland: Shedding Light on an Old Dichotomy. <i>Advances in Cancer Research</i> , 1998, 75, 135-162.	1.9	63
59	Nuclear repartitioning of galectin-1 by an extracellular glycan switch regulates mammary morphogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4820-7.	3.3	63
60	Of Microenvironments and Mammary Stem Cells. <i>Stem Cell Reviews and Reports</i> , 2007, 3, 137-146.	5.6	58
61	$\beta$ 1 and $\beta$ 4 integrins: from breast development to clinical practice. <i>Breast Cancer Research</i> , 2014, 16, 459.	2.2	57
62	Goodbye flat biology – time for the 3rd and the 4th dimensions. <i>Journal of Cell Science</i> , 2017, 130, 3-5.	1.2	57
63	Self-organization is a dynamic and lineage-intrinsic property of mammary epithelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3264-3269.	3.3	52
64	Astrocytic laminin-211 drives disseminated breast tumor cell dormancy in brain. <i>Nature Cancer</i> , 2022, 3, 25-42.	5.7	52
65	Inhibitors of Rho kinase (ROCK) signaling revert the malignant phenotype of breast cancer cells in 3D context. <i>Oncotarget</i> , 2016, 7, 31602-31622.	0.8	47
66	Laminin signals initiate the reciprocal loop that informs breast-specific gene expression and homeostasis by activating NO, p53 and microRNAs. <i>ELife</i> , 2018, 7, .	2.8	45
67	Polarity determination in breast tissue: desmosomal adhesion, myoepithelial cells, and laminin 1. <i>Breast Cancer Research</i> , 2003, 5, 117-9.	2.2	44
68	NF $\kappa$ B disrupts tissue polarity in 3D by preventing integration of microenvironmental signals. <i>Oncotarget</i> , 2013, 4, 2010-2020.	0.8	42
69	Perturbed myoepithelial cell differentiation in BRCA mutation carriers and in ductal carcinoma in situ. <i>Nature Communications</i> , 2019, 10, 4182.	5.8	37
70	Transient external force induces phenotypic reversion of malignant epithelial structures via nitric oxide signaling. <i>ELife</i> , 2018, 7, .	2.8	30
71	Fibronectin rescues estrogen receptor $\beta$ from lysosomal degradation in breast cancer cells. <i>Journal of Cell Biology</i> , 2018, 217, 2777-2798.	2.3	30
72	Asymmetric expression of connexins between luminal epithelial- and myoepithelial- cells is essential for contractile function of the mammary gland. <i>Developmental Biology</i> , 2015, 399, 15-26.	0.9	29

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73	Pathways of parallel progression. <i>Nature</i> , 2016, 540, 528-529.	13.7	29
74	Systems-Level Properties of EGFR-RAS-ERK Signaling Amplify Local Signals to Generate Dynamic Gene Expression Heterogeneity. <i>Cell Systems</i> , 2020, 11, 161-175.e5.	2.9	29
75	Mammary Branching Morphogenesis Requires Reciprocal Signaling by Heparanase and MMP-14. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 1668-1679.	1.2	24
76	The role of tumor microenvironment and exosomes in dormancy and relapse. <i>Seminars in Cancer Biology</i> , 2022, 78, 35-44.	4.3	24
77	Communication between the cell membrane and the nucleus: Role of protein compartmentalization. , 1998, 72, 250-263.		23
78	Trichostatin a inhibits $\kappa$ -casein expression in mammary epithelial cells. <i>Journal of Cellular Biochemistry</i> , 2001, 83, 660-670.	1.2	23
79	SnapShot: Branching Morphogenesis. <i>Cell</i> , 2014, 158, 1212-1212.e1.	13.5	23
80	Subcellular Localization and Ser-137 Phosphorylation Regulate Tumor-suppressive Activity of Profilin-1. <i>Journal of Biological Chemistry</i> , 2015, 290, 9075-9086.	1.6	23
81	The pattern of hMENA isoforms is regulated by TGF- $\beta$ 1 in pancreatic cancer and may predict patient outcome. <i>Oncotarget</i> , 2016, 5, e1221556.	2.1	23
82	Transcriptional activation by viral enhancers: Critical dependence on extracellular matrix-cell interactions in mammary epithelial cells. <i>Molecular Carcinogenesis</i> , 1994, 10, 66-71.	1.3	21
83	New insight into the role of MMP14 in metabolic balance. <i>PeerJ</i> , 2016, 4, e2142.	0.9	21
84	Modelling breast cancer requires identification and correction of a critical cell lineage-dependent transduction bias. <i>Nature Communications</i> , 2015, 6, 6927.	5.8	20
85	The PI3K/mTOR inhibitor Gedatolisib eliminates dormant breast cancer cells in organotypic culture, but fails to prevent metastasis in preclinical settings. <i>Molecular Oncology</i> , 2022, 16, 130-147.	2.1	19
86	An interferon signature identified by RNA-sequencing of mammary tissues varies across the estrous cycle and is predictive of metastasis-free survival. <i>Oncotarget</i> , 2014, 5, 4011-4025.	0.8	19
87	hMENA isoforms impact NSCLC patient outcome through fibronectin/ $\beta$ 1 integrin axis. <i>Oncogene</i> , 2018, 37, 5605-5617.	2.6	17
88	Identification of genetic loci that control mammary tumor susceptibility through the host microenvironment. <i>Scientific Reports</i> , 2015, 5, 8919.	1.6	16
89	Glandular Structure and Gene Expression: Lessons from the Mammary Gland. <i>Annals of the New York Academy of Sciences</i> , 1998, 842, 1-6.	1.8	15
90	Pathways Involved in Formation of Mammary Organoid Architecture Have Keys to Understanding Drug Resistance and to Discovery of Druggable Targets. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2016, 81, 207-217.	2.0	15

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91	Cancer stem cells in breast and prostate: Fact or fiction?. <i>Advances in Cancer Research</i> , 2019, 144, 315-341.	1.9	14
92	Reprogramming stem cells is a microenvironmental task. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15637-15638.	3.3	13
93	The Microenvironment of the Breast: Three-Dimensional Models to Study the Roles of the Stroma and the Extracellular Matrix in Function and Dysfunction. <i>Breast Journal</i> , 1995, 1, 22-35.	0.4	12
94	Network Analysis of Breast Cancer Progression and Reversal Using a Tree-Evolving Network Algorithm. <i>PLoS Computational Biology</i> , 2014, 10, e1003713.	1.5	9
95	Thinking in three dimensions: discovering reciprocal signaling between the extracellular matrix and nucleus and the wisdom of microenvironment and tissue architecture. <i>Molecular Biology of the Cell</i> , 2016, 27, 3192-3196.	0.9	9
96	Iron Supplementation Eliminates Antagonistic Interactions Between Root-Associated Bacteria. <i>Frontiers in Microbiology</i> , 2020, 11, 1742.	1.5	9
97	184AA3: a xenograft model of ER+ breast adenocarcinoma. <i>Breast Cancer Research and Treatment</i> , 2016, 155, 37-52.	1.1	8
98	Rhizobacteria Mediate the Phytotoxicity of a Range of Biorefinery-Relevant Compounds. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 1911-1922.	2.2	7
99	Alterations in Progesterone Receptor Isoform Balance in Normal and Neoplastic Breast Cells Modulates the Stem Cell Population. <i>Cells</i> , 2020, 9, 2074.	1.8	5
100	A Functionally Robust Phenotypic Screen that Identifies Drug Resistance-associated Genes Using 3D Cell Culture. <i>Bio-protocol</i> , 2018, 8, .	0.2	5
101	The not-so-sweet side of sugar: Influence of the microenvironment on the processes that unleash cancer. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165960.	1.8	2
102	Ser71 Phosphorylation Inhibits Actin-Binding of Profilin-1 and Its Apoptosis-Sensitizing Activity. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 692269.	1.8	1
103	Regulation of gene expression by extracellular matrix. <i>Stem Cells</i> , 1995, 13, 86-87.	1.4	0
104	Extracellular Matrix: Tissue-specific Regulator of Cell Proliferation. , 2004, , 297-332.		0
105	Culturing Mammary Stem Cells. , 0, , 281-302.		0
106	Zena Werb (1945-2020). <i>Science</i> , 2020, 369, 1059-1059.	6.0	0
107	Quantitative Model-Based Image Analysis of NuMa Distribution Links Nuclear Organization with Cell Phenotype. <i>Microscopy and Microanalysis</i> , 2001, 7, 578-579.	0.2	0
108	Zena Werb (1945-2020): Mourning the loss of a tissue microenvironment icon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27759-27760.	3.3	0

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109	Generating a Fractal Microstructure of Laminin-111 to Signal to Cells. Journal of Visualized Experiments, 2020, , .	0.2	0