

Mina J Bissell

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

24,027
citations

25034

57
h-index

31849

101
g-index

124
all docs

124
docs citations

124
times ranked

28090
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.6	19
2	The role of tumor microenvironment and exosomes in dormancy and relapse. <i>Seminars in Cancer Biology</i> , 2022, 78, 35-44.	9.6	24
3	Astrocytic laminin-211 drives disseminated breast tumor cell dormancy in brain. <i>Nature Cancer</i> , 2022, 3, 25-42.	13.2	52
4	Ser71 Phosphorylation Inhibits Actin-Binding of Profilin-1 and Its Apoptosis-Sensitizing Activity. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 692269.	3.7	1
5	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.	3.8	2
6	Iron Supplementation Eliminates Antagonistic Interactions Between Root-Associated Bacteria. <i>Frontiers in Microbiology</i> , 2020, 11, 1742.	3.5	9
7	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.	6.2	29
8	Extracellular Vesicle and Particle Biomarkers Define Multiple Human Cancers. <i>Cell</i> , 2020, 182, 1044-1061.e18.	28.9	691
9	Zena Werb (1945–2020). <i>Science</i> , 2020, 369, 1059-1059.	12.6	0
10	Alterations in Progesterone Receptor Isoform Balance in Normal and Neoplastic Breast Cells Modulates the Stem Cell Population. <i>Cells</i> , 2020, 9, 2074.	4.1	5
11	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.	7.1	0
12	Generating a Fractal Microstructure of Laminin-111 to Signal to Cells. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	0
13	Perturbed myoepithelial cell differentiation in BRCA mutation carriers and in ductal carcinoma in situ. <i>Nature Communications</i> , 2019, 10, 4182.	12.8	37
14	Rhizobacteria Mediate the Phytotoxicity of a Range of Biorefinery-Relevant Compounds. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 1911-1922.	4.3	7
15	Cancer stem cells in breast and prostate: Fact or fiction?. <i>Advances in Cancer Research</i> , 2019, 144, 315-341.	5.0	14
16	Modeling Host-Pathogen Interactions in the Context of the Microenvironment: Three-Dimensional Cell Culture Comes of Age. <i>Infection and Immunity</i> , 2018, 86, .	2.2	108
17	Transient external force induces phenotypic reversion of malignant epithelial structures via nitric oxide signaling. <i>ELife</i> , 2018, 7, .	6.0	30
18	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, .	6.0	45

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19	Fibronectin rescues estrogen receptor β from lysosomal degradation in breast cancer cells. <i>Journal of Cell Biology</i> , 2018, 217, 2777-2798.	5.2	30
20	hMENA isoforms impact NSCLC patient outcome through fibronectin/ β 1 integrin axis. <i>Oncogene</i> , 2018, 37, 5605-5617.	5.9	17
21	A Functionally Robust Phenotypic Screen that Identifies Drug Resistance-associated Genes Using 3D Cell Culture. <i>Bio-protocol</i> , 2018, 8, .	0.4	5
22	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.	2.0	64
23	<scp>FAM</scp>83 family oncogenes are broadly involved in human cancers: an integrative multi-omics approach. <i>Molecular Oncology</i> , 2017, 11, 167-179.	4.6	102
24	Laminin-111 and the Level of Nuclear Actin Regulate Epithelial Quiescence via Exportin-6. <i>Cell Reports</i> , 2017, 19, 2102-2115.	6.4	68
25	Pre-metastatic niches: organ-specific homes for metastases. <i>Nature Reviews Cancer</i> , 2017, 17, 302-317.	28.4	1,272
26	Organoids: A historical perspective of thinking in three dimensions. <i>Journal of Cell Biology</i> , 2017, 216, 31-40.	5.2	442
27	Goodbye flat biology – time for the 3rd and the 4th dimensions. <i>Journal of Cell Science</i> , 2017, 130, 3-5.	2.0	57
28	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.	1.1	15
29	The pattern of hMENA isoforms is regulated by TGF- β 1 in pancreatic cancer and may predict patient outcome. <i>Oncotarget</i> , 2016, 7, e1221556.	4.6	23
30	Pathways of parallel progression. <i>Nature</i> , 2016, 540, 528-529.	27.8	29
31	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.	7.1	63
32	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.	2.1	9
33	184AA3: a xenograft model of ER+ breast adenocarcinoma. <i>Breast Cancer Research and Treatment</i> , 2016, 155, 37-52.	2.5	8
34	Inhibitors of Rho kinase (ROCK) signaling revert the malignant phenotype of breast cancer cells in 3D context. <i>Oncotarget</i> , 2016, 7, 31602-31622.	1.8	47
35	New insight into the role of MMP14 in metabolic balance. <i>PeerJ</i> , 2016, 4, e2142.	2.0	21
36	Identification of genetic loci that control mammary tumor susceptibility through the host microenvironment. <i>Scientific Reports</i> , 2015, 5, 8919.	3.3	16

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37	Mammary gland development: cell fate specification, stem cells and the microenvironment. Development (Cambridge), 2015, 142, 1028-1042.	2.5	343
38	Subcellular Localization and Ser-137 Phosphorylation Regulate Tumor-suppressive Activity of Profilin-1. Journal of Biological Chemistry, 2015, 290, 9075-9086.	3.4	23
39	Mammary Branching Morphogenesis Requires Reciprocal Signaling by Heparanase and MMP-14. Journal of Cellular Biochemistry, 2015, 116, 1668-1679.	2.6	24
40	Tumour exosome integrins determine organotropic metastasis. Nature, 2015, 527, 329-335.	27.8	3,688
41	Modelling breast cancer requires identification and correction of a critical cell lineage-dependent transduction bias. Nature Communications, 2015, 6, 6927.	12.8	20
42	Asymmetric expression of connexins between luminal epithelial- and myoepithelial- cells is essential for contractile function of the mammary gland. Developmental Biology, 2015, 399, 15-26.	2.0	29
43	Network Analysis of Breast Cancer Progression and Reversal Using a Tree-Evolving Network Algorithm. PLoS Computational Biology, 2014, 10, e1003713.	3.2	9
44	Sorting Out the FACS: A Devil in the Details. Cell Reports, 2014, 6, 779-781.	6.4	76
45	Of plasticity and specificity: dialectics of the microenvironment and macroenvironment and the organ phenotype. Wiley Interdisciplinary Reviews: Developmental Biology, 2014, 3, 147-163.	5.9	76
46	The need for complex 3D culture models to unravel novel pathways and identify accurate biomarkers in breast cancer. Advanced Drug Delivery Reviews, 2014, 69-70, 42-51.	13.7	273
47	$\alpha 1$ and $\alpha 4$ integrins: from breast development to clinical practice. Breast Cancer Research, 2014, 16, 459.	5.0	57
48	SnapShot: Branching Morphogenesis. Cell, 2014, 158, 1212-1212.e1.	28.9	23
49	An interferon signature identified by RNA-sequencing of mammary tissues varies across the estrous cycle and is predictive of metastasis-free survival. Oncotarget, 2014, 5, 4011-4025.	1.8	19
50	Patterned Collagen Fibers Orient Branching Mammary Epithelium through Distinct Signaling Modules. Current Biology, 2013, 23, 703-709.	3.9	135
51	CSF1R inhibition delays cervical and mammary tumor growth in murine models by attenuating the turnover of tumor-associated macrophages and enhancing infiltration by CD8 ⁺ T cells. Oncoimmunology, 2013, 2, e26968.	4.6	311
52	NFkB disrupts tissue polarity in 3D by preventing integration of microenvironmental signals. Oncotarget, 2013, 4, 2010-2020.	1.8	42
53	Splicing program of human MENA produces a previously undescribed isoform associated with invasive, mesenchymal-like breast tumors. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19280-19285.	7.1	112
54	Coherent angular motion in the establishment of multicellular architecture of glandular tissues. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1973-1978.	7.1	184

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55	The tumor microenvironment is a dominant force in multidrug resistance. Drug Resistance Updates, 2012, 15, 39-49.	14.4	361
56	The tumor microenvironment modulates tamoxifen resistance in breast cancer: a role for soluble stromal factors and fibronectin through $\alpha 5 \beta 1$ integrin. Breast Cancer Research and Treatment, 2012, 133, 459-471.	2.5	143
57	FAM83A confers EGFR-TKI resistance in breast cancer cells and in mice. Journal of Clinical Investigation, 2012, 122, 3211-3220.	8.2	126
58	Why don't we get more cancer? A proposed role of the microenvironment in restraining cancer progression. Nature Medicine, 2011, 17, 320-329.	30.7	1,296
59	Depletion of nuclear actin is a key mediator of quiescence in epithelial cells. Journal of Cell Science, 2011, 124, 123-132.	2.0	128
60	Self-organization is a dynamic and lineage-intrinsic property of mammary epithelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3264-3269.	7.1	52
61	Breast Cancer Cells in Three-dimensional Culture Display an Enhanced Radioresponse after Coordinate Targeting of Integrin $\alpha 5 \beta 1$ and Fibronectin. Cancer Research, 2010, 70, 5238-5248.	0.9	173
62	Raf-induced MMP9 disrupts tissue architecture of human breast cells in three-dimensional culture and is necessary for tumor growth in vivo. Genes and Development, 2010, 24, 2800-2811.	5.9	91
63	Interaction of E-cadherin and PTEN Regulates Morphogenesis and Growth Arrest in Human Mammary Epithelial Cells. Cancer Research, 2009, 69, 4545-4552.	0.9	64
64	Tissue architecture and function: dynamic reciprocity via extra- and intra-cellular matrices. Cancer and Metastasis Reviews, 2009, 28, 167-176.	5.9	274
65	Extracellular matrix control of mammary gland morphogenesis and tumorigenesis: insights from imaging. Histochemistry and Cell Biology, 2008, 130, 1105-18.	1.7	142
66	Laminin and biomimetic extracellular elasticity enhance functional differentiation in mammary epithelia. EMBO Journal, 2008, 27, 2829-2838.	7.8	161
67	Regulation of In Situ to Invasive Breast Carcinoma Transition. Cancer Cell, 2008, 13, 394-406.	16.8	437
68	A Human Breast Cell Model of Preinvasive to Invasive Transition. Cancer Research, 2008, 68, 1378-1387.	0.9	145
69	$\alpha 5 \beta 1$ Integrin Inhibition Dramatically Enhances Radiotherapy Efficacy in Human Breast Cancer Xenografts. Cancer Research, 2008, 68, 4398-4405.	0.9	201
70	Reprogramming stem cells is a microenvironmental task. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15637-15638.	7.1	13
71	The MAPK/ERK-1,2 pathway integrates distinct and antagonistic signals from TGF β and FGF7 in morphogenesis of mouse mammary epithelium. Developmental Biology, 2007, 306, 193-207.	2.0	169
72	Three-dimensional culture models of normal and malignant breast epithelial cells. Nature Methods, 2007, 4, 359-365.	19.0	1,131

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73	Of Microenvironments and Mammary Stem Cells. Stem Cell Reviews and Reports, 2007, 3, 137-146.	5.6	58
74	α 1 Integrin Inhibitory Antibody Induces Apoptosis of Breast Cancer Cells, Inhibits Growth, and Distinguishes Malignant from Normal Phenotype in Three Dimensional Cultures and <i>In vivo</i> . Cancer Research, 2006, 66, 1526-1535.	0.9	303
75	Dystroglycan loss disrupts polarity and α -casein induction in mammary epithelial cells by perturbing laminin anchoring. Journal of Cell Science, 2006, 119, 4047-4058.	2.0	90
76	Tissue Geometry Determines Sites of Mammary Branching Morphogenesis in Organotypic Cultures. Science, 2006, 314, 298-300.	12.6	545
77	Context, tissue plasticity, and cancer. Cancer Cell, 2005, 7, 17-23.	16.8	464
78	Myoepithelial cells: good fences make good neighbors. Breast Cancer Research, 2005, 7, 190-7.	5.0	210
79	Polarity and proliferation are controlled by distinct signaling pathways downstream of PI3-kinase in breast epithelial tumor cells. Journal of Cell Biology, 2004, 164, 603-612.	5.2	353
80	Extracellular Matrix: Tissue-specific Regulator of Cell Proliferation. , 2004, , 297-332.		0
81	Tissue architecture: the ultimate regulator of breast epithelial function. Current Opinion in Cell Biology, 2003, 15, 753-762.	5.4	382
82	Tumor reversion: Correction of malignant behavior by microenvironmental cues. International Journal of Cancer, 2003, 107, 688-695.	5.1	307
83	Polarity determination in breast tissue: desmosomal adhesion, myoepithelial cells, and laminin 1. Breast Cancer Research, 2003, 5, 117-9.	5.0	44
84	Phenotypic Reversion or Death of Cancer Cells by Altering Signaling Pathways in Three-Dimensional Contexts. Journal of the National Cancer Institute, 2002, 94, 1494-1503.	6.3	392
85	α 4 integrin-dependent formation of polarized three-dimensional architecture confers resistance to apoptosis in normal and malignant mammary epithelium. Cancer Cell, 2002, 2, 205-216.	16.8	880
86	The organizing principle: microenvironmental influences in the normal and malignant breast. Differentiation, 2002, 70, 537-546.	1.9	542
87	Normal and tumor-derived myoepithelial cells differ in their ability to interact with luminal breast epithelial cells for polarity and basement membrane deposition. Journal of Cell Science, 2002, 115, 39-50.	2.0	409
88	Normal and tumor-derived myoepithelial cells differ in their ability to interact with luminal breast epithelial cells for polarity and basement membrane deposition. Journal of Cell Science, 2002, 115, 39-50.	2.0	348
89	A role for dystroglycan in epithelial polarization: loss of function in breast tumor cells. Cancer Research, 2002, 62, 7102-9.	0.9	125
90	Trichostatin a inhibits α -casein expression in mammary epithelial cells. Journal of Cellular Biochemistry, 2001, 83, 660-670.	2.6	23

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91	Putting tumours in context. Nature Reviews Cancer, 2001, 1, 46-54.	28.4	1,892
92	Quantitative Model-Based Image Analysis of NuMa Distribution Links Nuclear Organization with Cell Phenotype. Microscopy and Microanalysis, 2001, 7, 578-579.	0.4	0
93	The matrix metalloproteinase stromelysin-1 acts as a natural mammary tumor promoter. Oncogene, 2000, 19, 1102-1113.	5.9	244
94	AZU-1: A Candidate Breast Tumor Suppressor and Biomarker for Tumor Progression. Molecular Biology of the Cell, 2000, 11, 1357-1367.	2.1	84
95	Division of Labor among the $\alpha 6 \beta 4$ Integrin, $\beta 1$ Integrins, and an E3 Laminin Receptor to Signal Morphogenesis and β -Casein Expression in Mammary Epithelial Cells. Molecular Biology of the Cell, 1999, 10, 2817-2828.	2.1	114
96	An odyssey from breast to bone: Multi-step control of mammary metastases and osteolysis by matrix metalloproteinases. Apmis, 1999, 107, 128-136.	2.0	78
97	Glandular Structure and Gene Expression: Lessons from the Mammary Gland. Annals of the New York Academy of Sciences, 1998, 842, 1-6.	3.8	15
98	The Significance of Matrix Metalloproteinases during Early Stages of Tumor Progression. Annals of the New York Academy of Sciences, 1998, 857, 180-193.	3.8	121
99	Communication between the cell membrane and the nucleus: Role of protein compartmentalization. , 1998, 72, 250-263.		23
100	Tissue architecture: the ultimate regulator of epithelial function?. Philosophical Transactions of the Royal Society B: Biological Sciences, 1998, 353, 857-870.	4.0	124
101	Differentiation and Cancer in the Mammary Gland: Shedding Light on an Old Dichotomy. Advances in Cancer Research, 1998, 75, 135-162.	5.0	63
102	Characterization of BCE-1, a Transcriptional Enhancer Regulated by Prolactin and Extracellular Matrix and Modulated by the State of Histone Acetylation. Molecular and Cellular Biology, 1998, 18, 2184-2195.	2.3	111
103	From laminin to lamin: regulation of tissue-specific gene expression by the ECM. Trends in Cell Biology, 1995, 5, 1-4.	7.9	157
104	The Microenvironment of the Breast: Three-Dimensional Models to Study the Roles of the Stroma and the Extracellular Matrix in Function and Dysfunction. Breast Journal, 1995, 1, 22-35.	1.0	12
105	Regulation of gene expression by extracellular matrix. Stem Cells, 1995, 13, 86-87.	3.2	0
106	Transcriptional activation by viral enhancers: Critical dependence on extracellular matrix-cell interactions in mammary epithelial cells. Molecular Carcinogenesis, 1994, 10, 66-71.	2.7	21
107	How does the extracellular matrix direct gene expression?. Journal of Theoretical Biology, 1982, 99, 31-68.	1.7	1,387
108	The Differentiated State of Normal and Malignant Cells or How to Define a "Normal" Cell in Culture. International Review of Cytology, 1981, 70, 27-100.	6.2	194

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109	Culturing Mammary Stem Cells. , 0, , 281-302.		0