

Bonnie F Sloane

List of Publications by Year in descending order

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123
papers

10,712
citations

31902

53
h-index

30848

102
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125
all docs

125
docs citations

125
times ranked

11225
citing authors

#	ARTICLE	IF	CITATIONS
1	multifunctional enzymes in cancer. <i>Nature Reviews Cancer</i> , 2006, 6, 764-775.	12.8	1,134
2	Acidity Generated by the Tumor Microenvironment Drives Local Invasion. <i>Cancer Research</i> , 2013, 73, 1524-1535.	0.4	1,036
3	Bicarbonate Increases Tumor pH and Inhibits Spontaneous Metastases. <i>Cancer Research</i> , 2009, 69, 2260-2268.	0.4	574
4	Unraveling the role of proteases in cancer. <i>Clinica Chimica Acta</i> , 2000, 291, 113-135.	0.5	521
5	Dynamic imaging of protease activity with fluorescently quenched activity-based probes. <i>Nature Chemical Biology</i> , 2005, 1, 203-209.	3.9	331
6	Cathepsin B: Multiple roles in cancer. <i>Proteomics - Clinical Applications</i> , 2014, 8, 427-437.	0.8	285
7	Cysteine cathepsins in human cancer. <i>Biological Chemistry</i> , 2004, 385, 1017-1027.	1.2	270
8	Proteases, Extracellular Matrix, and Cancer. <i>American Journal of Pathology</i> , 2004, 164, 1131-1139.	1.9	202
9	Pericellular cathepsin B and malignant progression. <i>Cancer and Metastasis Reviews</i> , 2003, 22, 271-286.	2.7	199
10	Cathepsin B and its endogenous inhibitors: the role in tumor malignancy. <i>Cancer and Metastasis Reviews</i> , 1990, 9, 333-352.	2.7	185
11	Human Procathepsin B Interacts with the Annexin II Tetramer on the Surface of Tumor Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 12806-12812.	1.6	181
12	Cathepsin B: a potential prognostic marker for inflammatory breast cancer. <i>Journal of Translational Medicine</i> , 2011, 9, 1.	1.8	173
13	Cathepsin B Inhibition Limits Bone Metastasis in Breast Cancer. <i>Cancer Research</i> , 2012, 72, 1199-1209.	0.4	173
14	Cell surface complex of cathepsin B/annexin II tetramer in malignant progression. <i>BBA - Proteins and Proteomics</i> , 2000, 1477, 215-230.	2.1	171
15	Cathepsin B and its role(s) in cancer progression. <i>Biochemical Society Symposia</i> , 2003, 70, 263-276.	2.7	167
16	Cathepsin B and tumor proteolysis: contribution of the tumor microenvironment. <i>Seminars in Cancer Biology</i> , 2005, 15, 149-157.	4.3	153
17	Imaging Proteolysis by Living Human Breast Cancer Cells. <i>Neoplasia</i> , 2000, 2, 496-504.	2.3	135
18	Expression of cathepsins B and S in the progression of prostate carcinoma. <i>International Journal of Cancer</i> , 2001, 95, 51-55.	2.3	134

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19	Exocytosis of active cathepsin B. Enzyme activity at pH 7.0, inhibition and molecular mass. FEBS Journal, 1999, 264, 100-109.	0.2	131
20	Molecular Regulation of Human Cathepsin B: Implication in Pathologies. Biological Chemistry, 2003, 384, 845-54.	1.2	125
21	Caveolin-1 mediates the expression and localization of cathepsin B, pro-urokinase plasminogen activator and their cell-surface receptors in human colorectal carcinoma cells. Journal of Cell Science, 2005, 118, 1493-1503.	1.2	125
22	Degradation of laminin by human tumor cathepsin B. Clinical and Experimental Metastasis, 1989, 7, 461-468.	1.7	124
23	Immunolocalization of cathepsin B in human glioma: implications for tumor invasion and angiogenesis. Journal of Neurosurgery, 1995, 83, 285-290.	0.9	118
24	A Lipoxygenase Metabolite, 12-(S)-HETE, Stimulates Protein Kinase C-Mediated Release of Cathepsin B from Malignant Cells. Experimental Cell Research, 1994, 214, 120-130.	1.2	105
25	Live-cell imaging demonstrates extracellular matrix degradation in association with active cathepsin B in caveolae of endothelial cells during tube formation. Experimental Cell Research, 2009, 315, 1234-1246.	1.2	105
26	Lysosomal Cathepsin B Participates in the Podosome-Mediated Extracellular Matrix Degradation and Invasion via Secreted Lysosomes in v-Src Fibroblasts. Cancer Research, 2008, 68, 9147-9156.	0.4	102
27	Cathepsin B and glioma invasion. International Journal of Developmental Neuroscience, 1999, 17, 483-494.	0.7	97
28	Molecular regulation, membrane association and secretion of tumor cathepsin B. Apmis, 1999, 107, 28-37.	0.9	94
29	Fibroblast Hepatocyte Growth Factor Promotes Invasion of Human Mammary Ductal Carcinoma <i>in situ</i> . Cancer Research, 2009, 69, 9148-9155.	0.4	93
30	Immunohistochemical analysis of cathepsins D, B, and L in human breast cancer. Human Pathology, 1994, 25, 857-862.	1.1	92
31	Inhibition of cathepsin B activity attenuates extracellular matrix degradation and inflammatory breast cancer invasion. Breast Cancer Research, 2011, 13, R115.	2.2	91
32	Acid-Mediated Tumor Proteolysis: Contribution of Cysteine Cathepsins. Neoplasia, 2013, 15, 1125-IN9.	2.3	88
33	Degradation of Extracellular Matrix Protein Tenascin-C by Cathepsin B: An Interaction Involved in the Progression of Gliomas. Biological Chemistry, 2002, 383, 1407-13.	1.2	86
34	Mutant K-ras Regulates Cathepsin B Localization on the Surface of Human Colorectal Carcinoma Cells. Neoplasia, 2003, 5, 507-519.	2.3	84
35	Phorbol Ester Activation of a Proteolytic Cascade Capable of Activating Latent Transforming Growth Factor- β . Journal of Biological Chemistry, 2002, 277, 14829-14837.	1.6	83
36	Cathepsin B and D are localized at the surface of human breast cancer cells. Pathology and Oncology Research, 1995, 1, 43-53.	0.9	82

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37	Identification of two new exons and multiple transcription start points in the 5' untranslated region of the human cathepsin-B-encoding gene. <i>Gene</i> , 1995, 159, 143-149.	1.0	82
38	Analysis of Host- and Tumor-Derived Proteinases Using a Custom Dual Species Microarray Reveals a Protective Role for Stromal Matrix Metalloproteinase-12 in Non-Small Cell Lung Cancer. <i>Cancer Research</i> , 2006, 66, 7968-7975.	0.4	82
39	Transcription of Human Cathepsin B Is Mediated by Sp1 and Ets Family Factors in Glioma. <i>DNA and Cell Biology</i> , 2000, 19, 79-91.	0.9	79
40	Cathepsin B: Multiple Enzyme Forms from a Single Gene and Their Relation to Cancer. <i>Enzyme & Protein</i> , 1996, 49, 94-105.	1.6	77
41	Immunohistochemical localization of cathepsin B in neoplastic human prostate. <i>Prostate</i> , 1995, 26, 171-178.	1.2	76
42	Cystatin M suppresses the malignant phenotype of human MDA-MB-435S cells. <i>Oncogene</i> , 2004, 23, 2206-2215.	2.6	76
43	p21-Activated Kinase 1 Coordinates Aberrant Cell Survival and Pericellular Proteolysis in a Three-Dimensional Culture Model for Premalignant Progression of Human Breast Cancer. <i>Neoplasia</i> , 2008, 10, 314-IN1.	2.3	76
44	Cytokines secreted by macrophages isolated from tumor microenvironment of inflammatory breast cancer patients possess chemotactic properties. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 46, 138-147.	1.2	76
45	Il-6 signaling between ductal carcinoma in situ cells and carcinoma-associated fibroblasts mediates tumor cell growth and migration. <i>BMC Cancer</i> , 2015, 15, 584.	1.1	76
46	Cathepsin C is a tissue-specific regulator of squamous carcinogenesis. <i>Genes and Development</i> , 2013, 27, 2086-2098.	2.7	74
47	Functional Imaging of Proteolysis: Stromal and Inflammatory Cells Increase Tumor Proteolysis. <i>Molecular Imaging</i> , 2003, 2, 159-175.	0.7	73
48	FUNCTIONAL IMAGING OF TUMOR PROTEOLYSIS. <i>Annual Review of Pharmacology and Toxicology</i> , 2006, 46, 301-315.	4.2	67
49	Analysis of a Truncated Form of Cathepsin H in Human Prostate Tumor Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 11533-11538.	1.6	66
50	Interleukin-6 Increases Expression and Secretion of Cathepsin B by Breast Tumor-Associated Monocytes. <i>Cellular Physiology and Biochemistry</i> , 2010, 25, 315-324.	1.1	65
51	Localization of a biotinylated cathepsin B oligonucleotide probe in human prostate including invasive cells and invasive edges by in situ hybridization. <i>The Anatomical Record</i> , 1993, 235, 233-240.	2.3	63
52	Interaction of Human Breast Fibroblasts with Collagen I Increases Secretion of Procathepsin B. <i>Journal of Biological Chemistry</i> , 2002, 277, 32220-32227.	1.6	63
53	Acidosis and proteolysis in the tumor microenvironment. <i>Cancer and Metastasis Reviews</i> , 2019, 38, 103-112.	2.7	61
54	Differential Localization of Cysteine Protease Inhibitors and a Target Cysteine Protease, Cathepsin B, by Immuno-Confocal Microscopy. <i>Journal of Histochemistry and Cytochemistry</i> , 1998, 46, 745-751.	1.3	52

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55	Fluorescent microplate assay for cancer cell-associated cathepsin B. FEBS Journal, 2000, 267, 4165-4170.	0.2	51
56	Cathepsin B in angiogenesis of human prostate: An immunohistochemical and immunoelectron microscopic analysis. The Anatomical Record, 1995, 241, 353-362.	2.3	48
57	Visualizing Protease Activity in Living Cells: From Two Dimensions to Four Dimensions. Current Protocols in Cell Biology, 2008, 39, Unit 4.20.	2.3	47
58	The cysteine protease cathepsin B in cancer. Journal of Computer - Aided Molecular Design, 1996, 6, 12-32.	1.0	46
59	Oncogenic c-Ki-ras but Not Oncogenic c-Ha-ras Up-regulates CEA Expression and Disrupts Basolateral Polarity in Colon Epithelial Cells. Journal of Biological Chemistry, 1997, 272, 27902-27907.	1.6	46
60	Imaging and quantifying the dynamics of tumor-associated proteolysis. Clinical and Experimental Metastasis, 2009, 26, 299-309.	1.7	44
61	Myoepithelial cell-specific expression of stefin A as a suppressor of early breast cancer invasion. Journal of Pathology, 2017, 243, 496-509.	2.1	44
62	Plasma membrane association of cathepsin B in human prostate cancer: Biochemical and immunogold electron microscopic analysis. Prostate, 2001, 49, 172-184.	1.2	43
63	Metabotropic Glutamate Receptor-1 Contributes to Progression in Triple Negative Breast Cancer. PLoS ONE, 2014, 9, e81126.	1.1	43
64	Cabozantinib (XL184) Inhibits Growth and Invasion of Preclinical TNBC Models. Clinical Cancer Research, 2016, 22, 923-934.	3.2	43
65	Involvement of a cathepsin B-like cysteine proteinase in platelet aggregation induced by tumor cells and their shed membrane vesicles. Clinical and Experimental Metastasis, 1983, 1, 297-307.	1.7	42
66	Enhanced levels of cathepsin B mRNA in murine tumors. FEBS Letters, 1989, 244, 61-64.	1.3	42
67	Next-generation sequencing: a powerful tool for the discovery of molecular markers in breast ductal carcinoma in situ. Expert Review of Molecular Diagnostics, 2013, 13, 151-165.	1.5	40
68	Suicidal tumor proteases. Nature Biotechnology, 1996, 14, 826-827.	9.4	38
69	Rac1-Induced Endocytosis Is Associated with Intracellular Proteolysis during Migration through a Three-Dimensional Matrix. Experimental Cell Research, 2000, 260, 292-303.	1.2	37
70	RNA-Seq of Human Breast Ductal Carcinoma In Situ Models Reveals Aldehyde Dehydrogenase Isoform 5A1 as a Novel Potential Target. PLoS ONE, 2012, 7, e50249.	1.1	37
71	MAME Models for 4D Live-cell Imaging of Tumor: Microenvironment Interactions that Impact Malignant Progression. Journal of Visualized Experiments, 2012, , .	0.2	36
72	Cathepsin B contributes to Na ⁺ hyperabsorption in cystic fibrosis airway epithelial cultures. Journal of Physiology, 2014, 592, 5251-5268.	1.3	35

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73	Tumor Cell Membrane Cathepsin B. <i>Biological Chemistry</i> , 1998, 379, 1093-9.	1.2	33
74	Cathepsin B localizes to plasma membrane caveolae of differentiating myoblasts and is secreted in an active form at physiological pH. <i>Biological Chemistry</i> , 2006, 387, 223-34.	1.2	33
75	Imaging Proteolysis by Living Human Glioma Cells. <i>Biological Chemistry</i> , 2001, 382, 785-8.	1.2	32
76	Malignant transformation alters intracellular trafficking of lysosomal cathepsin D in human breast epithelial cells. <i>Pathology and Oncology Research</i> , 1998, 4, 283-296.	0.9	30
77	Ratio of cathepsin B to stefin A identifies heterogeneity within Gleason histologic scores for human prostate cancer. <i>Prostate</i> , 2001, 48, 274-284.	1.2	29
78	In Vitro Models for Studying Invasive Transitions of Ductal Carcinoma In Situ. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2019, 24, 1-15.	1.0	29
79	Differentiating agents regulate cathepsin B gene expression in HL-60 cells. <i>Journal of Leukocyte Biology</i> , 1999, 66, 609-616.	1.5	28
80	Three-dimensional cultures modeling premalignant progression of human breast epithelial cells: role of cysteine cathepsins. <i>Biological Chemistry</i> , 2012, 393, 1405-1416.	1.2	28
81	Expression of cathepsins B, D and L in mouse corneas infected with <i>Pseudomonas aeruginosa</i> . <i>FEBS Journal</i> , 2001, 268, 6408-6416.	0.2	27
82	Functional Live-Cell Imaging Demonstrates that β_1 -Integrin Promotes Type IV Collagen Degradation by Breast and Prostate Cancer Cells. <i>Molecular Imaging</i> , 2008, 7, 7290.2008.00019.	0.7	27
83	Imaging Proteolysis by Living Human Glioma Cells. <i>Biological Chemistry</i> , 2001, 382, .	1.2	25
84	Live-cell imaging of tumor proteolysis: Impact of cellular and non-cellular microenvironment. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 123-132.	1.1	25
85	Pathomimetic avatars reveal divergent roles of microenvironment in invasive transition of ductal carcinoma in situ. <i>Breast Cancer Research</i> , 2017, 19, 56.	2.2	24
86	Codistribution of procathepsin B and mature cathepsin B forms in human prostate tumors detected by confocal and immunofluorescence microscopy. <i>The Anatomical Record</i> , 1998, 252, 281-289.	2.3	22
87	Isolation of a novel USF2 isoform: repressor of cathepsin B expression. <i>Gene</i> , 2004, 337, 199-206.	1.0	22
88	Functional live-cell imaging demonstrates that beta1-integrin promotes type IV collagen degradation by breast and prostate cancer cells. <i>Molecular Imaging</i> , 2008, 7, 199-213.	0.7	22
89	Evidence for the involvement of cathepsin B in skeletal myoblast differentiation. <i>Journal of Cellular Biochemistry</i> , 2002, 84, 520-531.	1.2	20
90	Hu/Mu ProtIn Oligonucleotide Microarray: Dual-Species Array for Profiling Protease and Protease Inhibitor Gene Expression in Tumors and Their Microenvironment. <i>Molecular Cancer Research</i> , 2007, 5, 443-454.	1.5	20

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91	Imaging Sites of Inhibition of Proteolysis in Pathomimetic Human Breast Cancer Cultures by Light-Activated Ruthenium Compound. PLoS ONE, 2015, 10, e0142527.	1.1	20
92	Transcription of Cathepsin B in Glioma Cells: Regulation by an E-Box Adjacent to the Transcription Initiation Site. Biological Chemistry, 2003, 384, 1421-7.	1.2	18
93	Cysteine cathepsin non-inhibitory binding partners: modulating intracellular trafficking and function. Biological Chemistry, 2007, 388, 1131-40.	1.2	18
94	Human monocytes augment invasiveness and proteolytic activity of inflammatory breast cancer. Biological Chemistry, 2008, 389, 1117-21.	1.2	18
95	Downregulation of Rap1Gap: A Switch from DCIS to Invasive Breast Carcinoma via ERK/MAPK Activation. Neoplasia, 2018, 20, 951-963.	2.3	18
96	Expression of functional recombinant human procathepsin B in mammalian cells. Biochemical Journal, 1996, 319, 793-800.	1.7	17
97	Functional Imaging of Proteolysis: Stromal and Inflammatory Cells Increase Tumor Proteolysis. Molecular Imaging, 2003, 2, 153535002003031.	0.7	17
98	3D/4D Functional Imaging of Tumor-Associated Proteolysis. Methods in Enzymology, 2012, 506, 175-194.	0.4	17
99	Bacterial expression of human cysteine proteinase inhibitor stefin A. FEBS Letters, 1989, 257, 55-58.	1.3	16
100	Exon 2 of human cathepsin B derives from an Alu element. FEBS Letters, 1997, 419, 121-123.	1.3	16
101	Increased carcinogenic potential of myeloid tumor cells induced by aberrant TGF- β 1-signaling and upregulation of cathepsin B. Biological Chemistry, 2007, 388, 639-50.	1.2	16
102	Capturing and Characterizing Immune Cells from Breast Tumor Microenvironment: An Innovative Surgical Approach. Annals of Surgical Oncology, 2010, 17, 2677-2684.	0.7	16
103	A flexible Ag/AgCl micro reference electrode based on a parylene tube structure. Sensors and Actuators B: Chemical, 2017, 247, 92-97.	4.0	15
104	Many Roles of CCL20: Emphasis on Breast Cancer. Postdoc Journal, 2014, 2, 7-16.	0.4	15
105	Photodynamic therapy as an effective therapeutic approach in MAME models of inflammatory breast cancer. Breast Cancer Research and Treatment, 2015, 154, 251-262.	1.1	11
106	A membrane-associated cysteine protease inhibitor from murine hepatoma. FEBS Letters, 1992, 309, 279-282.	1.3	10
107	Proteases in Cancer: Significance for Invasion and Metastasis. , 2013, , 491-550.		10
108	Spatio-temporal modeling and live-cell imaging of proteolysis in the 4D microenvironment of breast cancer. Cancer and Metastasis Reviews, 2019, 38, 445-454.	2.7	9

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109	Breast Cancer: Proteolysis and Migration. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1152, 401-411.	0.8	9
110	Live-Cell Imaging of Protease Activity: Assays to Screen Therapeutic Approaches. <i>Methods in Molecular Biology</i> , 2017, 1574, 215-225.	0.4	8
111	Cathepsin B-deficient mice as source of monoclonal anti-cathepsin B antibodies. <i>Biological Chemistry</i> , 2015, 396, 277-281.	1.2	7
112	The role of platelets in metastasis. <i>Biorheology</i> , 1987, 24, 127-137.	1.2	5
113	Anti-tumor and immune modulating activity of T cell induced tumor-targeting effectors (TITE). <i>Cancer Immunology, Immunotherapy</i> , 2021, 70, 633-656.	2.0	5
114	Fluorescent Imaging of Tumors. , 2007, , 281-302.		5
115	Pathomimetic cancer avatars for live-cell imaging of protease activity. <i>Biochimie</i> , 2016, 122, 68-76.	1.3	4
116	On How Mammary Gland Reprogramming Metalloproteinases Couple Form with Function. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a013474-a013474.	2.3	3
117	Sprouty4 negatively regulates ERK/MAPK signaling and the transition from in situ to invasive breast ductal carcinoma. <i>PLoS ONE</i> , 2021, 16, e0252314.	1.1	3
118	Microarrays for Protease Detection in Tissues and Cells. <i>Methods in Molecular Biology</i> , 2009, 539, 49-57.	0.4	2
119	Screening of gastric cancer cell sublines using the adhesion method. <i>Chinese Journal of Digestive Diseases</i> , 2001, 2, 121-124.	1.1	1
120	Cathepsin B. , 2016, , 1-17.		1
121	Modeling Tumor: Lymphatic Interactions in Lymphatic Metastasis of Triple Negative Breast Cancer. <i>Cancers</i> , 2021, 13, 6044.	1.7	1
122	Modeling Breast Cancer Progression in 4-D. , 2013, , 177-188.		0
123	Cathepsin B. , 2018, , 746-762.		0