

# 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  
g-index

125  
all docs

125  
docs citations

125  
times ranked

11225  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Modeling Tumor: Lymphatic Interactions in Lymphatic Metastasis of Triple Negative Breast Cancer. <i>Cancers</i> , 2021, 13, 6044.	1.7	1
4	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
5	Spatio-temporal modeling and live-cell imaging of proteolysis in the 4D microenvironment of breast cancer. <i>Cancer and Metastasis Reviews</i> , 2019, 38, 445-454.	2.7	9
6	Acidosis and proteolysis in the tumor microenvironment. <i>Cancer and Metastasis Reviews</i> , 2019, 38, 103-112.	2.7	61
7	Breast Cancer: Proteolysis and Migration. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1152, 401-411.	0.8	9
8	Downregulation of Rap1Gap: A Switch from DCIS to Invasive Breast Carcinoma via ERK/MAPK Activation. <i>Neoplasia</i> , 2018, 20, 951-963.	2.3	18
9	Cathepsin B. , 2018, , 746-762.		0
10	A flexible Ag/AgCl micro reference electrode based on a parylene tube structure. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 92-97.	4.0	15
11	Live-Cell Imaging of Protease Activity: Assays to Screen Therapeutic Approaches. <i>Methods in Molecular Biology</i> , 2017, 1574, 215-225.	0.4	8
12	Myoepithelial cell-specific expression of stefin A as a suppressor of early breast cancer invasion. <i>Journal of Pathology</i> , 2017, 243, 496-509.	2.1	44
13	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
14	Pathomimetic cancer avatars for live-cell imaging of protease activity. <i>Biochimie</i> , 2016, 122, 68-76.	1.3	4
15	Cabozantinib (XL184) Inhibits Growth and Invasion of Preclinical TNBC Models. <i>Clinical Cancer Research</i> , 2016, 22, 923-934.	3.2	43
16	Cathepsin B. , 2016, , 1-17.		1
17	Imaging Sites of Inhibition of Proteolysis in Pathomimetic Human Breast Cancer Cultures by Light-Activated Ruthenium Compound. <i>PLoS ONE</i> , 2015, 10, e0142527.	1.1	20
18	Cathepsin B-deficient mice as source of monoclonal anti-cathepsin B antibodies. <i>Biological Chemistry</i> , 2015, 396, 277-281.	1.2	7

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19	Photodynamic therapy as an effective therapeutic approach in MAME models of inflammatory breast cancer. <i>Breast Cancer Research and Treatment</i> , 2015, 154, 251-262.	1.1	11
20	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
21	Metabotropic Glutamate Receptor-1 Contributes to Progression in Triple Negative Breast Cancer. <i>PLoS ONE</i> , 2014, 9, e81126.	1.1	43
22	Cathepsin B contributes to Na <sup>+</sup> hyperabsorption in cystic fibrosis airway epithelial cultures. <i>Journal of Physiology</i> , 2014, 592, 5251-5268.	1.3	35
23	Cathepsin B: Multiple roles in cancer. <i>Proteomics - Clinical Applications</i> , 2014, 8, 427-437.	0.8	285
24	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
25	Many Roles of CCL20: Emphasis on Breast Cancer. <i>Postdoc Journal</i> , 2014, 2, 7-16.	0.4	15
26	Acid-Mediated Tumor Proteolysis: Contribution of Cysteine Cathepsins. <i>Neoplasia</i> , 2013, 15, 1125-IN9.	2.3	88
27	Next-generation sequencing: a powerful tool for the discovery of molecular markers in breast ductal carcinoma <i>in situ</i> . <i>Expert Review of Molecular Diagnostics</i> , 2013, 13, 151-165.	1.5	40
28	Modeling Breast Cancer Progression in 4-D. , 2013, , 177-188.		0
29	Acidity Generated by the Tumor Microenvironment Drives Local Invasion. <i>Cancer Research</i> , 2013, 73, 1524-1535.	0.4	1,036
30	Cathepsin C is a tissue-specific regulator of squamous carcinogenesis. <i>Genes and Development</i> , 2013, 27, 2086-2098.	2.7	74
31	Proteases in Cancer: Significance for Invasion and Metastasis. , 2013, , 491-550.		10
32	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
33	Cathepsin B Inhibition Limits Bone Metastasis in Breast Cancer. <i>Cancer Research</i> , 2012, 72, 1199-1209.	0.4	173
34	MAME Models for 4D Live-cell Imaging of Tumor: Microenvironment Interactions that Impact Malignant Progression. <i>Journal of Visualized Experiments</i> , 2012, , .	0.2	36
35	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
36	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

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37	3D/4D Functional Imaging of Tumor-Associated Proteolysis. <i>Methods in Enzymology</i> , 2012, 506, 175-194.	0.4	17
38	RNA-Seq of Human Breast Ductal Carcinoma In Situ Models Reveals Aldehyde Dehydrogenase Isoform 5A1 as a Novel Potential Target. <i>PLoS ONE</i> , 2012, 7, e50249.	1.1	37
39	Inhibition of cathepsin B activity attenuates extracellular matrix degradation and inflammatory breast cancer invasion. <i>Breast Cancer Research</i> , 2011, 13, R115.	2.2	91
40	Cathepsin B: a potential prognostic marker for inflammatory breast cancer. <i>Journal of Translational Medicine</i> , 2011, 9, 1.	1.8	173
41	Capturing and Characterizing Immune Cells from Breast Tumor Microenvironment: An Innovative Surgical Approach. <i>Annals of Surgical Oncology</i> , 2010, 17, 2677-2684.	0.7	16
42	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
43	Fibroblast Hepatocyte Growth Factor Promotes Invasion of Human Mammary Ductal Carcinoma <i>in situ</i> . <i>Cancer Research</i> , 2009, 69, 9148-9155.	0.4	93
44	Live-cell imaging demonstrates extracellular matrix degradation in association with active cathepsin B in caveolae of endothelial cells during tube formation. <i>Experimental Cell Research</i> , 2009, 315, 1234-1246.	1.2	105
45	Imaging and quantifying the dynamics of tumor-associated proteolysis. <i>Clinical and Experimental Metastasis</i> , 2009, 26, 299-309.	1.7	44
46	Bicarbonate Increases Tumor pH and Inhibits Spontaneous Metastases. <i>Cancer Research</i> , 2009, 69, 2260-2268.	0.4	574
47	Microarrays for Protease Detection in Tissues and Cells. <i>Methods in Molecular Biology</i> , 2009, 539, 49-57.	0.4	2
48	Visualizing Protease Activity in Living Cells: From Two Dimensions to Four Dimensions. <i>Current Protocols in Cell Biology</i> , 2008, 39, Unit 4.20.	2.3	47
49	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
50	Human monocytes augment invasiveness and proteolytic activity of inflammatory breast cancer. <i>Biological Chemistry</i> , 2008, 389, 1117-21.	1.2	18
51	Lysosomal Cathepsin B Participates in the Podosome-Mediated Extracellular Matrix Degradation and Invasion via Secreted Lysosomes in v-Src Fibroblasts. <i>Cancer Research</i> , 2008, 68, 9147-9156.	0.4	102
52	Functional Live-Cell Imaging Demonstrates that $\beta$ <sup>1</sup> -Integrin Promotes Type IV Collagen Degradation by Breast and Prostate Cancer Cells. <i>Molecular Imaging</i> , 2008, 7, 7290.2008.00019.	0.7	27
53	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
54	Increased carcinogenic potential of myeloid tumor cells induced by aberrant TGF- $\beta$ <sup>1</sup> -signaling and upregulation of cathepsin B. <i>Biological Chemistry</i> , 2007, 388, 639-50.	1.2	16

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55	Cysteine cathepsin non-inhibitory binding partners: modulating intracellular trafficking and function. <i>Biological Chemistry</i> , 2007, 388, 1131-40.	1.2	18
56	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
57	Fluorescent Imaging of Tumors. , 2007, , 281-302.		5
58	multifunctional enzymes in cancer. <i>Nature Reviews Cancer</i> , 2006, 6, 764-775.	12.8	1,134
59	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
60	FUNCTIONAL IMAGING OF TUMOR PROTEOLYSIS. <i>Annual Review of Pharmacology and Toxicology</i> , 2006, 46, 301-315.	4.2	67
61	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
62	Dynamic imaging of protease activity with fluorescently quenched activity-based probes. <i>Nature Chemical Biology</i> , 2005, 1, 203-209.	3.9	331
63	Cathepsin B and tumor proteolysis: contribution of the tumor microenvironment. <i>Seminars in Cancer Biology</i> , 2005, 15, 149-157.	4.3	153
64	Caveolin-1 mediates the expression and localization of cathepsin B, pro-urokinase plasminogen activator and their cell-surface receptors in human colorectal carcinoma cells. <i>Journal of Cell Science</i> , 2005, 118, 1493-1503.	1.2	125
65	Cystatin M suppresses the malignant phenotype of human MDA-MB-435S cells. <i>Oncogene</i> , 2004, 23, 2206-2215.	2.6	76
66	Cysteine cathepsins in human cancer. <i>Biological Chemistry</i> , 2004, 385, 1017-1027.	1.2	270
67	Isolation of a novel USF2 isoform: repressor of cathepsin B expression. <i>Gene</i> , 2004, 337, 199-206.	1.0	22
68	Proteases, Extracellular Matrix, and Cancer. <i>American Journal of Pathology</i> , 2004, 164, 1131-1139.	1.9	202
69	Pericellular cathepsin B and malignant progression. <i>Cancer and Metastasis Reviews</i> , 2003, 22, 271-286.	2.7	199
70	Mutant K-ras Regulates Cathepsin B Localization on the Surface of Human Colorectal Carcinoma Cells. <i>Neoplasia</i> , 2003, 5, 507-519.	2.3	84
71	Transcription of Cathepsin B in Glioma Cells: Regulation by an E-Box Adjacent to the Transcription Initiation Site. <i>Biological Chemistry</i> , 2003, 384, 1421-7.	1.2	18
72	Molecular Regulation of Human Cathepsin B: Implication in Pathologies. <i>Biological Chemistry</i> , 2003, 384, 845-54.	1.2	125

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73	Functional Imaging of Proteolysis: Stromal and Inflammatory Cells Increase Tumor Proteolysis. <i>Molecular Imaging</i> , 2003, 2, 153535002003031.	0.7	17
74	Cathepsin B and its role(s) in cancer progression. <i>Biochemical Society Symposia</i> , 2003, 70, 263-276.	2.7	167
75	Functional Imaging of Proteolysis: Stromal and Inflammatory Cells Increase Tumor Proteolysis. <i>Molecular Imaging</i> , 2003, 2, 159-175.	0.7	73
76	Degradation of Extracellular Matrix Protein Tenascin-C by Cathepsin B: An Interaction Involved in the Progression of Gliomas. <i>Biological Chemistry</i> , 2002, 383, 1407-13.	1.2	86
77	Phorbol Ester Activation of a Proteolytic Cascade Capable of Activating Latent Transforming Growth Factor- $\beta$ . <i>Journal of Biological Chemistry</i> , 2002, 277, 14829-14837.	1.6	83
78	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
79	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
80	Evidence for the involvement of cathepsin B in skeletal myoblast differentiation. <i>Journal of Cellular Biochemistry</i> , 2002, 84, 520-531.	1.2	20
81	Screening of gastric cancer cell sublines using the adhesion method. <i>Chinese Journal of Digestive Diseases</i> , 2001, 2, 121-124.	1.1	1
82	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
83	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
84	Plasma membrane association of cathepsin B in human prostate cancer: Biochemical and immunogold electron microscopic analysis. <i>Prostate</i> , 2001, 49, 172-184.	1.2	43
85	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
86	Imaging Proteolysis by Living Human Glioma Cells. <i>Biological Chemistry</i> , 2001, 382, 785-8.	1.2	32
87	Imaging Proteolysis by Living Human Glioma Cells. <i>Biological Chemistry</i> , 2001, 382, .	1.2	25
88	Fluorescent microplate assay for cancer cell-associated cathepsin $\beta$ . <i>FEBS Journal</i> , 2000, 267, 4165-4170.	0.2	51
89	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
90	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

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91	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
92	Rac1-Induced Endocytosis Is Associated with Intracellular Proteolysis during Migration through a Three-Dimensional Matrix. <i>Experimental Cell Research</i> , 2000, 260, 292-303.	1.2	37
93	Unraveling the role of proteases in cancer. <i>Clinica Chimica Acta</i> , 2000, 291, 113-135.	0.5	521
94	Imaging Proteolysis by Living Human Breast Cancer Cells. <i>Neoplasia</i> , 2000, 2, 496-504.	2.3	135
95	Molecular regulation, membrane association and secretion of tumor cathepsin B. <i>Apmis</i> , 1999, 107, 28-37.	0.9	94
96	Exocytosis of active cathepsin B. Enzyme activity at pH 7.0, inhibition and molecular mass. <i>FEBS Journal</i> , 1999, 264, 100-109.	0.2	131
97	Cathepsin B and glioma invasion. <i>International Journal of Developmental Neuroscience</i> , 1999, 17, 483-494.	0.7	97
98	Differentiating agents regulate cathepsin B gene expression in HL-60 cells. <i>Journal of Leukocyte Biology</i> , 1999, 66, 609-616.	1.5	28
99	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
100	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
101	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
102	Tumor Cell Membrane Cathepsin B. <i>Biological Chemistry</i> , 1998, 379, 1093-9.	1.2	33
103	Oncogenic c-Ki-ras but Not Oncogenic c-Ha-ras Up-regulates CEA Expression and Disrupts Basolateral Polarity in Colon Epithelial Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 27902-27907.	1.6	46
104	Exon 2 of human cathepsin B derives from an Alu element. <i>FEBS Letters</i> , 1997, 419, 121-123.	1.3	16
105	Cathepsin B: Multiple Enzyme Forms from a Single Gene and Their Relation to Cancer. <i>Enzyme &amp; Protein</i> , 1996, 49, 94-105.	1.6	77
106	Expression of functional recombinant human procathepsin B in mammalian cells. <i>Biochemical Journal</i> , 1996, 319, 793-800.	1.7	17
107	The cysteine protease cathepsin B in cancer. <i>Journal of Computer - Aided Molecular Design</i> , 1996, 6, 12-32.	1.0	46
108	Suicidal tumor proteases. <i>Nature Biotechnology</i> , 1996, 14, 826-827.	9.4	38

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109	Cathepsin B in angiogenesis of human prostate: An immunohistochemical and immunoelectron microscopic analysis. <i>The Anatomical Record</i> , 1995, 241, 353-362.	2.3	48
110	Immunohistochemical localization of cathepsin B in neoplastic human prostate. <i>Prostate</i> , 1995, 26, 171-178.	1.2	76
111	Cathepsin B and D are localized at the surface of human breast cancer cells. <i>Pathology and Oncology Research</i> , 1995, 1, 43-53.	0.9	82
112	Immunolocalization of cathepsin B in human glioma: implications for tumor invasion and angiogenesis. <i>Journal of Neurosurgery</i> , 1995, 83, 285-290.	0.9	118
113	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
114	A Lipoxygenase Metabolite, 12-(S)-HETE, Stimulates Protein Kinase C-Mediated Release of Cathepsin B from Malignant Cells. <i>Experimental Cell Research</i> , 1994, 214, 120-130.	1.2	105
115	Immunohistochemical analysis of cathepsins D, B, and L in human breast cancer. <i>Human Pathology</i> , 1994, 25, 857-862.	1.1	92
116	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
117	A membrane-associated cysteine protease inhibitor from murine hepatoma. <i>FEBS Letters</i> , 1992, 309, 279-282.	1.3	10
118	Cathepsin B and its endogenous inhibitors: the role in tumor malignancy. <i>Cancer and Metastasis Reviews</i> , 1990, 9, 333-352.	2.7	185
119	Degradation of laminin by human tumor cathepsin B. <i>Clinical and Experimental Metastasis</i> , 1989, 7, 461-468.	1.7	124
120	Enhanced levels of cathepsin B mRNA in murine tumors. <i>FEBS Letters</i> , 1989, 244, 61-64.	1.3	42
121	Bacterial expression of human cysteine proteinase inhibitor stefin A. <i>FEBS Letters</i> , 1989, 257, 55-58.	1.3	16
122	The role of platelets in metastasis. <i>Biorheology</i> , 1987, 24, 127-137.	1.2	5
123	Involvement of a cathepsin B-like cysteine proteinase in platelet aggregation induced by tumor cells and their shed membrane vesicles. <i>Clinical and Experimental Metastasis</i> , 1983, 1, 297-307.	1.7	42