

Georgina S Butler

List of Publications by Year in descending order

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papers

5,412
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126858

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times ranked

6008
citing authors

#	ARTICLE	IF	CITATIONS
1	Matrix Metalloproteinase Activity Inactivates the CXC Chemokine Stromal Cell-derived Factor-1. <i>Journal of Biological Chemistry</i> , 2001, 276, 43503-43508.	1.6	576
2	The TIMP2 Membrane Type 1 Metalloproteinase α -Receptor β Regulates the Concentration and Efficient Activation of Progelatinase A. <i>Journal of Biological Chemistry</i> , 1998, 273, 871-880.	1.6	524
3	The Soluble Catalytic Domain of Membrane Type 1 Matrix Metalloproteinase Cleaves the Propeptide of Progelatinase A and Initiates Autoproteolytic Activation. <i>Journal of Biological Chemistry</i> , 1996, 271, 17119-17123.	1.6	474
4	HIV-induced metalloproteinase processing of the chemokine stromal cell derived factor-1 causes neurodegeneration. <i>Nature Neuroscience</i> , 2003, 6, 1064-1071.	7.1	295
5	Multiplex N-terminome Analysis of MMP-2 and MMP-9 Substrate Degradomes by iTRAQ-TAILS Quantitative Proteomics. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 894-911.	2.5	240
6	Matrix metalloproteinase proteomics: substrates, targets, and therapy. <i>Current Opinion in Cell Biology</i> , 2009, 21, 645-653.	2.6	239
7	A new transcriptional role for matrix metalloproteinase-12 in antiviral immunity. <i>Nature Medicine</i> , 2014, 20, 493-502.	15.2	218
8	Identification of Candidate Angiogenic Inhibitors Processed by Matrix Metalloproteinase 2 (MMP-2) in Cell-Based Proteomic Screens: Disruption of Vascular Endothelial Growth Factor (VEGF)/Heparin Affin Regulatory Peptide (Pleiotrophin) and VEGF/Connective Tissue Growth Factor Angiogenic Inhibitory Complexes by MMP-2 Proteolysis. <i>Molecular and Cellular Biology</i> , 2007, 27, 8454-8465.	1.1	200
9	Updated Biological Roles for Matrix Metalloproteinases and New α -Intracellular β -Substrates Revealed by Degradomics. <i>Biochemistry</i> , 2009, 48, 10830-10845.	1.2	195
10	Active site specificity profiling of the matrix metalloproteinase family: Proteomic identification of 4300 cleavage sites by nine MMPs explored with structural and synthetic peptide cleavage analyses. <i>Matrix Biology</i> , 2016, 49, 37-60.	1.5	177
11	Cellular Activation of MMP-2 (Gelatinase A) by MT2-MMP Occurs via a TIMP-2-independent Pathway. <i>Journal of Biological Chemistry</i> , 2001, 276, 47402-47410.	1.6	156
12	Pharmacoproteomics of a Metalloproteinase Hydroxamate Inhibitor in Breast Cancer Cells: Dynamics of Membrane Type 1 Matrix Metalloproteinase-Mediated Membrane Protein Shedding. <i>Molecular and Cellular Biology</i> , 2008, 28, 4896-4914.	1.1	149
13	Characterization of the Distinct Collagen Binding, Helicase and Cleavage Mechanisms of Matrix Metalloproteinase 2 and 14 (Gelatinase A and MT1-MMP). <i>Journal of Biological Chemistry</i> , 2004, 279, 43336-43344.	1.6	146
14	Membrane-Type-2 Matrix Metalloproteinase Can Initiate the Processing of Progelatinase A and is Regulated by the Tissue Inhibitors of Metalloproteinases. <i>FEBS Journal</i> , 1997, 244, 653-657.	0.2	141
15	Metadegradomics. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 1925-1951.	2.5	134
16	Proteomic identification of multitasking proteins in unexpected locations complicates drug targeting. <i>Nature Reviews Drug Discovery</i> , 2009, 8, 935-948.	21.5	127
17	Collagen Binding Properties of the Membrane Type-1 Matrix Metalloproteinase (MT1-MMP) Hemopexin C Domain. <i>Journal of Biological Chemistry</i> , 2002, 277, 39005-39014.	1.6	123
18	New intracellular activities of matrix metalloproteinases shine in the moonlight. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 2043-2055.	1.9	122

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19	Aging-associated modifications of collagen affect its degradation by matrix metalloproteinases. <i>Matrix Biology</i> , 2018, 65, 30-44.	1.5	109
20	Human Tissue Inhibitor of Metalloproteinases 3 Interacts with Both the N- and C-terminal Domains of Gelatinases A and B. <i>Journal of Biological Chemistry</i> , 1999, 274, 10846-10851.	1.6	103
21	Proteolytic processing of SDF-1 α reveals a change in receptor specificity mediating HIV-associated neurodegeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19182-19187.	3.3	97
22	Macrophage Matrix Metalloproteinase-12 Dampens Inflammation and Neutrophil Influx in Arthritis. <i>Cell Reports</i> , 2014, 9, 618-632.	2.9	93
23	The Specificity of TIMP-2 for Matrix Metalloproteinases Can Be Modified by Single Amino Acid Mutations. <i>Journal of Biological Chemistry</i> , 1999, 274, 20391-20396.	1.6	73
24	The Role of MMP8 in Cancer: A Systematic Review. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4506.	1.8	69
25	A Statistics-based Platform for Quantitative N-terminome Analysis and Identification of Protease Cleavage Products. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 912-927.	2.5	68
26	TAILS N-Terminomics and Proteomics Show Protein Degradation Dominates over Proteolytic Processing by Cathepsins in Pancreatic Tumors. <i>Cell Reports</i> , 2016, 16, 1762-1773.	2.9	66
27	Dissecting the Role of Matrix Metalloproteinases (MMP) and Integrin $\alpha_3\beta_1$ in Angiogenesis In vitro: Absence of Hemopexin C Domain Bioactivity, but Membrane-Type 1-MMP and $\alpha_3\beta_1$ Are Critical. <i>Cancer Research</i> , 2005, 65, 9377-9387.	0.4	65
28	Mechanistic insights into COVID-19 by global analysis of the SARS-CoV-2 3CLpro substrate degradome. <i>Cell Reports</i> , 2021, 37, 109892.	2.9	60
29	Protease Yoga: Extreme Flexibility of a Matrix Metalloproteinase. <i>Structure</i> , 2007, 15, 1159-1161.	1.6	57
30	Mannose-binding Lectin (MBL) Mutants Are Susceptible to Matrix Metalloproteinase Proteolysis. <i>Journal of Biological Chemistry</i> , 2002, 277, 17511-17519.	1.6	45
31	The Canonical Methionine 392 of Matrix Metalloproteinase 2 (Gelatinase A) Is Not Required for Catalytic Efficiency or Structural Integrity. <i>Journal of Biological Chemistry</i> , 2004, 279, 15615-15620.	1.6	43
32	Matrix metalloproteinase processing of signaling molecules to regulate inflammation. <i>Periodontology</i> 2000, 2013, 63, 123-148.	6.3	42
33	Positional proteomics in the era of the human proteome project on the doorstep of precision medicine. <i>Biochimie</i> , 2016, 122, 110-118.	1.3	42
34	Utilization of a Novel Recombinant Myoglobin Fusion Protein Expression System to Characterize the Tissue Inhibitor of Metalloproteinase (TIMP)-4 and TIMP-2 C-terminal Domain and Tails by Mutagenesis. <i>Journal of Biological Chemistry</i> , 2002, 277, 48696-48707.	1.6	31
35	Degradomic and yeast 2-hybrid inactive catalytic domain substrate trapping identifies new membrane-type 1 matrix metalloproteinase (MMP14) substrates: CCN3 (Nov) and CCN5 (WISP2). <i>Matrix Biology</i> , 2017, 59, 23-38.	1.5	29
36	Identification of Cellular MMP Substrates Using Quantitative Proteomics: Isotope-Coded Affinity Tags (ICAT) and Isobaric Tags for Relative and Absolute Quantification (iTRAQ). <i>Methods in Molecular Biology</i> , 2010, 622, 451-470.	0.4	26

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37	Active site specificity profiling datasets of matrix metalloproteinases (MMPs) 1, 2, 3, 7, 8, 9, 12, 13 and 14. <i>Data in Brief</i> , 2016, 7, 299-310.	0.5	21
38	Matrix metalloproteinases inactivate the proinflammatory functions of secreted moonlighting tryptophanyl-tRNA synthetase. <i>Journal of Biological Chemistry</i> , 2019, 294, 12866-12879.	1.6	20
39	Moonlighting matrix metalloproteinase substrates: Enhancement of proinflammatory functions of extracellular tyrosyl-tRNA synthetase upon cleavage. <i>Journal of Biological Chemistry</i> , 2020, 295, 2186-2202.	1.6	17