George H Caughey

List of Publications by Year
in descending order

92 papers	5,399 citations	70961 41 h-index	82410 72 g-index
95 all docs	95 docs citations	95 times ranked	4649 citing authors

#	Article	IF	Citations
1	Mast cell tryptases and chymases in inflammation and host defense. Immunological Reviews, 2007, 217, 141-154.	2.8	361
2	Elevated basal serum tryptase identifies a multisystem disorder associated with increased TPSAB1 copy number. Nature Genetics, 2016, 48, 1564-1569.	9.4	279
3	Accumulation of intraepithelial mast cells with a unique protease phenotype in TH2-high asthma. Journal of Allergy and Clinical Immunology, 2010, 125, 1046-1053.e8.	1.5	236
4	Canine Mast Cell Adenosine Receptors: Cloning and Expression of the A₃Receptor and Evidence that Degranulation Is Mediated by the A_{2B}Receptor. Molecular Pharmacology, 1997, 52, 846-860.	1.0	193
5	Degradation of Airway Neuropeptides by Human Lung Tryptase. American Journal of Respiratory Cell and Molecular Biology, 1990, 3, 27-32.	1.4	190
6	Dipeptidyl Peptidase I Is Essential for Activation of Mast Cell Chymases, but Not Tryptases, in Mice. Journal of Biological Chemistry, 2001, 276, 18551-18556.	1.6	176
7	Thrombin and mast cell tryptase regulate guinea-pig myenteric neurons through proteinase-activated receptors-1 and â^'2. Journal of Physiology, 1999, 517, 741-756.	1.3	168
8	Angiotensin II generation by mast cell Î±- and Î²-chymases. BBA - Proteins and Proteomics, 2000, 1480, 245-257.	2.1	167
9	Dog Mast Cell Î±-Chymase Activates Progelatinase B by Cleaving the Phe88-Gln89 and Phe91-Glu92 Bonds of the Catalytic Domain. Journal of Biological Chemistry, 1997, 272, 25628-25635.	1.6	147
10	Mast Cell Proteases as Protective and Inflammatory Mediators. Advances in Experimental Medicine and Biology, 2011, 716, 212-234.	0.8	140
11	Mast cell proteases as pharmacological targets. European Journal of Pharmacology, 2016, 778, 44-55.	1.7	131
12	Tryptase genetics and anaphylaxis. Journal of Allergy and Clinical Immunology, 2006, 117, 1411-1414.	1.5	130
13	Mast cell dipeptidyl peptidase I mediates survival from sepsis. Journal of Clinical Investigation, 2004, 113, 628-634.	3.9	127
14	Characterization of Genes Encoding Known and Novel Human Mast Cell Tryptases on Chromosome 16p13.3. Journal of Biological Chemistry, 1999, 274, 3355-3362.	1.6	124
15	Characterization of Human Î³-Tryptases, Novel Members of the Chromosome 16p Mast Cell Tryptase and Prostasin Gene Families. Journal of Immunology, 2000, 164, 6566-6575.	0.4	111
16	Neutrophil histamine contributes to inflammation in mycoplasma pneumonia. Journal of Experimental Medicine, 2006, 203, 2907-2917.	4.2	89
17	Therapeutic targeting of cathepsin C: from pathophysiology to treatment. , 2018, 190, 202-236.		85
18	Molecular cloning of dog mast cell tryptase and a related protease: structural evidence of a unique mode of serine protease activation. Biochemistry, 1989, 28, 4148-4155.	1.2	82

#	Article	IF	Citations
19	Mast cell tryptase may modulate endothelial cell phenotype in healing myocardial infarcts. Journal of Pathology, 2005, 205, 102-111.	2.1	82
20	The Human Mast Cell Chymase Gene (CMA1): Mapping to the Cathepsin G/Granzyme Gene Cluster and Lineage-Restricted Expression. Genomics, 1993, 15, 614-620.	1.3	81
21	Dog mastocytoma tryptase: Affinity purification, characterization, and amino-terminal sequence. Archives of Biochemistry and Biophysics, 1987, 258, 555-563.	1.4	80
22	Mast Cell Tissue Inhibitor of Metalloproteinase-1 Is Cleaved and Inactivated Extracellularly by Î±-Chymase. Journal of Immunology, 2001, 166, 2783-2792.	0.4	79
23	Mast Cells Protect Mice from Mycoplasma Pneumonia. American Journal of Respiratory and Critical Care Medicine, 2006, 173, 219-225.	2.5	78
24	An Allosteric Anti-tryptase Antibody for the Treatment of Mast Cell-Mediated Severe Asthma. Cell, 2019, 179, 417-431.e19.	13.5	76
25	Mast cell dipeptidyl peptidase I mediates survival from sepsis. Journal of Clinical Investigation, 2004, 113, 628-634.	3.9	75
26	Mast Cell Peptidases. American Journal of Respiratory Cell and Molecular Biology, 2010, 42, 257-267.	1.4	74
27	Serine Proteinases of Mast Cell and Leukocyte Granules: A League of Their Own. American Journal of Respiratory and Critical Care Medicine, 1994, 150, S138-S142.	2.5	73
28	Tryptase's potent mitogenic effects in human airway smooth muscle cells are via nonproteolytic actions. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2002, 282, L197-L206.	1.3	73
29	Malaria-Associated<scp>l</scp>-Arginine Deficiency Induces Mast Cell-Associated Disruption to Intestinal Barrier Defenses against Nontyphoidal Salmonella Bacteremia. Infection and Immunity, 2013, 81, 3515-3526.	1.0	69
30	New developments in the genetics and activation of mast cell proteases. Molecular Immunology, 2002, 38, 1353-1357.	1.0	68
31	Prostasin, a membrane-anchored serine peptidase, regulates sodium currents in JME/CF15 cells, a cystic fibrosis airway epithelial cell line. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2004, 287, L928-L935.	1.3	68
32	Regulation of the Epithelial Na+ Channel by Peptidases. Current Topics in Developmental Biology, 2007, 78, 23-46.	1.0	65
33	Prostasin regulates epithelial monolayer function: cell-specific Gpld1-mediated secretion and functional role for GPI anchor. American Journal of Physiology - Cell Physiology, 2006, 291, C1258-C1270.	2.1	63
34	Human subjects are protected from mast cell tryptase deficiency despite frequent inheritance of loss-of-function mutations. Journal of Allergy and Clinical Immunology, 2009, 124, 1099-1105.e4.	1.5	58
35	The Î±vÎ²6 integrin modulates airway hyperresponsiveness in mice by regulating intraepithelial mast cells. Journal of Clinical Investigation, 2012, 122, 748-758.	3.9	55
36	Regulated Expression, Processing, and Secretion of Dog Mast Cell Dipeptidyl Peptidase I. Journal of Biological Chemistry, 1998, 273, 15514-15520.	1.6	53

#	Article	IF	Citations
37	Purification and characterization of dog mastocytoma chymase: identification of an octapeptide conserved in chymotryptic leukocyte proteinases. BBA - Proteins and Proteomics, 1988, 952, 142-149.	2.1	52
38	Dog mast cell chymase: molecular cloning and characterization. Biochemistry, 1990, 29, 5166-5171.	1.2	52
39	Protease Inhibitors Potentiate Smooth Muscle Relaxation Induced by Vasoactive Intestinal Peptide in Isolated Human Bronchi. American Journal of Respiratory Cell and Molecular Biology, 1990, 2, 449-452.	1.4	50
40	Dipeptidyl Peptidase I Cleaves Matrix-Associated Proteins and Is Expressed Mainly by Mast Cells in Normal Dog Airways. American Journal of Respiratory Cell and Molecular Biology, 2000, 22, 183-190.	1.4	49
41	Protease-Activated Receptor 2, Dipeptidyl Peptidase I, and Proteases Mediate Clostridium difficile Toxin A Enteritis. Gastroenterology, 2007, 132, 2422-2437.	0.6	47
42	How Immune Peptidases Change Specificity: Cathepsin G Gained Tryptic Function but Lost Efficiency during Primate Evolution. Journal of Immunology, 2010, 185, 5360-5368.	0.4	43
43	Albumin Is a Substrate of Human Chymase. Journal of Biological Chemistry, 2003, 278, 34517-34524.	1.6	42
44	Mast Cell Î± and Î² Tryptases Changed Rapidly during Primate Speciation and Evolved from Î³-Like Transmembrane Peptidases in Ancestral Vertebrates. Journal of Immunology, 2007, 179, 6072-6079.	0.4	42
45	Association of Large-Airway Lymphocytic Bronchitis with Bronchiolitis Obliterans Syndrome. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 417-423.	2.5	42
46	Î±2-Macroglobulin Capture Allows Detection of Mast Cell Chymase in Serum and Creates a Reservoir of Angiotensin II-Generating Activity. Journal of Immunology, 2009, 182, 5770-5777.	0.4	41
47	Tryptase haplotype in mastocytosis: Relationship to disease variant and diagnostic utility of total tryptase levels. Clinical Immunology, 2007, 123, 268-271.	1.4	40
48	Tryptase-Induced Mitogenesis in Airway Smooth Muscle Cells. Chest, 1995, 107, 95S-96S.	0.4	38
49	Neutrophil elastase and elastase-rich cystic fibrosis sputum degranulate human eosinophils in vitro. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1999, 276, L28-L34.	1.3	37
50	The Structure and Airway Biology of Mast Cell Proteinases. American Journal of Respiratory Cell and Molecular Biology, 1991, 4, 387-394.	1.4	33
51	Structure of Human Pro-Chymase:Â A Model for the Activating Transition of Granule-Associated Proteasesâ€‚â€¡. Biochemistry, 2003, 42, 2616-2624.	1.2	33
52	Mast Cell and Neutrophil Peptidases Attack an Inactivation Segment in Hepatocyte Growth Factor to Generate NK4-like Antagonists. Journal of Biological Chemistry, 2006, 281, 1489-1494.	1.6	31
53	Clinical relevance of inherited genetic differences in human tryptases. Annals of Allergy, Asthma and Immunology, 2021, 127, 638-647.	0.5	30
54	Matrix metalloproteinase-2 and -9 expression increases in Mycoplasma-infected airways but is not required for microvascular remodeling. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2004, 287, L307-L317.	1.3	29

#	Article	IF	Citations
55	Chimerism, point mutation, and truncation dramatically transformed mast cell Î´-tryptases during primate evolution. Journal of Allergy and Clinical Immunology, 2008, 121, 1262-1268.	1.5	27
56	Mast Cell Cathepsins C and S Control Levels of Carboxypeptidase A and the Chymase, Mouse Mast Cell Protease 5. Biological Chemistry, 2003, 384, 1527-31.	1.2	26
57	Mouse Prostasin Gene Structure, Promoter Analysis, and Restricted Expression in Lung and Kidney. American Journal of Respiratory Cell and Molecular Biology, 2004, 30, 519-529.	1.4	26
58	Structure and Activity of Human Pancreasin, a Novel Tryptic Serine Peptidase Expressed Primarily by the Pancreas. Journal of Biological Chemistry, 2003, 278, 3363-3371.	1.6	25
59	Mastin is a gelatinolytic mast cell peptidase resembling a mini-proteasome. Archives of Biochemistry and Biophysics, 2005, 435, 311-322.	1.4	25
60	Guinea Pig Chymase Is Leucine-specific. Journal of Biological Chemistry, 2008, 283, 13943-13951.	1.6	22
61	Mast Cell Tryptase Activates Extracellular-Regulated Kinases (p44/p42) in Airway Smooth-Muscle Cells. American Journal of Respiratory Cell and Molecular Biology, 2001, 24, 146-154.	1.4	21
62	Lys40 but not Arg143 influences selectivity of angiotensin conversion by human Î±-chymase. BBA - Proteins and Proteomics, 2002, 1596, 346-356.	2.1	21
63	Cathepsins L and S are not required for activation of dipeptidyl peptidase I (cathepsin C) in mice. Biological Chemistry, 2006, 387, 1143-6.	1.2	21
64	Purification and Characterization of Dog Mast Cell Protease-3, an Oligomeric Relative of Tryptases. Journal of Biological Chemistry, 1995, 270, 13164-13170.	1.6	20
65	Cathepsin L Protects Mice from Mycoplasmal Infection and Is Essential for Airway Lymphangiogenesis. American Journal of Respiratory Cell and Molecular Biology, 2013, 49, 437-444.	1.4	20
66	Strain-dependent induction of neutrophil histamine production and cell death byPseudomonas aeruginosa. Journal of Leukocyte Biology, 2012, 91, 275-284.	1.5	19
67	Parasitic Infection Improves Survival from Septic Peritonitis by Enhancing Mast Cell Responses to Bacteria in Mice. PLoS ONE, 2011, 6, e27564.	1.1	18
68	Divergent Inhibitor Susceptibility among Airway Lumen-Accessible Tryptic Proteases. PLoS ONE, 2015, 10, e0141169.	1.1	18
69	Transcript Signatures of Lymphocytic Bronchitis in Lung Allograft Biopsy Specimens. Journal of Heart and Lung Transplantation, 2005, 24, 1055-1066.	0.3	17
70	Dog mastocytoma proteoglycans: occurrence of heparin and oversulfated chondroitin sulfates, containing trisulfated disaccharides, in three cell lines. Biochimica Et Biophysica Acta - General Subjects, 1988, 967, 416-428.	1.1	16
71	Activity and inhibition of prostasin and matriptase on apical and basolateral surfaces of human airway epithelial cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2012, 303, L97-L106.	1.3	16
72	A Pulmonary Perspective on GASPIDs: Granule-Associated Serine Peptidases of Immune Defense. Current Respiratory Medicine Reviews, 2006, 2, 263-277.	0.1	15

#	Article	IF	Citations
73	Donor-Reactive Regulatory T Cell Frequency Increases During Acute Cellular Rejection of Lung Allografts. Transplantation, 2016, 100, 2090-2098.	0.5	15
74	Mast cell exocytosis: Evidence that granule proteoglycan processing is not coupled to degranulation. Biochemical and Biophysical Research Communications, 1991, 179, 140-146.	1.0	13
75	Mast Cells Present Protrusions into Blood Vessels upon Tracheal Allergen Challenge in Mice. PLoS ONE, 2015, 10, e0118513.	1.1	12
76	Mast cells in a murine lung ischemia-reperfusion model of primary graft dysfunction. Respiratory Research, 2014, 15, 95.	1.4	9
77	Cathepsin L Helps to Defend Mice from Infection with Influenza A. PLoS ONE, 2016, 11, e0164501.	1.1	9
78	Dipeptidyl peptidase I controls survival from Klebsiella pneumoniae lung infection by processing surfactant protein D. Biochemical and Biophysical Research Communications, 2014, 450, 818-823.	1.0	8
79	Roles of Mast Cell Proteases in Airways. Chest, 1989, 95, 1328-1330.	0.4	7
80	Building A Better Heparin. American Journal of Respiratory Cell and Molecular Biology, 2003, 28, 129-132.	1.4	6
81	Mutational Tail Loss Is an Evolutionary Mechanism for Liberating Marapsins and Other Type I Serine Proteases from Transmembrane Anchors. Journal of Biological Chemistry, 2013, 288, 10588-10598.	1.6	5
82	Chymases. , 2013, , 2675-2683.		2
83	Regulation of Hepatocyte Growth Factor in Mice with Pneumonia by Peptidases and Trans-Alveolar Flux. PLoS ONE, 2015, 10, e0125797.	1.1	1
84	Mast Cells and Basophils. , 2002, , 91-97.		1
85	Mast Cells and Basophils. , 2009, , 111-120.		0
86	Human Î±-, Î²- and Î´-Tryptases. , 2013, , 2683-2693.		0
87	Protease Mediators of Anaphylaxis. , 2011, , 89-105.		0
88	Î³-Tryptase. , 2013, , 2694-2697.		0
89	Mastins. , 2013, , 2706-2709.		0
90	Marapsin. , 2013, , 2709-2711.		0

#	Article	IF	Citations
91	A Shocking Diagnosis. Journal of Hospital Medicine, 2017, 12, 104-108.	0.7	0
92	An Allosteric Anti-Tryptase Antibody for the Treatment of Mast Cell-Mediated Severe Asthma. SSRN Electronic Journal, 0, , .	0.4	0