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	Clinical relevance of inherited genetic differences in human tryptases. Annals of Allergy, Asthma and Immunology, 2021, 127, 638-647.	0.5	30
2	An Allosteric Anti-tryptase Antibody for the Treatment of Mast Cell-Mediated Severe Asthma. Cell, 2019, 179, 417-431.e19.	13.5	76
3	Therapeutic targeting of cathepsin C: from pathophysiology to treatment. , 2018, 190, 202-236.		85
4	A Shocking Diagnosis. Journal of Hospital Medicine, 2017, 12, 104-108.	0.7	0
5	Donor-Reactive Regulatory T Cell Frequency Increases During Acute Cellular Rejection of Lung Allografts. Transplantation, 2016, 100, 2090-2098.	0.5	15
6	Elevated basal serum tryptase identifies a multisystem disorder associated with increased TPSAB1 copy number. Nature Genetics, 2016, 48, 1564-1569.	9.4	279
7	Mast cell proteases as pharmacological targets. European Journal of Pharmacology, 2016, 778, 44-55.	1.7	131
8	Cathepsin L Helps to Defend Mice from Infection with Influenza A. PLoS ONE, 2016, 11, e0164501.	1.1	9
9	Mast Cells Present Protrusions into Blood Vessels upon Tracheal Allergen Challenge in Mice. PLoS ONE, 2015, 10, e0118513.	1.1	12
10	Regulation of Hepatocyte Growth Factor in Mice with Pneumonia by Peptidases and Trans-Alveolar Flux. PLoS ONE, 2015, 10, e0125797.	1.1	1
11	Divergent Inhibitor Susceptibility among Airway Lumen-Accessible Tryptic Proteases. PLoS ONE, 2015, 10, e0141169.	1.1	18
12	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
13	Mast cells in a murine lung ischemia-reperfusion model of primary graft dysfunction. Respiratory Research, 2014, 15, 95.	1.4	9
14	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
15	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
16	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
17	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
18	Human Î±-, Î²- and Î´-Tryptases. , 2013, , 2683-2693.		0

#	Article	IF	Citations
19	Chymases. , 2013, , 2675-2683.		2
20	Î³-Tryptase. , 2013, , 2694-2697.		0
21	Mastins. , 2013, , 2706-2709.		0
22	Marapsin. , 2013, , 2709-2711.		0
23	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
24	Strain-dependent induction of neutrophil histamine production and cell death byPseudomonas aeruginosa. Journal of Leukocyte Biology, 2012, 91, 275-284.	1.5	19
25	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
26	Mast Cell Proteases as Protective and Inflammatory Mediators. Advances in Experimental Medicine and Biology, 2011, 716, 212-234.	0.8	140
27	Parasitic Infection Improves Survival from Septic Peritonitis by Enhancing Mast Cell Responses to Bacteria in Mice. PLoS ONE, 2011, 6, e27564.	1.1	18
28	Protease Mediators of Anaphylaxis. , 2011, , 89-105.		0
29	Mast Cell Peptidases. American Journal of Respiratory Cell and Molecular Biology, 2010, 42, 257-267.	1.4	74
30	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
31	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
32	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
33	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
34	Mast Cells and Basophils. , 2009, , 111-120.		0
35	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
36	Guinea Pig Chymase Is Leucine-specific. Journal of Biological Chemistry, 2008, 283, 13943-13951.	1.6	22

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37	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
38	Regulation of the Epithelial Na+ Channel by Peptidases. Current Topics in Developmental Biology, 2007, 78, 23-46.	1.0	65
39	Protease-Activated Receptor 2, Dipeptidyl Peptidase I, and Proteases Mediate Clostridium difficile Toxin A Enteritis. Gastroenterology, 2007, 132, 2422-2437.	0.6	47
40	Mast cell tryptases and chymases in inflammation and host defense. Immunological Reviews, 2007, 217, 141-154.	2.8	361
41	Tryptase haplotype in mastocytosis: Relationship to disease variant and diagnostic utility of total tryptase levels. Clinical Immunology, 2007, 123, 268-271.	1.4	40
42	Tryptase genetics and anaphylaxis. Journal of Allergy and Clinical Immunology, 2006, 117, 1411-1414.	1.5	130
43	A Pulmonary Perspective on GASPIDs: Granule-Associated Serine Peptidases of Immune Defense. Current Respiratory Medicine Reviews, 2006, 2, 263-277.	0.1	15
44	Mast Cells Protect Mice from Mycoplasma Pneumonia. American Journal of Respiratory and Critical Care Medicine, 2006, 173, 219-225.	2.5	78
45	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
46	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
47	Neutrophil histamine contributes to inflammation in mycoplasma pneumonia. Journal of Experimental Medicine, 2006, 203, 2907-2917.	4.2	89
48	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
49	Mast cell tryptase may modulate endothelial cell phenotype in healing myocardial infarcts. Journal of Pathology, 2005, 205, 102-111.	2.1	82
50	Transcript Signatures of Lymphocytic Bronchitis in Lung Allograft Biopsy Specimens. Journal of Heart and Lung Transplantation, 2005, 24, 1055-1066.	0.3	17
51	Mastin is a gelatinolytic mast cell peptidase resembling a mini-proteasome. Archives of Biochemistry and Biophysics, 2005, 435, 311-322.	1.4	25
52	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
53	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
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

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55	Mast cell dipeptidyl peptidase I mediates survival from sepsis. Journal of Clinical Investigation, 2004, 113, 628-634.	3.9	75
56	Mast cell dipeptidyl peptidase I mediates survival from sepsis. Journal of Clinical Investigation, 2004, 113, 628-634.	3.9	127
57	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
58	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
59	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
60	Albumin Is a Substrate of Human Chymase. Journal of Biological Chemistry, 2003, 278, 34517-34524.	1.6	42
61	Building A Better Heparin. American Journal of Respiratory Cell and Molecular Biology, 2003, 28, 129-132.	1.4	6
62	New developments in the genetics and activation of mast cell proteases. Molecular Immunology, 2002, 38, 1353-1357.	1.0	68
63	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
64	Lys40 but not Arg143 influences selectivity of angiotensin conversion by human Î±-chymase. BBA - Proteins and Proteomics, 2002, 1596, 346-356.	2.1	21
65	Mast Cells and Basophils. , 2002, , 91-97.		1
66	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
67	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
68	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
69	Angiotensin II generation by mast cell Î±- and Î²-chymases. BBA - Proteins and Proteomics, 2000, 1480, 245-257.	2.1	167
70	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
71	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
72	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

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73	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
74	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
75	Regulated Expression, Processing, and Secretion of Dog Mast Cell Dipeptidyl Peptidase I. Journal of Biological Chemistry, 1998, 273, 15514-15520.	1.6	53
76	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
77	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
78	Tryptase-Induced Mitogenesis in Airway Smooth Muscle Cells. Chest, 1995, 107, 95S-96S.	0.4	38
79	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
80	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
81	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
82	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
83	The Structure and Airway Biology of Mast Cell Proteinases. American Journal of Respiratory Cell and Molecular Biology, 1991, 4, 387-394.	1.4	33
84	Degradation of Airway Neuropeptides by Human Lung Tryptase. American Journal of Respiratory Cell and Molecular Biology, 1990, 3, 27-32.	1.4	190
85	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
86	Dog mast cell chymase: molecular cloning and characterization. Biochemistry, 1990, 29, 5166-5171.	1.2	52
87	Roles of Mast Cell Proteases in Airways. Chest, 1989, 95, 1328-1330.	0.4	7
88	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
89	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
90	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

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91	Dog mastocytoma tryptase: Affinity purification, characterization, and amino-terminal sequence. Archives of Biochemistry and Biophysics, 1987, 258, 555-563.	1.4	80
92	An Allosteric Anti-Tryptase Antibody for the Treatment of Mast Cell-Mediated Severe Asthma. SSRN Electronic Journal, 0, , .	0.4	0