Gilles Lalmanach

List of Publications by Year
in descending order

107	3,297	117625	182427
papers	citations	34 h-index	51 g-index

114	114	114	3877
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	GNS561, a clinical-stage PPT1 inhibitor, is efficient against hepatocellular carcinoma via modulation of lysosomal functions. Autophagy, 2022, 18, 678-694.	9.1	30
2	Modulation of the expression and activity of cathepsin S in reconstructed human skin by neohesperidin dihydrochalcone. Matrix Biology, 2022, 107, 97-112.	3.6	2
3	Cathepsin V: Molecular characteristics and significance in health and disease. Molecular Aspects of Medicine, 2022, 88, 101086.	6.4	15
4	In silico and in vitro mapping of specificity patterns of glycosaminoglycans towards cysteine cathepsins B, L, K, S and V. Journal of Molecular Graphics and Modelling, 2022, 113, 108153.	2.4	8
5	Binding of heparan sulfate to human cystatin C modulates inhibition of cathepsin L: Putative consequences in mucopolysaccharidosis. Carbohydrate Polymers, 2022, 293, 119734.	10.2	3
6	The abnormal accumulation of heparan sulfate in patients with mucopolysaccharidosis prevents the elastolytic activity of cathepsin V. Carbohydrate Polymers, 2021, 253, 117261.	10.2	13
7	Cystatin M/E (Cystatin 6): A Janus-Faced Cysteine Protease Inhibitor with Both Tumor-Suppressing and Tumor-Promoting Functions. Cancers, 2021, 13, 1877.	3.7	13
8	Monitoring Human Neutrophil Activation by a Proteinase 3 Near-Infrared Fluorescence Substrate-Based Probe. Bioconjugate Chemistry, 2021, 32, 1782-1790.	3.6	2
9	Upregulation of gut cathepsin L during Eimeria tenella infection. Research in Veterinary Science, 2021, 140, 109-116.	1.9	2
10	Rat cathepsin K: Enzymatic specificity and regulation of its collagenolytic activity. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140318.	2.3	9
11	GNS561 acts as a potent anti-fibrotic and pro-fibrolytic agent in liver fibrosis through TGF-Î²1 inhibition. Therapeutic Advances in Chronic Disease, 2020, 11, 204062232094204.	2.5	9
12	Regulation of the Proteolytic Activity of Cysteine Cathepsins by Oxidants. International Journal of Molecular Sciences, 2020, 21, 1944.	4.1	17
13	Oxidation of cathepsin S by major chemicals of cigarette smoke. Free Radical Biology and Medicine, 2020, 150, 53-65.	2.9	12
14	Processing and Maturation of Cathepsin C Zymogen: A Biochemical and Molecular Modeling Analysis. International Journal of Molecular Sciences, 2019, 20, 4747.	4.1	12
15	Cigarette smoke induces overexpression of active human cathepsin S in lungs from current smokers with or without COPD. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L625-L638.	2.9	30
16	Curcumin inhibits the TGF-Î²1-dependent differentiation of lung fibroblasts via PPARÎ³-driven upregulation of cathepsins B and L. Scientific Reports, 2019, 9, 491.	3.3	35
17	Imaging of extracellular cathepsin S activity by a selective near infrared fluorescence substrate-based probe. Biochimie, 2019, 166, 84-93.	2.6	10
18	Whatâ€™s up in the proteolysis landscape? A lively blend of classical concepts and pioneering innovations. Biochimie, 2019, 166, 1-3.	2.6	0

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19	Substrate-derived triazolo- and azapeptides as inhibitors of cathepsins K and S. European Journal of Medicinal Chemistry, 2018, 144, 201-210.	5.5	17
20	Therapeutic targeting of cathepsin C: from pathophysiology to treatment. , 2018, 190, 202-236.		85
21	Selective inhibition of human cathepsin S by 2,4,6-trisubstituted 1,3,5-triazine analogs. Bioorganic and Medicinal Chemistry, 2018, 26, 4310-4319.	3.0	11
22	Deciphering molecular mechanisms of cathepsin S resistance to major chemical oxidants of cigarette smoke. , 2018, , .		0
23	Cigarette smoke induces overexpression of cathepsin S in active smokers with and without COPD. , 2018, , .		1
24	Protean proteases: at the cutting edgeÂofÂlung diseases. European Respiratory Journal, 2017, 49, 1501200.	6.7	49
25	Discordance in cathepsin B and cystatin C expressions in bronchoalveolar fluids between murine bleomycin-induced fibrosis and human idiopathic fibrosis. Respiratory Research, 2016, 17, 118.	3.6	11
26	The Unusual Resistance of Avian Defensin AvBD7 to Proteolytic Enzymes Preserves Its Antibacterial Activity. PLoS ONE, 2016, 11, e0161573.	2.5	7
27	Straightforward synthesis of 2,4,6-trisubstituted 1,3,5-triazine compounds targeting cysteine cathepsins K and S. European Journal of Medicinal Chemistry, 2016, 121, 12-20.	5.5	17
28	Neutrophilic Cathepsin C Is Maturated by a Multistep Proteolytic Process and Secreted by Activated Cells during Inflammatory Lung Diseases. Journal of Biological Chemistry, 2016, 291, 8486-8499.	3.4	45
29	Proteases in the limelight: Both ordinary digestive enzymes and smart signaling pathway regulators. Biochimie, 2016, 122, 1-4.	2.6	0
30	Antimicrobial proteins and peptides in human lung diseases: A friend and foe partnership with host proteases. Biochimie, 2016, 122, 151-168.	2.6	49
31	Cysteine cathepsins and cystatins: from ancillary tasks to prominent status in lung diseases. Biological Chemistry, 2015, 396, 111-130.	2.5	40
32	Active site labeling of cysteine cathepsins by a straightforward diazomethylketone probe derived from the N-terminus of human cystatin C. Biochemical and Biophysical Research Communications, 2015, 460, 250-254.	2.1	9
33	Antimicrobial Peptide LL-37 Is Both a Substrate of Cathepsins S and K and a Selective Inhibitor of Cathepsin L. Biochemistry, 2015, 54, 2785-2798.	2.5	38
34	Regulation of TGF-Î²1-driven Differentiation of Human Lung Fibroblasts. Journal of Biological Chemistry, 2014, 289, 16239-16251.	3.4	60
35	Human cystatin <scp>C</scp>: <scp>A</scp> new biomarker of idiopathic pulmonary fibrosis?. Proteomics - Clinical Applications, 2014, 8, 447-453.	1.6	15
36	Aminopeptidase N1 (EtAPN1), an M1 Metalloprotease of the Apicomplexan Parasite Eimeria tenella, Participates in Parasite Development. Eukaryotic Cell, 2014, 13, 884-895.	3.4	19

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37	Differential expression of cathepsins K, S and V between young and aged Caucasian women skin epidermis. Matrix Biology, 2014, 33, 41-46.	3.6	19
38	Pro-angiogenic effect of human kallikrein-related peptidase 12 (KLK12) in lung endothelial cells does not depend on kinin-mediated activation of B2 receptor. Biological Chemistry, 2013, 394, 385-391.	2.5	15
39	Binding of Chondroitin 4-Sulfate to Cathepsin S Regulates Its Enzymatic Activity. Biochemistry, 2013, 52, 6487-6498.	2.5	63
40	Specific cleavage of the lung surfactant protein A by human cathepsin S may impair its antibacterial properties. International Journal of Biochemistry and Cell Biology, 2013, 45, 1701-1709.	2.8	33
41	Proteolysis of cystatin C by cathepsin D in the breast cancer microenvironment. FASEB Journal, 2012, 26, 5172-5181.	0.5	58
42	Eimeripain, a Cathepsin B-Like Cysteine Protease, Expressed throughout Sporulation of the Apicomplexan Parasite Eimeria tenella. PLoS ONE, 2012, 7, e31914.	2.5	24
43	Cleavage of Nidogen-1 by Cathepsin S Impairs Its Binding to Basement Membrane Partners. PLoS ONE, 2012, 7, e43494.	2.5	37
44	A selective reversible azapeptide inhibitor of human neutrophil proteinase 3 derived from a high affinity FRET substrate. Biochemical Pharmacology, 2012, 83, 788-796.	4.4	21
45	Synthesis of a Biologically Active Triazoleâ€Containing Analogue of Cystatinâ€...A Through Successive Peptidomimetic Alkyneâ€“Azide Ligations. Angewandte Chemie - International Edition, 2012, 51, 718-722.	13.8	75
46	Cysteine Cathepsins: Markers and Therapy Targets in Lung Disorders. Clinical Reviews in Bone and Mineral Metabolism, 2011, 9, 148-161.	0.8	17
47	Cysteine Cathepsins S and L Modulate Anti-angiogenic Activities of Human Endostatin. Journal of Biological Chemistry, 2011, 286, 37158-37167.	3.4	58
48	Human Cysteine Cathepsins Are Not Reliable Markers of Infection by Pseudomonas aeruginosa in Cystic Fibrosis. PLoS ONE, 2011, 6, e25577.	2.5	21
49	The Occluding Loop of Cathepsin B Prevents Its Effective Inhibition by Human Kininogens. Journal of Molecular Biology, 2010, 400, 1022-1035.	4.2	20
50	Kininogens: More than cysteine protease inhibitors and kinin precursors. Biochimie, 2010, 92, 1568-1579.	2.6	85
51	Yin and Yang in the proteolytic landscape. Biochimie, 2010, 92, v-vii.	2.6	0
52	Voltage-gated Sodium Channel Activity Promotes Cysteine Cathepsin-dependent Invasiveness and Colony Growth of Human Cancer Cells. Journal of Biological Chemistry, 2009, 284, 8680-8691.	3.4	172
53	Identification of parasite-responsive cysteine proteases in Manduca sexta. Biological Chemistry, 2009, 390, 493-502.	2.5	31
54	Inhibition of cathepsins B and L by kininogens: a molecular investigation. Journal of Cystic Fibrosis, 2009, 8, S57.	0.7	0

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55	Extracellular catalase activity protects cysteine cathepsins from inactivation by hydrogen peroxide. FEBS Letters, 2008, 582, 1307-1312.	2.8	18
56	Lung cysteine cathepsins: Intruders or unorthodox contributors to the kallikreinâ€“kinin system?. International Journal of Biochemistry and Cell Biology, 2008, 40, 1079-1094.	2.8	27
57	Biochemical properties and regulation of cathepsin K activity. Biochimie, 2008, 90, 208-226.	2.6	147
58	Proteolytic enzymes: From structures to transport pathways. Biochimie, 2008, 90, 191-193.	2.6	2
59	Regulation of cathepsin K activity by hydrogen peroxide. Biological Chemistry, 2008, 389, 1123-1126.	2.5	30
60	Regulation of cathepsin K activity by hydrogen peroxide. Biological Chemistry, 2008, .	2.5	0
61	Selective Inhibition of the Collagenase Activity of Cathepsin K. Journal of Biological Chemistry, 2007, 282, 16492-16501.	3.4	23
62	Modulation of hypotensive effects of kinins by cathepsin K. Archives of Biochemistry and Biophysics, 2007, 459, 129-136.	3.0	22
63	Evaluation of a peptide ELISA for the detection of rituximab in serum. Journal of Immunological Methods, 2007, 325, 127-139.	1.4	65
64	The S2 subsites of cathepsins K and L and their contribution to collagen degradation. Protein Science, 2007, 16, 662-670.	7.6	58
65	068 Modulation of hypotensive effects of bradykinin by cathepsin K. Revue Des Maladies Respiratoires, 2006, 23, 548.	1.7	0
66	069 RÃ©gulation de lâ€™activitÃ© protÃ©olytique des cathepsines Ã cystÃ©ine extracellulaires par le peroxyde dâ€™hydrogÃ¨ne : rÃ1e protecteur de la catalase. Revue Des Maladies Respiratoires, 2006, 23, 548.	1.7	0
67	Active cathepsins B, H, K, L and S in human inflammatory bronchoalveolar lavage fluids. Biology of the Cell, 2006, 98, 15-22.	2.0	45
68	Cysteine cathepsins in human silicotic bronchoalveolar lavage fluids. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2006, 1762, 351-356.	3.8	32
69	Cysteine cathepsins and caspases in silicosis. Biological Chemistry, 2006, 387, 863-870.	2.5	33
70	Degradation of apolipoprotein B-100 by lysosomal cysteine cathepsins. Biological Chemistry, 2006, 387, 1295-303.	2.5	21
71	A Virus Essential for Insect Host-Parasite Interactions Encodes Cystatins. Journal of Virology, 2005, 79, 9765-9776.	3.4	39
72	Labelling of four distinct trophozoite falcipains of Plasmodium falciparum by a cystatin-derived probe. Biological Chemistry, 2005, 386, 401-6.	2.5	7

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73	Inhibition of a Cathepsin L-Like Cysteine Protease by a Chimeric Propeptide-Derived Inhibitorâ€. Biochemistry, 2005, 44, 10486-10493.	2.5	12
74	Cathepsin K: a cysteine protease with unique kinin-degrading properties. Biochemical Journal, 2004, 383, 501-506.	3.7	37
75	Kininogen-derived peptides for investigating the putative vasoactive properties of human cathepsinsâ€ƒK and L. FEBS Journal, 2003, 270, 171-178.	0.2	25
76	Procongopain from Trypanosoma congolense Is Processed at Basic pH: An Unusual Feature among Cathepsin L-Like Cysteine Proteases. Biological Chemistry, 2003, 384, 921-927.	2.5	14
77	Probing cathepsin K activity with a selective substrate spanning its active site. Biochemical Journal, 2003, 375, 307-312.	3.7	51
78	CA-074, But Not Its Methyl Ester CA-074Me, Is a Selective Inhibitor of Cathepsin B within Living Cells. Biological Chemistry, 2002, 383, 1305-8.	2.5	142
79	Pregnancy-Associated Plasma Protein-A Is Involved in Insulin-Like Growth Factor Binding Protein-2 (IGFBP-2) Proteolytic Degradation in Bovine and Porcine Preovulatory Follicles: Identification of Cleavage Site and Characterization of IGFBP-2 Degradation. Biology of Reproduction, 2002, 68, 77-86.	2.7	132
80	Congopain from Trypanosoma congolense: Drug Target and Vaccine Candidate. Biological Chemistry, 2002, 383, 739-49.	2.5	60
81	Reversible inhibition of cathepsin L-like proteases by 4-mer pseudopeptides. FEBS Letters, 2001, 507, 362-366.	2.8	8
82	Subsite specificity of trypanosomal cathepsin L-like cysteine proteases. FEBS Journal, 2001, 268, 2733-2741.	0.2	31
83	Cysteine protease isoforms from Trypanosoma cruzi, cruzipain 2 and cruzain, present different substrate preference and susceptibility to inhibitors. Molecular and Biochemical Parasitology, 2001, 114, 41-52.	1.1	74
84	Recombinant Protease Inhibitors in Plants (Biotechnology Intelligence Unit 3). Trends in Biotechnology, 2001, 19, 121-122.	9.3	0
85	Immunisation of cattle with cysteine proteinases of Trypanosoma congolense: targetting the disease rather than the parasite. International Journal for Parasitology, 2001, 31, 1429-1433.	3.1	62
86	Functional expression of the catalytic domains of two cysteine proteinases from Trypanosoma congolense. International Journal for Parasitology, 2001, 31, 1435-1440.	3.1	22
87	Cathepsin L, But Not Cathepsin B, Is a Potential Kininogenase. Biological Chemistry, 2001, 382, 811-816.	2.5	19
88	Cathepsin L, But Not Cathepsin B, Is a Potential Kininogenase. Biological Chemistry, 2001, 382, 811-5.	2.5	18
89	Altered expression of cruzipain and a cathepsin B-like target in a Trypanosoma cruzi cell line displaying resistance to synthetic inhibitors of cysteine-proteinases. Molecular and Biochemical Parasitology, 2000, 109, 47-59.	1.1	41
90	Chicken cystatin stimulates nitric oxide release from interferon-Î³-activated mouse peritoneal macrophages via cytokine synthesis. FEBS Journal, 1999, 266, 1111-1117.	0.2	68

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91	Discrimination of cruzipain, the major cysteine proteinase ofTrypanosoma cruzi, and mammalian cathepsinsâ€ƒB and L, by a pH-inducible fluorogenic substrate of trypanosomal cysteine proteinases. FEBS Journal, 1999, 259, 275-280.	0.2	19
92	Revisiting the S2 specificity of papain by structural analogs of Phe. FEBS Letters, 1999, 445, 311-314.	2.8	15
93	Inhibition of Trypanosomal Cysteine Proteinases by Their Propeptides. Journal of Biological Chemistry, 1998, 273, 25112-25116.	3.4	35
94	A comparison of the enzymatic properties of the major cysteine proteinases from Trypanosoma congolense and Trypanosoma cruzi. Molecular and Biochemical Parasitology, 1997, 88, 85-94.	1.1	38
95	Inhibition of cathepsin B by its propeptide: Use of overlapping peptides to identify a critical segment. FEBS Letters, 1996, 392, 233-236.	2.8	38
96	Investigation of the substrate specificity of cruzipain, the major cysteine proteinase of Trypanosoma cruzi, through the use of cystatin-derived substrates and inhibitors. Biochemical Journal, 1996, 313, 951-956.	3.7	74
97	Biotin-labelled peptidyl diazomethane inhibitors derived from the substrate-like sequence of cystatin: targeting of the active site of cruzipain, the major cysteine proteinase of Trypanosoma cruzi. Biochemical Journal, 1996, 318, 395-399.	3.7	39
98	Cystatins Up-regulate Nitric Oxide Release from Interferon-Î³- activated Mouse Peritoneal Macrophages. Journal of Biological Chemistry, 1996, 271, 28077-28081.	3.4	100
99	Conserved cystatin segments as models for designing specific substrates and inhibitors of cysteine proteinases. The Protein Journal, 1995, 14, 645-653.	1.1	19
100	The binding specificity of kininogen analogues to serine proteases related to tissue kallikrein. , 1994, , 946-947.		0
101	Interaction between cystatin-derived peptides and papain. The Protein Journal, 1993, 12, 23-31.	1.1	14
102	A New, Sensitive Fluorogenic Substrate for Papain Based on the Sequence of the Cystatin Inhibitory Site. Archives of Biochemistry and Biophysics, 1993, 306, 304-308.	3.0	25
103	Cystatin Mimicry by Synthetic Peptides. Biological Chemistry Hoppe-Seyler, 1992, 373, 465-470.	1.4	1
104	An immunochemical approach to investigating the mechanism of inhibition of cysteine proteinases by members of the cystatin superfamily. Journal of Immunological Methods, 1992, 149, 197-205.	1.4	14
105	Assignment of proton NMR resonances and conformational analysis of the K13CK cystatin-like peptide. Magnetic Resonance in Chemistry, 1992, 30, 992-995.	1.9	1
106	Discrimination between rat thiostatin (T-kininogen) and one of its cystatin-like inhibitory fragments by a monoclonal antibody, and localization of the epitope. FEBS Journal, 1991, 196, 73-78.	0.2	8
107	Simulation of the inhibitory cystatin surface by a synthetic peptide. Biochemical and Biophysical Research Communications, 1990, 167, 117-122.	2.1	8