Eli C Lewis

List of Publications by Year
in descending order

88 papers	5,147 citations	126858 33 h-index	88593 70 g-index
90 all docs	90 docs citations	90 times ranked	7552 citing authors

#	Article	IF	Citations
1	Cisplatin-Induced Acute Renal Failure Is Associated with an Increase in the Cytokines Interleukin (IL)-1Î², IL-18, IL-6, and Neutrophil Infiltration in the Kidney. Journal of Pharmacology and Experimental Therapeutics, 2007, 322, 8-15.	1.3	364
2	Deficiency of interleukin-18 in mice leads to hyperphagia, obesity and insulin resistance. Nature Medicine, 2006, 12, 650-656.	15.2	360
3	The Histone Deacetylase Inhibitor ITF2357 Reduces Production of Pro-Inflammatory Cytokines In Vitro and Systemic Inflammation In Vivo. Molecular Medicine, 2005, 11, 1-15.	1.9	315
4	IL-1 family nomenclature. Nature Immunology, 2010, 11, 973-973.	7.0	294
5	Anti-inflammatory and immunomodulatory properties of Î±1-antitrypsin without inhibition of elastase. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15007-15012.	3.3	227
6	Differences in signaling pathways by IL-1Â and IL-18. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8815-8820.	3.3	208
7	Mycobacterium tuberculosis Induces Interleukin-32 Production through a Caspase-1/IL-18/Interferon-Î³-Dependent Mechanism. PLoS Medicine, 2006, 3, e277.	3.9	186
8	IL-37 protects against obesity-induced inflammation and insulin resistance. Nature Communications, 2014, 5, 4711.	5.8	186
9	Î±1-Antitrypsin monotherapy induces immune tolerance during islet allograft transplantation in mice. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16236-16241.	3.3	183
10	Â1-Antitrypsin monotherapy prolongs islet allograft survival in mice. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12153-12158.	3.3	175
11	Interleukin-32 induces the differentiation of monocytes into macrophage-like cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3515-3520.	3.3	152
12	Expanding the Clinical Indications for Î±1-Antitrypsin Therapy. Molecular Medicine, 2012, 18, 957-970.	1.9	145
13	The unique hypusine modification of eIF5A promotes islet Î² cell inflammation and dysfunction in mice. Journal of Clinical Investigation, 2010, 120, 2156-2170.	3.9	144
14	Alpha-1 antitrypsin inhibits caspase-1 and protects from acute myocardial ischemiaâ€“reperfusion injury. Journal of Molecular and Cellular Cardiology, 2011, 51, 244-251.	0.9	127
15	Alpha-1-antitrypsin monotherapy reduces graft-versus-host disease after experimental allogeneic bone marrow transplantation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 564-569.	3.3	125
16	Interleukin-1Î² Regulates Fat-Liver Crosstalk in Obesity by Auto-Paracrine Modulation of Adipose Tissue Inflammation and Expandability. PLoS ONE, 2013, 8, e53626.	1.1	122
17	The Oral Histone Deacetylase Inhibitor ITF2357 Reduces Cytokines and Protects Islet Î² Cells In Vivo and In Vitro. Molecular Medicine, 2011, 17, 369-377.	1.9	99
18	The Efficacy of an Immunoisolating Membrane System for Islet Xenotransplantation in Minipigs. PLoS ONE, 2013, 8, e70150.	1.1	99

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19	Interleukin-1Î² May Mediate Insulin Resistance in Liver-Derived Cells in Response to Adipocyte Inflammation. Endocrinology, 2010, 151, 4247-4256.	1.4	97
20	Acute-phase protein Î±1-anti-trypsin: diverting injurious innate and adaptive immune responses from non-authentic threats. Clinical and Experimental Immunology, 2015, 179, 161-172.	1.1	88
21	Î±1-Antitrypsin infusion for treatment of steroid-resistant acute graft-versus-host disease. Blood, 2018, 131, 1372-1379.	0.6	81
22	Î±1-Antitrypsin Therapy Downregulates Toll-Like Receptor-Induced IL-1Î² Responses in Monocytes and Myeloid Dendritic Cells and May Improve Islet Function in Recently Diagnosed Patients With Type 1 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E1418-E1426.	1.8	68
23	Î±-1 Antitrypsin Promotes Semimature, IL-10â€“Producing and Readily Migrating Tolerogenic Dendritic Cells. Journal of Immunology, 2012, 189, 146-153.	0.4	67
24	The Mitochondrial Na+/Ca2+ Exchanger Upregulates Glucose Dependent Ca2+ Signalling Linked to Insulin Secretion. PLoS ONE, 2012, 7, e46649.	1.1	64
25	Î±-1-Antitrypsin Gene Delivery Reduces Inflammation, Increases T-Regulatory Cell Population Size and Prevents Islet Allograft Rejection. Molecular Medicine, 2011, 17, 1000-1011.	1.9	57
26	Anti-Inflammatory Preconditioning by Agonists of Adenosine A1 Receptor. PLoS ONE, 2008, 3, e2107.	1.1	56
27	Acute Phase Protein Î±1-Antitrypsin Reduces the Bacterial Burden in Mice by Selective Modulation of Innate Cell Responses. Journal of Infectious Diseases, 2015, 211, 1489-1498.	1.9	54
28	Sustained expression of circulating human alpha-1 antitrypsin reduces inflammation, increases CD4+FoxP3+ Treg cell population and prevents signs of experimental autoimmune encephalomyelitis in mice. Metabolic Brain Disease, 2011, 26, 107-113.	1.4	53
29	Pancreatic Î²â€cell Na⁺channels control global Ca²⁺signaling and oxidative metabolism by inducing Na⁺and Ca²⁺responses that are propagated into mitochondria. FASEB Journal, 2014, 28, 3301-3312.	0.2	49
30	Î±1-antitrypsin increases interleukin-1 receptor antagonist production during pancreatic islet graft transplantation. Cellular and Molecular Immunology, 2014, 11, 377-386.	4.8	47
31	Responses of IL-18- and IL-18 receptor-deficient pancreatic islets with convergence of positive and negative signals for the IL-18 receptor. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16852-16857.	3.3	46
32	Persistent Immune Responses after Ebola Virus Infection. New England Journal of Medicine, 2013, 369, 492-493.	13.9	44
33	Alpha-1 antitrypsin therapy is safe and well tolerated in children and adolescents with recent onset type 1 diabetes mellitus. Pediatric Diabetes, 2016, 17, 351-359.	1.2	36
34	Aortic Ring Assay. Journal of Visualized Experiments, 2009, , .	0.2	33
35	Caffeine promotes anti-tumor immune response during tumor initiation: Involvement of the adenosine A2A receptor. Biochemical Pharmacology, 2015, 98, 110-118.	2.0	33
36	Pancreatic Islet Xenograft Survival in Mice Is Extended by a Combination of Alpha-1-Antitrypsin and Single-Dose Anti-CD4/CD8 Therapy. PLoS ONE, 2013, 8, e63625.	1.1	32

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37	Revascularization of Pancreatic Islet Allografts is Enhanced by Î±-1-Antitrypsin under Anti-Inflammatory Conditions. Cell Transplantation, 2013, 22, 2119-2133.	1.2	28
38	Astaxanthin-based polymers as new antimicrobial compounds. Polymer Chemistry, 2017, 8, 4182-4189.	1.9	28
39	Mechanistic Evidence in Support of Alpha1-Antitrypsin as a Therapeutic Approach for Type 1 Diabetes. Journal of Diabetes Science and Technology, 2014, 8, 1193-1203.	1.3	27
40	Renal cells express a functional interleukin-15 receptor. Nephrology Dialysis Transplantation, 2005, 20, 516-523.	0.4	26
41	Î±1â€Antitrypsin modifies general natural killer cell interactions with dendritic cells and specific interactions with islet Î²â€cells in favour of protection from autoimmune diabetes. Immunology, 2015, 144, 530-539.	2.0	26
42	A crosstalk between Na+ channels, Na+/K+ pump and mitochondrial Na+ transporters controls glucose-dependent cytosolic and mitochondrial Na+ signals. Cell Calcium, 2015, 57, 69-75.	1.1	26
43	Human Î±1-Antitrypsin Binds to Heat-Shock Protein gp96 and Protects from Endogenous gp96-Mediated Injury In vivo. Frontiers in Immunology, 2013, 4, 320.	2.2	25
44	Diluted serum from calorieâ€restricted animals promotes mitochondrial Î²â€cell adaptations and protect against glucolipotoxicity. FEBS Journal, 2016, 283, 822-833.	2.2	25
45	Lower circulation levels and activity of Î±-1 Antitrypsin in pregnant women with severe preeclampsia. Journal of Maternal-Fetal and Neonatal Medicine, 2012, 25, 2667-2670.	0.7	23
46	Association Between Renal Injury and Reduced Interleukin-15 and Interleukin-15 Receptor Levels in Acute Kidney Injury. Journal of Interferon and Cytokine Research, 2010, 30, 1-8.	0.5	22
47	Human Alpha-1-Antitrypsin Modifies B Lymphocyte Responses During Allograft Transplantation. Immunology, 2013, 140, n/a-n/a.	2.0	22
48	Immune Memory to Sudan Virus: Comparison between Two Separate Disease Outbreaks. Viruses, 2015, 7, 37-51.	1.5	20
49	The In Vitro Effects of Ketamine at Large Concentrations Can Be Attributed to a Nonspecific Cytostatic Effect. Anesthesia and Analgesia, 2001, 92, 927-929.	1.1	18
50	Elimination of Negative Feedback Control Mechanisms Along the Insulin Signaling Pathway Improves Â-Cell Function Under Stress. Diabetes, 2010, 59, 2188-2197.	0.3	18
51	Low levels of circulating alpha-1 antitrypsin are associated with spontaneous abortions. Journal of Maternal-Fetal and Neonatal Medicine, 2013, 26, 1782-1787.	0.7	18
52	T Helper Subsets, Peripheral Plasticity, and the Acute Phase Protein,Î±1-Antitrypsin. BioMed Research International, 2015, 2015, 1-14.	0.9	16
53	Context-Specific and Immune Cell-Dependent Antitumor Activities of Î±1-Antitrypsin. Frontiers in Immunology, 2016, 7, 559.	2.2	16
54	INTERLEUKIN-15 IS THE MAIN MEDIATOR OF LYMPHOCYTE PROLIFERATION IN CULTURES MIXED WITH HUMAN KIDNEY TUBULAR EPITHELIAL CELLS1. Transplantation, 2001, 72, 886-890.	0.5	15

#	Article	IF	Citations
55	A Phase II, Double-Blind, Randomized, Placebo-Controlled, Multicenter Study Evaluating the Efficacy and Safety of Alpha-1 Antitrypsin (AAT) (GlassiaÂ®) in the Treatment of Recent-Onset Type 1 Diabetes. International Journal of Molecular Sciences, 2019, 20, 6032.	1.8	15
56	Distinct anti-inflammatory properties of alpha1-antitrypsin and corticosteroids reveal unique underlying mechanisms of action. Cellular Immunology, 2020, 356, 104177.	1.4	15
57	Gel clot LAL assay in the initial management of peritoneal dialysis patients with peritonitis: a retrospective study. Nephrology Dialysis Transplantation, 2000, 15, 680-683.	0.4	13
58	Major involvement of CD40 in the regulation of chemokine secretion from human peritoneal mesothelial cells. Kidney International, 2003, 64, 2064-2071.	2.6	13
59	S-Nitrosylation of Î±1-Antitrypsin Triggers Macrophages Toward Inflammatory Phenotype and Enhances Intra-Cellular Bacteria Elimination. Frontiers in Immunology, 2019, 10, 590.	2.2	13
60	Î±1-Antitrypsin insufficiency is a possible contributor to preterm premature rupture of membranes. Journal of Maternal-Fetal and Neonatal Medicine, 2012, 25, 934-937.	0.7	12
61	Therapeutic compositions and uses of alpha1-antitrypsin: a patent review (2012 â€“ 2015). Expert Opinion on Therapeutic Patents, 2016, 26, 581-589.	2.4	11
62	Point Mutation of a Non-Elastase-Binding Site in Human Î±1-Antitrypsin Alters Its Anti-Inflammatory Properties. Frontiers in Immunology, 2018, 9, 759.	2.2	11
63	MitoTimer-based high-content screen identifies two chemically-related benzothiophene derivatives that enhance basal mitophagy. Biochemical Journal, 2020, 477, 461-475.	1.7	11
64	Regulation of Autophagy by Î±1-Antitrypsin: â€œA Foe of a Foe Is a Friendâ€• Molecular Medicine, 2014, 20, 417-426.	1.9	10
65	Exploration ofÎ±1-Antitrypsin Treatment Protocol for Islet Transplantation: Dosing Plan and Route of Administration. Journal of Pharmacology and Experimental Therapeutics, 2016, 359, 482-490.	1.3	10
66	Enhanced Survival and Accelerated Perfusion of Skin Flap to Recipient Site Following Administration of Human Î±1-Antitrypsin in Murine Models. Advances in Wound Care, 2019, 8, 281-290.	2.6	10
67	Alpha-1 Antitrypsin Substitution for Extrapulmonary Conditions in Alpha-1 Antitrypsin Deficient Patients. Chronic Obstructive Pulmonary Diseases (Miami, Fla), 2018, 5, 267-276.	0.5	10
68	IL-1 Receptor Antagonist Chimeric Protein: Context-Specific and Inflammation-Restricted Activation. Journal of Immunology, 2015, 195, 1705-1712.	0.4	8
69	Correspondence of Neutralizing Humoral Immunity and CD4 T Cell Responses in Long Recovered Sudan Virus Survivors. Viruses, 2016, 8, 133.	1.5	8
70	GLUT4-overexpressing engineered muscle constructs as a therapeutic platform to normalize glycemia in diabetic mice. Science Advances, 2021, 7, eabg3947.	4.7	8
71	Erythropoietin Prevents Dialysis Fluid-Induced Apoptosis of Mesothelial Cells. Peritoneal Dialysis International, 2008, 28, 648-654.	1.1	7
72	Involvement of graft-derived interleukin-15 in islet allograft rejection in miceâ€†. Cytokine, 2006, 34, 106-113.	1.4	6

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73	Toll-like receptor 3 (TLR3) variant and NLRP12 mutation confer susceptibility to a complex clinical presentation. Clinical Immunology, 2020, 212, 108249.	1.4	6
74	M2-like macrophages and tumor-associated macrophages: overlapping and distinguishing properties en route to a safe therapeutic potential. Integrative Cancer Science and Therapeutics, 2016, 3, .	0.1	6
75	Diminished activity of circulatingÎ±1-antitrypsin is associated with pre-gestational isolated obesity. Journal of Maternal-Fetal and Neonatal Medicine, 2015, 28, 500-503.	0.7	5
76	Endogenous Î±1â€antitrypsin levels in the perilymphatic fluid correlates with severity of hearing loss. Clinical Otolaryngology, 2020, 45, 495-499.	0.6	4
77	Immunosuppressive Drugs Alter Î±1-Antitrypsin Production in Hepatocytes: Implications for Epithelial Gap Repair. Biology of Blood and Marrow Transplantation, 2020, 26, 625-633.	2.0	2
78	Application of directed evolution and back-to-consensus algorithms to human alpha1-antitrypsin leads to diminished anti-protease activity and augmented anti-inflammatory activities. Cellular Immunology, 2020, 355, 104135.	1.4	2
79	Development of anti-inflammatory peptidomimetics based on the structure of human alpha1-antitrypsin. European Journal of Medicinal Chemistry, 2021, 228, 113969.	2.6	2
80	Erythropoietin prevents dialysis fluid-induced apoptosis of mesothelial cells. Peritoneal Dialysis International, 2008, 28, 648-54.	1.1	2
81	The lipid ties of Î±1-antitrypsin: Structural and functional aspects. Cellular Immunology, 2022, 375, 104528.	1.4	2
82	Experimental Support for the Ecoimmunity Theory: Distinct Phenotypes of Nonlymphocytic Cells in SCID and Wild-Type Mice. Cell Transplantation, 2016, 25, 1575-1588.	1.2	1
83	Obesity, diabetes and zinc: A workshop promoting knowledge and collaboration between the UK and Israel, november 28â€“30, 2016 â€“ Israel. Journal of Trace Elements in Medicine and Biology, 2018, 49, 79-85.	1.5	1
84	In Vivo Electroporation-Mediated, Intrahepatic Alpha1 Antitrypsin Gene Transfer Reduces Pulmonary Emphysema in Pallid Mice. Pharmaceutics, 2020, 12, 793.	2.0	1
85	Trauma-induced vestibular dysfunction: Possible functional repair under Î±1-antitrypsin-rich conditions. Cellular Immunology, 2020, 356, 104150.	1.4	1
86	Differential signaling patterns of stimulated bone marrow-derived dendritic cells under Î±1-antitrypsin-enriched conditions. Cellular Immunology, 2021, 361, 104281.	1.4	1
87	Alpha1-antitrypsin, an endogenous immunoregulatory molecule: distinction between local and systemic effects on tumor immunology. Integrative Cancer Science and Therapeutics, 2016, 2, .	0.1	1
88	Accelerated Wound Border Closure Using a Microemulsion Containing Non-Inhibitory Recombinant Î±1-Antitrypsin. International Journal of Molecular Sciences, 2022, 23, 7364.	1.8	1