

John D Catravas

List of Publications by Year in descending order

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84
papers

3,688
citations

147726
31
h-index

133188
59
g-index

84
all docs

84
docs citations

84
times ranked

4727
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrocortisone, Vitamin C, and Thiamine for the Treatment of Severe Sepsis and Septic Shock. <i>Chest</i> , 2017, 151, 1229-1238.	0.4	729
2	Quercetin and Vitamin C: An Experimental, Synergistic Therapy for the Prevention and Treatment of SARS-CoV-2 Related Disease (COVID-19). <i>Frontiers in Immunology</i> , 2020, 11, 1451.	2.2	348
3	Regulators of endothelial and epithelial barrier integrity and function in acute lung injury. <i>Biochemical Pharmacology</i> , 2009, 77, 1763-1772.	2.0	214
4	Long-Term Antioxidant Administration Attenuates Mineralocorticoid Hypertension and Renal Inflammatory Response. <i>Hypertension</i> , 2001, 37, 781-786.	1.3	212
5	Pulmonary Capillary Endothelium-Bound Angiotensin-Converting Enzyme Activity in Acute Lung Injury. <i>Circulation</i> , 2000, 102, 2011-2018.	1.6	153
6	Heat Shock Protein 90 Inhibitors Prolong Survival, Attenuate Inflammation, and Reduce Lung Injury in Murine Sepsis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2007, 176, 667-675.	2.5	123
7	NADPH Oxidase 4 Is Expressed in Pulmonary Artery Adventitia and Contributes to Hypertensive Vascular Remodeling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 1704-1715.	1.1	103
8	Hydrocortisone and Ascorbic Acid Synergistically Prevent and Repair Lipopolysaccharide-Induced Pulmonary Endothelial Barrier Dysfunction. <i>Chest</i> , 2017, 152, 954-962.	0.4	102
9	Angiotensin II Relaxes Microvessels Via the AT ₂ Receptor and Ca ²⁺ -Activated K ⁺ (BK _{Ca}) Channels. <i>Hypertension</i> , 2001, 37, 301-307.	1.3	86
10	The SARS-CoV-2 spike protein subunit S1 induces COVID-19-like acute lung injury in β 18-hACE2 transgenic mice and barrier dysfunction in human endothelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 321, L477-L484.	1.3	82
11	Hsp90 Regulates NADPH Oxidase Activity and Is Necessary for Superoxide but Not Hydrogen Peroxide Production. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 2107-2119.	2.5	78
12	Opposing Actions of Heat Shock Protein 90 and 70 Regulate Nicotinamide Adenine Dinucleotide Phosphate Oxidase Stability and Reactive Oxygen Species Production. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 2989-2999.	1.1	76
13	Downregulation of nitrovasodilator-induced cyclic GMP accumulation in cells exposed to endotoxin or interleukin-1 β . <i>British Journal of Pharmacology</i> , 1996, 118, 1359-1366.	2.7	72
14	Heat shock protein 90 inhibitors attenuate LPS-induced endothelial hyperpermeability. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008, 294, L755-L763.	1.3	72
15	Heat Shock Protein 90 Inhibitors Protect and Restore Pulmonary Endothelial Barrier Function. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2008, 39, 551-559.	1.4	66
16	Pulmonary Capillary Endothelium-Bound Angiotensin-Converting Enzyme Activity in Humans. <i>Circulation</i> , 1999, 99, 1593-1599.	1.6	62
17	Heat Shock Protein 90 Inhibitors Prevent LPS-Induced Endothelial Barrier Dysfunction by Disrupting RhoA Signaling. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 50, 170-179.	1.4	61
18	p53 protects against LPS-induced lung endothelial barrier dysfunction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 308, L776-L787.	1.3	61

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19	Mechanisms of tolerance to sodium nitroprusside in rat cultured aortic smooth muscle cells. <i>British Journal of Pharmacology</i> , 1996, 117, 147-155.	2.7	59
20	Sequential development of angiotensin receptors and angiotensin I converting enzyme during angiogenesis in the rat subcutaneous sponge granuloma. <i>British Journal of Pharmacology</i> , 1997, 120, 1302-1311.	2.7	59
21	Wild-type p53 enhances endothelial barrier function by mediating RAC1 signalling and RhoA inhibition. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 1792-1804.	1.6	54
22	Regulation of pulmonary endothelial barrier function by kinases. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L832-L845.	1.3	48
23	PKC-Dependent Phosphorylation of eNOS at T495 Regulates eNOS Coupling and Endothelial Barrier Function in Response to G+ Toxins. <i>PLoS ONE</i> , 2014, 9, e99823.	1.1	46
24	Hsp90 inhibitors suppress P53 phosphorylation in LPS - induced endothelial inflammation. <i>Cytokine</i> , 2019, 113, 427-432.	1.4	44
25	Pulmonary capillary endothelial dysfunction in early systemic sclerosis. <i>Arthritis and Rheumatism</i> , 2001, 44, 902-911.	6.7	43
26	cGMP accumulation and gene expression of soluble guanylate cyclase in human vascular tissue. <i>Journal of Cellular Physiology</i> , 1996, 167, 213-221.	2.0	40
27	Harvesting, identification and barrier function of human lung microvascular endothelial cells. <i>Vascular Pharmacology</i> , 2010, 52, 175-181.	1.0	38
28	Histone deacetylase inhibitors prevent pulmonary endothelial hyperpermeability and acute lung injury by regulating heat shock protein 90 function. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 309, L1410-L1419.	1.3	37
29	Hsp90 inhibition suppresses NF- κ B transcriptional activation via Sirt-2 in human lung microvascular endothelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 310, L964-L974.	1.3	34
30	Novel Mechanism of Attenuation of LPS-Induced NF- κ B Activation by the Heat Shock Protein 90 Inhibitor, 17-N-allylamino-17-demethoxygeldanamycin, in Human Lung Microvascular Endothelial Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 50, 942-952.	1.4	33
31	Cytoskeleton-dependent activation of the inducible nitric oxide synthase in cultured aortic smooth muscle cells. <i>British Journal of Pharmacology</i> , 1996, 118, 1085-1094.	2.7	31
32	P53 supports endothelial barrier function via APE1/Ref1 suppression. <i>Immunobiology</i> , 2019, 224, 532-538.	0.8	30
33	LPS induces pp60 ^{c-src} -mediated tyrosine phosphorylation of Hsp90 in lung vascular endothelial cells and mouse lung. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013, 304, L883-L893.	1.3	29
34	HSP90 Inhibition and Modulation of the Proteome: Therapeutical Implications for Idiopathic Pulmonary Fibrosis (IPF). <i>International Journal of Molecular Sciences</i> , 2020, 21, 5286.	1.8	29
35	Prevention of nitric oxide synthase induction in vascular smooth muscle cells by microtubule depolymerizing agents. <i>British Journal of Pharmacology</i> , 1993, 109, 603-605.	2.7	25
36	Acute exposure of mice to hydrochloric acid leads to the development of chronic lung injury and pulmonary fibrosis. <i>Inhalation Toxicology</i> , 2019, 31, 147-160.	0.8	24

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37	Post-treatment with a heat shock protein 90 inhibitor prevents chronic lung injury and pulmonary fibrosis, following acute exposure of mice to HCl. <i>Experimental Lung Research</i> , 2020, 46, 203-216.	0.5	24
38	Nanosecond pulsed platelet-rich plasma (nsPRP) improves mechanical and electrical cardiac function following myocardial reperfusion injury. <i>Physiological Reports</i> , 2016, 4, e12710.	0.7	20
39	The HSP90 Inhibitor, AUY-922, Ameliorates the Development of Nitrogen Mustard-Induced Pulmonary Fibrosis and Lung Dysfunction in Mice. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4740.	1.8	20
40	Regulation of endothelial barrier function by TGF β 2 type I receptor ALK5: Potential role of contractile mechanisms and heat shock protein 90. <i>Journal of Cellular Physiology</i> , 2012, 227, 759-771.	2.0	19
41	The Inflammasome NLR Family Pyrin Domain-Containing Protein 3 (NLRP3) as a Novel Therapeutic Target for Idiopathic Pulmonary Fibrosis. <i>American Journal of Pathology</i> , 2022, 192, 837-846.	1.9	19
42	Dietary Phytoestrogens Ameliorate Hydrochloric Acid-Induced Chronic Lung Injury and Pulmonary Fibrosis in Mice. <i>Nutrients</i> , 2021, 13, 3599.	1.7	18
43	HSP90 Inhibitors Modulate SARS-CoV-2 Spike Protein Subunit 1-Induced Human Pulmonary Microvascular Endothelial Activation and Barrier Dysfunction. <i>Frontiers in Physiology</i> , 2022, 13, 812199.	1.3	17
44	Sex-Related Differences in Murine Models of Chemically Induced Pulmonary Fibrosis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5909.	1.8	15
45	Quantification of eNOS mRNA in the canine cardiac vasculature by competitive PCR. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 278, H658-H665.	1.5	14
46	Development of chronic lung injury and pulmonary fibrosis in mice following acute exposure to nitrogen mustard. <i>Inhalation Toxicology</i> , 2020, 32, 141-154.	0.8	14
47	Age-Dependent Chronic Lung Injury and Pulmonary Fibrosis following Single Exposure to Hydrochloric Acid. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8833.	1.8	14
48	Alcohol Increases Lung Angiotensin-Converting Enzyme 2 Expression and Exacerbates Severe Acute Respiratory Syndrome Coronavirus 2 Spike Protein Subunit 1-Induced Acute Lung Injury in K18-hACE2 Transgenic Mice. <i>American Journal of Pathology</i> , 2022, 192, 990-1000.	1.9	14
49	The HSP90 Inhibitor, AUY-922, Protects and Repairs Human Lung Microvascular Endothelial Cells from Hydrochloric Acid-Induced Endothelial Barrier Dysfunction. <i>Cells</i> , 2021, 10, 1489.	1.8	12
50	The Heat Shock Protein 90 Inhibitor, AT13387, Protects the Alveolo-Capillary Barrier and Prevents HCl-Induced Chronic Lung Injury and Pulmonary Fibrosis. <i>Cells</i> , 2022, 11, 1046.	1.8	11
51	Isolation and culture of endothelial cells from the mesenteric vascular bed. <i>Cytotechnology</i> , 1995, 17, 257-262.	0.7	10
52	Non-NF- κ B elements are required for full induction of the rat type II nitric oxide synthase in vascular smooth muscle cells. <i>British Journal of Pharmacology</i> , 2000, 130, 270-278.	2.7	10
53	Induction of nitric oxide synthase by protein synthesis inhibition in aortic smooth muscle cells. <i>British Journal of Pharmacology</i> , 1998, 123, 1000-1008.	2.7	8
54	Protective Mechanism of the Selective Vasopressin V _{1A} Receptor Agonist Selepressin against Endothelial Barrier Dysfunction. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2020, 375, 286-295.	1.3	7

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55	Inhibition of endothelialâ€bound angiotensin converting enzyme, <i>in vivo</i>. British Journal of Pharmacology, 1990, 101, 121-127.	2.7	5
56	Inhibition of pulmonary endothelial angiotensin converting enzyme activity by trandolaprilat in vivo. Drug Development Research, 1997, 41, 22-30.	1.4	3
57	Estimation of the dissociation constants for pulmonary endothelial angiotensin converting enzyme reactions with trandolaprilat and enalaprilat in vivo. Drug Development Research, 1998, 44, 80-86.	1.4	2
58	Unaltered pulmonary capillary surface area in the presence of changing arterial resistance. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1998, 274, L264-L269.	1.3	2
59	P53: â€œThe Wall Watcherâ€ Medical & Surgical Urology, 2015, 04, .	0.0	2
60	Response. Chest, 2017, 152, 451-452.	0.4	2
61	Single intratracheal exposure to SARSâ€CoVâ€2 S1 spike protein induces acute lung injury in K18â€hACE2 transgenic mice. FASEB Journal, 2021, 35, .	0.2	2
62	Heat shock protein 90 inhibitors reduce airway inflammation in a mouse model of allergic asthma.. FASEB Journal, 2010, 24, 1062.5.	0.2	1
63	Release of a leukocyte activation inhibitor by staurosporine-treated pulmonary artery endothelial cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1998, 275, L184-L192.	1.3	0
64	Response. Chest, 2017, 152, 678-679.	0.4	0
65	Response. Chest, 2017, 152, 690-691.	0.4	0
66	Response. Chest, 2017, 152, 677.	0.4	0
67	Response. Chest, 2017, 152, 223-224.	0.4	0
68	Functional Relevance of Golgi and Plasma Membrane Localized Endothelial Nitric Oxide Synthase (eNOS) in Reconstituted Endothelial cells. FASEB Journal, 2006, 20, A721.	0.2	0
69	CHIP, a novel associating partner of soluble guanylyl cyclase.. FASEB Journal, 2006, 20, A1126.	0.2	0
70	Effects of estrogen on bronchial hyperresponsiveness of ovariectomized murine tracheal rings sensitized with human asthmatic serum.. FASEB Journal, 2006, 20, A672.	0.2	0
71	Nitric oxide (NO) preconditioning protects endothelial cells against SNPâ€induced apoptosis via the hsp90â€sGC pathway.. FASEB Journal, 2006, 20, A230.	0.2	0
72	Barrierâ€protective effects of hsp90 inhibitors in bovine pulmonary arterial endothelial cells.. FASEB Journal, 2007, 21, A1430.	0.2	0

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73	Heat Shock Protein Inhibition in Sickle Cell Disease: A Novel Approach to Attenuating the Inflammatory Response?.. Blood, 2007, 110, 2263-2263.	0.6	0
74	Hsp90 inhibitors prevent LPS-induced endothelial hyperpermeability by inhibiting pp60 src activation and maintaining adherens junction proteins. FASEB Journal, 2008, 22, 915.6.	0.2	0
75	Estrogen reduces inflammation of asthmatic airways by inhibiting pathways leading to oxidant stress.. FASEB Journal, 2008, 22, 929.6.	0.2	0
76	The lectin-like domain of TNF, but not cAMP, protects from Listeriolysin O-induced endothelial hyperpermeability. FASEB Journal, 2009, 23, LB389.	0.2	0
77	LPS-induced posttranslational modifications of hsp90 in pulmonary endothelial cells. FASEB Journal, 2009, 23, 1024.14.	0.2	0
78	Estrogen reduces AHR, stimulates NO release and inhibits ROS production in murine asthmatic airways. FASEB Journal, 2009, 23, 622.11.	0.2	0
79	Hsp90 regulates NADPH oxidase activity and is necessary for superoxide but not hydrogen peroxide production. FASEB Journal, 2011, 25, 1094.5.	0.2	0
80	Glutathione Supplementation Attenuates Inflammation and Improves Lung Mechanics in a Murine Model of Acute Lung Injury. FASEB Journal, 2011, 25, 1101.11.	0.2	0
81	LPS-induced Hyperpermeability in Human Lung Microvascular Endothelial Cells (HLMVEC) Involves the Nitration-mediated Activation of RhoA. FASEB Journal, 2011, 25, 1101.2.	0.2	0
82	The hsp90 inhibitor, 17-β-AAG, reduces pulmonary arterial calcineurin activity in monocrotaline-induced pulmonary arterial hypertension (PAH). FASEB Journal, 2011, 25, 1034.9.	0.2	0
83	Hsp90 inhibition prevents monocrotaline-induced pulmonary hypertension in rats, as revealed by high resolution echocardiography. FASEB Journal, 2012, 26, 873.17.	0.2	0
84	Hsp90 Inhibitors Suppress P53 Phosphorylation in LPS-induced Endothelial Inflammation. FASEB Journal, 2019, 33, 709.6.	0.2	0