Steve Lancel

List of Publications by Year in descending order

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66 papers	8,601 citations	109321 35 h-index	114465 63 g-index
72 all docs	72 docs citations	72 times ranked	19990 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Rev-erb-Î± modulates skeletal muscle oxidative capacity by regulating mitochondrial biogenesis and autophagy. Nature Medicine, 2013, 19, 1039-1046.	30.7	361
3	Targeting Oxidative Stress and Mitochondrial Dysfunction in the Treatment of Impaired Wound Healing: A Systematic Review. Antioxidants, 2018, 7, 98.	5.1	299
4	Carbon Monoxide Rescues Mice from Lethal Sepsis by Supporting Mitochondrial Energetic Metabolism and Activating Mitochondrial Biogenesis. Journal of Pharmacology and Experimental Therapeutics, 2009, 329, 641-648.	2.5	171
5	Mitochondrial proliferation during apoptosis induced by anticancer agents: effects of doxorubicin and mitoxantrone on cancer and cardiac cells. Oncogene, 2004, 23, 7018-7030.	5.9	167
6	Tau deletion promotes brain insulin resistance. Journal of Experimental Medicine, 2017, 214, 2257-2269.	8.5	158
7	Inhibition of Mitochondrial Permeability Transition Prevents Sepsis-Induced Myocardial Dysfunction and Mortality. Journal of the American College of Cardiology, 2006, 48, 377-385.	2.8	156
8	Nuclear Receptor Subfamily 1 Group D Member 1 Regulates Circadian Activity of NLRP3 Inflammasome to Reduce the Severity of Fulminant Hepatitis in Mice. Gastroenterology, 2018, 154, 1449-1464.e20.	1.3	144
9	Nitroxyl Activates SERCA in Cardiac Myocytes via Glutathiolation of Cysteine 674. Circulation Research, 2009, 104, 720-723.	4.5	138
10	Ventricular Myocyte Caspases Are Directly Responsible for Endotoxin-Induced Cardiac Dysfunction. Circulation, 2005, 111, 2596-2604.	1.6	116
11	Redox-mediated reciprocal regulation of SERCA and Na+â€“Ca2+ exchanger contributes to sarcoplasmic reticulum Ca2+ depletion in cardiac myocytes. Free Radical Biology and Medicine, 2010, 48, 1182-1187.	2.9	113
12	NADPH oxidases participate to doxorubicin-induced cardiac myocyte apoptosis. Biochemical and Biophysical Research Communications, 2009, 388, 727-731.	2.1	111
13	Metabolic and Innate Immune Cues Merge into a Specific Inflammatory Response via the UPR. Cell, 2019, 177, 1201-1216.e19.	28.9	100
14	Inhibition of mitochondrial respiration mediates apoptosis induced by the anti-tumoral alkaloid lamellarin D. Apoptosis: an International Journal on Programmed Cell Death, 2010, 15, 769-781.	4.9	98
15	Peroxynitrite decomposition catalysts prevent myocardial dysfunction and inflammation in endotoxemic rats. Journal of the American College of Cardiology, 2004, 43, 2348-2358.	2.8	94
16	Endotoxin-induced myocardial dysfunction: Evidence for a role of sphingosine production*. Critical Care Medicine, 2004, 32, 495-501.	0.9	91
17	Hydrogen Peroxideâ€“Mediated SERCA Cysteine 674 Oxidation Contributes to Impaired Cardiac Myocyte Relaxation in Senescent Mouse Heart. Journal of the American Heart Association, 2013, 2, e000184.	3.7	91
18	Prevention of endotoxin-induced sarcoplasmic reticulum calcium leak improves mitochondrial and myocardial dysfunction*. Critical Care Medicine, 2008, 36, 2590-2596.	0.9	90

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19	Short Communication: Oxidative Posttranslational Modifications Mediate Decreased SERCA Activity and Myocyte Dysfunction in Gî±q-Overexpressing Mice. Circulation Research, 2010, 107, 228-232.	4.5	83
20	Relative contribution of three main virulence factors in Pseudomonas aeruginosa pneumonia*. Critical Care Medicine, 2011, 39, 2113-2120.	0.9	79
21	Cardiac-Specific Overexpression of Catalase Identifies Hydrogen Peroxide-Dependent and -Independent Phases of Myocardial Remodeling and Prevents the Progression to Overt Heart Failure in Gî±q-Overexpressing Transgenic Mice. Circulation: Heart Failure, 2010, 3, 306-313.	3.9	66
22	Doxorubicin induces mitochondrial permeability transition and contractile dysfunction in the human myocardium. Mitochondrion, 2011, 11, 22-26.	3.4	58
23	Mitochondrial oxidative phosphorylation controls cancer cell's life and death decisions upon exposure to MAPK inhibitors. Oncotarget, 2016, 7, 39473-39485.	1.8	58
24	Energetic dysfunction in sepsis: a narrative review. Annals of Intensive Care, 2021, 11, 104.	4.6	57
25	Doxorubicin-induced cardiac dysfunction is attenuated by ciclosporin treatment in mice through improvements in mitochondrial bioenergetics. Clinical Science, 2011, 121, 405-413.	4.3	55
26	Hepatic PPARÎ± is critical in the metabolic adaptation to sepsis. Journal of Hepatology, 2019, 70, 963-973.	3.7	53
27	Carbon Monoxide Improves Cardiac Function and Mitochondrial Population Quality in a Mouse Model of Metabolic Syndrome. PLoS ONE, 2012, 7, e41836.	2.5	53
28	Maternal calorie restriction modulates placental mitochondrial biogenesis and bioenergetic efficiency: putative involvement in fetoplacental growth defects in rats. American Journal of Physiology - Endocrinology and Metabolism, 2013, 304, E14-E22.	3.5	52
29	CALPAIN INHIBITORS IMPROVE MYOCARDIAL DYSFUNCTION AND INFLAMMATION INDUCED BY ENDOTOXIN IN RATS. Shock, 2004, 21, 352-357.	2.1	47
30	The nuclear receptor FXR inhibits Glucagon-Like Peptide-1 secretion in response to microbiota-derived Short-Chain Fatty Acids. Scientific Reports, 2020, 10, 174.	3.3	45
31	Expression of apoptosis regulatory factors during myocardial dysfunction in endotoxemic rats*. Critical Care Medicine, 2005, 33, 492-496.	0.9	44
32	Cardiac force-frequency relationship and frequency-dependent acceleration of relaxation are impaired in LPS-treated rats. Critical Care, 2009, 13, R14.	5.8	43
33	Stabilization of mitochondrial membrane potential prevents doxorubicin-induced cardiotoxicity in isolated rat heart. Toxicology and Applied Pharmacology, 2010, 244, 300-307.	2.8	42
34	Cytokine profile of human septic shock serum inducing cardiomyocyte contractile dysfunction. Physiological Research, 2007, 56, 291-297.	0.9	40
35	Myocardial Dysfunction and Potential Cardiac Hypoxia in Rats Induced by Carbon Monoxide Inhalation. American Journal of Respiratory and Critical Care Medicine, 2006, 174, 320-325.	5.6	39
36	Rev-erb-Î± regulates atrophy-related genes to control skeletal muscle mass. Scientific Reports, 2017, 7, 14383.	3.3	39

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37	Fenofibrate inhibits aldosterone-induced apoptosis in adult rat ventricular myocytes via stress-activated kinase-dependent mechanisms. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H1983-H1993.	3.2	35
38	Cardiac contractile function and mitochondrial respiration in diabetes-related mouse models. Cardiovascular Diabetology, 2014, 13, 118.	6.8	35
39	Caspase-dependent protein phosphatase 2A activation contributes to endotoxin-induced cardiomyocyte contractile dysfunction*. Critical Care Medicine, 2010, 38, 2031-2036.	0.9	33
40	Glycogen Dynamics Drives Lipid Droplet Biogenesis during Brown Adipocyte Differentiation. Cell Reports, 2019, 29, 1410-1418.e6.	6.4	31
41	Influenza infection rewires energy metabolism and induces browning features in adipose cells and tissues. Communications Biology, 2020, 3, 237.	4.4	30
42	Cardiovascular protective role for activated protein C during endotoxemia in rats. Intensive Care Medicine, 2006, 32, 899-905.	8.2	26
43	AMP-activated protein kinase deficiency reduces ozone-induced lung injury and oxidative stress in mice. Respiratory Research, 2011, 12, 64.	3.6	23
44	From mitochondria to sarcopenia: Role of inflammaging and RAGE-ligand axis implication. Experimental Gerontology, 2021, 146, 111247.	2.8	23
45	Endoplasmic reticulum stress actively suppresses hepatic molecular identity in damaged liver. Molecular Systems Biology, 2020, 16, e9156.	7.2	22
46	CDKN2A/p16INK4a suppresses hepatic fatty acid oxidation through the AMPKÎ±2-SIRT1-PPARÎ± signaling pathway. Journal of Biological Chemistry, 2020, 295, 17310-17322.	3.4	17
47	Inhaled nitric oxide increases endothelial permeability in Pseudomonas aeruginosa pneumonia. Intensive Care Medicine, 2007, 33, 503-510.	8.2	16
48	Brain insulin response and peripheral metabolic changes in a Tau transgenic mouse model. Neurobiology of Disease, 2019, 125, 14-22.	4.4	16
49	The receptor for advanced glycation end products is a sensor for cellâ€free heme. FEBS Journal, 2021, 288, 3448-3464.	4.7	16
50	ANNEXIN V DETECTION OF LIPOPOLYSACCHARIDE-INDUCED CARDIAC APOPTOSIS. Shock, 2007, 27, 69-74.	2.1	15
51	Mitochondria and endoplasmic reticulum: Targets for a better insulin sensitivity in skeletal muscle?. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 901-916.	2.4	13
52	Sphingosine impairs mitochondrial function by opening permeability transition pore. Mitochondrion, 2006, 6, 149-154.	3.4	12
53	The synthetic pentasaccharide fondaparinux prevents coronary microvascular injury and myocardial dysfunction in the ischemic heart. Thrombosis and Haemostasis, 2008, 100, 912-919.	3.4	10
54	Control of cell death/survival balance by the MET dependence receptor. ELife, 2020, 9, .	6.0	10

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55	Mitochondrial-Targeted Therapies Require Mitophagy to Prevent Oxidative Stress Induced by SOD2 Inactivation in Hypertrophied Cardiomyocytes. Antioxidants, 2022, 11, 723.	5.1	7
56	Macrophage Migration Inhibitory Factor Inhibition Is Deleterious for High-Fat Diet-Induced Cardiac Dysfunction. PLoS ONE, 2013, 8, e58718.	2.5	4
57	Monoxyde de carbone et coeur : des effets univoques ?. Bulletin De L'Academie Nationale De Medecine, 2006, 190, 1961-1975.	0.0	4
58	Endospanin-2 enhances skeletal muscle energy metabolism and running endurance capacity. JCI Insight, 2018, 3, .	5.0	4
59	Impaired Glucose Homeostasis in a Tau Knock-In Mouse Model. Frontiers in Molecular Neuroscience, 2022, 15, 841892.	2.9	4
60	Differential unfolded protein response in skeletal muscle from non-diabetic glucose tolerant or intolerant patients with obesity before and after bariatric surgery. Acta Diabetologica, 2020, 57, 819-826.	2.5	1
61	Title is missing!. Critical Care, 2005, 9, P187.	5.8	0
62	Apolipoprotein a5-deficiency promotes cardiac glucose metabolism and protects against acute myocardial stresses. Atherosclerosis, 2014, 235, e45.	0.8	0
63	A452 Differential Unfolded Protein Response expression in skeletal muscle from patients with obesity with normal or impaired glucose tolerance before and after bariatric surgery. Surgery for Obesity and Related Diseases, 2019, 15, S185.	1.2	0
64	Abstract 930: NADPH Oxidase 2 is Responsible for Î±1-Adrenergic Receptor-Dependent Reactive Oxygen Species Production in Adult Rat Ventricular Myocytes. Circulation, 2007, 116, .	1.6	0
65	Abstract 154: Hydrogen Peroxide-Induced Contractile Dysfunction is Mediated Through Oxidation of SERCA on Cysteine-674. Circulation, 2007, 116, .	1.6	0
66	Rev-erb-Î± : une cible thÃ©rapeutique contre la perte de masse musculaire ?. Les Cahiers De Myologie, 2018, , 43-44.	0.0	0