

Francisco J Villarreal

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,388
citations

172207

29
h-index

214527

47
g-index

72
all docs

72
docs citations

72
times ranked

3015
citing authors

#	ARTICLE	IF	CITATIONS
1	Is it possible to treat nonalcoholic liver disease using a flavanol-based nutraceutical approach? Basic and clinical data. <i>Journal of Basic and Clinical Physiology and Pharmacology</i> , 2022, 33, 703-714.	0.7	5
2	Beneficial Effects of Flavonoids on Skeletal Muscle Health: A Systematic Review and Meta-Analysis. <i>Journal of Medicinal Food</i> , 2022, 25, 465-486.	0.8	7
3	(âˆ“)â€Epicatechin induces mitochondrial biogenesis and markers of muscle regeneration in adults with Becker muscular dystrophy. <i>Muscle and Nerve</i> , 2021, 63, 239-249.	1.0	30
4	Stimulatory effects of (âˆ“)â€epicatechin and its enantiomer (+)-epicatechin on mouse frontal cortex neurogenesis markers and short-term memory: proof of concept. <i>Food and Function</i> , 2021, 12, 3504-3515.	2.1	6
5	Antifibrotic Effects of (âˆ“)â€Epicatechin on High Glucose Stimulated Cardiac Fibroblasts. <i>Journal of Medicinal Food</i> , 2021, 24, 1177-1185.	0.8	2
6	Selective FPR2 Agonism Promotes a Proresolution Macrophage Phenotype and Improves Cardiac Structure-Function Post Myocardial Infarction. <i>JACC Basic To Translational Science</i> , 2021, 6, 676-689.	1.9	26
7	Anticancer potential of (âˆ“)â€epicatechin in a triple-negative mammary gland model. <i>Journal of Pharmacy and Pharmacology</i> , 2021, 73, 1675-1682.	1.2	6
8	Restorative potential of (âˆ“)â€epicatechin in a rat model of Gulf War illness muscle atrophy and fatigue. <i>Scientific Reports</i> , 2021, 11, 21861.	1.6	6
9	11-Î²-hydroxysterols as possible endogenous stimulators of mitochondrial biogenesis as inferred from epicatechin molecular mimicry. <i>Pharmacological Research</i> , 2020, 151, 104540.	3.1	8
10	Effects of (âˆ“)â€epicatechin on the time course of the expression of perilipins in a diet-induced model of nonalcoholic steatohepatitis. <i>Journal of Nutritional Biochemistry</i> , 2020, 77, 108296.	1.9	12
11	Flavonoids from dark chocolate and (âˆ“)â€epicatechin ameliorate high-fat diet-induced decreases in mobility and muscle damage in aging mice. <i>Food Bioscience</i> , 2020, 37, 100710.	2.0	15
12	Arginase inhibition by (âˆ“)â€Epicatechin reverses endothelial cell aging. <i>European Journal of Pharmacology</i> , 2020, 885, 173442.	1.7	17
13	Effects of (âˆ“)â€epicatechin on neuroinflammation and hyperphosphorylation of tau in the hippocampus of aged mice. <i>Food and Function</i> , 2020, 11, 10351-10361.	2.1	16
14	In Pursuit of Understanding the Role of Estrogens in Regulating Cardiac Structure and Function. <i>JACC Basic To Translational Science</i> , 2020, 5, 913-915.	1.9	1
15	Development of muscle atrophy and loss of function in a Gulf-War illness model: underlying mechanisms. <i>Scientific Reports</i> , 2020, 10, 14526.	1.6	6
16	PXR is a target of (-)-epicatechin in skeletal muscle. <i>Heliyon</i> , 2020, 6, e05357.	1.4	11
17	(âˆ“)â€Epicatechin reduces muscle waste after complete spinal cord transection in a murine model: role of ubiquitinâ€proteasome system. <i>Molecular Biology Reports</i> , 2020, 47, 8975-8985.	1.0	6
18	Discovery of BMS-986235/LAR-1219: A Potent Formyl Peptide Receptor 2 (FPR2) Selective Agonist for the Prevention of Heart Failure. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 9003-9019.	2.9	45

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19	The role of inflammation in driving left ventricular remodeling in a pre-HFpEF model. <i>Experimental Biology and Medicine</i> , 2020, 245, 748-757.	1.1	12
20	Sex related differences in the pathogenesis of organ fibrosis. <i>Translational Research</i> , 2020, 222, 41-55.	2.2	31
21	Effects of Cacao By-Products and a Modest Weight Loss Intervention on the Concentration of Serum Triglycerides in Overweight Subjects: Proof of Concept. <i>Journal of Medicinal Food</i> , 2020, 23, 745-749.	0.8	5
22	Unmasking of oestrogen-dependent changes in left ventricular structure and function in aged female rats: a potential model for pre-heart failure with preserved ejection fraction. <i>Journal of Physiology</i> , 2019, 597, 1805-1817.	1.3	15
23	Early hyperbaric oxygen therapy improves survival in a model of severe sepsis. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 317, R160-R168.	0.9	29
24	High Flavonoid Cocoa Supplement Ameliorates Plasma Oxidative Stress and Inflammation Levels While Improving Mobility and Quality of Life in Older Subjects: A Double-Blind Randomized Clinical Trial. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 1620-1627.	1.7	41
25	Obesity and Cardiovascular Risk Improvement Using Cacao By-Products in a Diet-Induced Obesity Murine Model. <i>Journal of Medicinal Food</i> , 2019, 22, 567-577.	0.8	3
26	Structural and energetic basis for novel epicatechin derivatives acting as GPER agonists through the MMGBSA method. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2019, 189, 176-186.	1.2	10
27	Preservation of Post-Infarction Cardiac Structure and Function via Long-Term Oral Formyl Peptide Receptor Agonist Treatment. <i>JACC Basic To Translational Science</i> , 2019, 4, 905-920.	1.9	32
28	Antifibrotic Effect of (-)-Epicatechin in a Rodent Model of Early Stage HFpEF. <i>FASEB Journal</i> , 2019, 33, lb506.	0.2	0
29	Synthesis of novel (-)-epicatechin derivatives as potential endothelial GPER agonists: Evaluation of biological effects. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 658-663.	1.0	11
30	(-)-Epicatechin stimulates mitochondrial biogenesis and cell growth in C2C12 myotubes via the G-protein coupled estrogen receptor. <i>European Journal of Pharmacology</i> , 2018, 822, 95-107.	1.7	42
31	The cardioprotective effects of (-)-Epicatechin are mediated through arginase activity inhibition in a murine model of ischemia/reperfusion. <i>European Journal of Pharmacology</i> , 2018, 818, 335-342.	1.7	21
32	A pilot study on clinical pharmacokinetics and preclinical pharmacodynamics of (+)-epicatechin on cardiometabolic endpoints. <i>Food and Function</i> , 2018, 9, 307-319.	2.1	15
33	(-)-Epicatechin induced reversal of endothelial cell aging and improved vascular function: underlying mechanisms. <i>Food and Function</i> , 2018, 9, 4802-4813.	2.1	31
34	Detrimental Effects of Aging, Ovariectomy and Weight Gain on Left Ventricular Structure and Function: A Potential Preclinical Model of Early Stage HFpEF. <i>FASEB Journal</i> , 2018, 32, 848.13.	0.2	0
35	Improved in vitro angiogenic behavior on anodized titanium dioxide nanotubes. <i>Journal of Nanobiotechnology</i> , 2017, 15, 10.	4.2	39
36	Browning effects of (-)-epicatechin on adipocytes and white adipose tissue. <i>European Journal of Pharmacology</i> , 2017, 811, 48-59.	1.7	36

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37	Effects of (âˆ“)epicatechin on frontal cortex DAPC and dysbindin of the mdx mice. <i>Neuroscience Letters</i> , 2017, 658, 142-149.	1.0	3
38	Mitochondrial H ⁺ -ATP synthase in human skeletal muscle: contribution to dyslipidaemia and insulin resistance. <i>Diabetologia</i> , 2017, 60, 2052-2065.	2.9	32
39	Effects of a Natural Extract of <i>Aronia melanocarpa</i> Berry on Endothelial Cell Nitric Oxide Production. <i>Journal of Food Biochemistry</i> , 2016, 40, 404-410.	1.2	11
40	(-)-Epicatechin-induced recovery of mitochondria from simulated diabetes: Potential role of endothelial nitric oxide synthase. <i>Diabetes and Vascular Disease Research</i> , 2016, 13, 201-210.	0.9	50
41	Beneficial effects of dark chocolate on exercise capacity in sedentary subjects: underlying mechanisms. A double blind, randomized, placebo controlled trial. <i>Food and Function</i> , 2016, 7, 3686-3693.	2.1	56
42	A randomized, placebo-controlled, double-blind study on the effects of (âˆ“)epicatechin on the triglyceride/HDLc ratio and cardiometabolic profile of subjects with hypertriglyceridemia: Unique in vitro effects. <i>International Journal of Cardiology</i> , 2016, 223, 500-506.	0.8	45
43	Pharmacokinetic, partial pharmacodynamic and initial safety analysis of (âˆ“)epicatechin in healthy volunteers. <i>Food and Function</i> , 2015, 6, 824-833.	2.1	31
44	Recovery of Indicators of Mitochondrial Biogenesis, Oxidative Stress, and Aging With (âˆ“)Epicatechin in Senile Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 1370-1378.	1.7	76
45	Improved Osteoblast and Chondrocyte Adhesion and Viability by Surface-Modified Ti6Al4V Alloy with Anodized TiO ₂ Nanotubes Using a Super-Oxidative Solution. <i>Materials</i> , 2015, 8, 867-883.	1.3	40
46	The effects of (âˆ“)epicatechin on endothelial cells involve the G protein-coupled estrogen receptor (GPER). <i>Pharmacological Research</i> , 2015, 100, 309-320.	3.1	54
47	Co-administration of the flavanol (-)-epicatechin with doxycycline synergistically reduces infarct size in a model of ischemia reperfusion injury by inhibition of mitochondrial swelling. <i>European Journal of Pharmacology</i> , 2014, 744, 76-82.	1.7	20
48	(âˆ“)â€¦Epicatechin improves mitochondrialâ€¦related protein levels and ameliorates oxidative stress in dystrophic Î²â€¦sarcoglycan null mouse striated muscle. <i>FEBS Journal</i> , 2014, 281, 5567-5580.	2.2	41
49	Myocardial matrix metalloproteinase-2: inside out and upside down. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 77, 64-72.	0.9	89
50	Effects of (âˆ“)epicatechin on molecular modulators of skeletal muscle growth and differentiation. <i>Journal of Nutritional Biochemistry</i> , 2014, 25, 91-94.	1.9	76
51	Effects of (âˆ“)epicatechin on a diet-induced rat model of cardiometabolic risk factors. <i>European Journal of Pharmacology</i> , 2014, 728, 24-30.	1.7	70
52	Cell membrane mediated (âˆ“)epicatechin effects on upstream endothelial cell signaling: Evidence for a surface receptor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 2749-2752.	1.0	37
53	(âˆ“)Epicatechin rich cocoa mediated modulation of oxidative stress regulators in skeletal muscle of heart failure and type 2 diabetes patients. <i>International Journal of Cardiology</i> , 2013, 168, 3982-3990.	0.8	83
54	Perturbations in skeletal muscle sarcomere structure in patients with heart failure and Type 2 diabetes: restorative effects of (âˆ“)epicatechin rich cocoa. <i>Clinical Science</i> , 2013, 125, 383-389.	1.8	44

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55	Stimulatory Effects of the Flavanol (-)-Epicatechin on Cardiac Angiogenesis. <i>Journal of Cardiovascular Pharmacology</i> , 2012, 60, 429-438.	0.8	26
56	Alterations in Skeletal Muscle Indicators of Mitochondrial Structure and Biogenesis in Patients with Type 2 Diabetes and Heart Failure: Effects of Epicatechin Rich Cocoa. <i>Clinical and Translational Science</i> , 2012, 5, 43-47.	1.5	107
57	Effects of epicatechin rich cocoa on REDUX status in human skeletal muscle. <i>FASEB Journal</i> , 2012, 26, 888.11.	0.2	2
58	Excess Protein O-GlcNAcylation and the Progression of Diabetic Cardiomyopathy. <i>FASEB Journal</i> , 2012, 26, 759.1.	0.2	0
59	(-)-Epicatechin enhances fatigue resistance and oxidative capacity in mouse muscle. <i>Journal of Physiology</i> , 2011, 589, 4615-4631.	1.3	162
60	(-)-Epicatechin induces calcium and translocation independent eNOS activation in arterial endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 300, C880-C887.	2.1	44
61	(-)-Epicatechin Activation of Endothelial Cell Endothelial Nitric Oxide Synthase, Nitric Oxide, and Related Signaling Pathways. <i>Hypertension</i> , 2010, 55, 1398-1405.	1.3	145
62	Effects of (-)-Epicatechin on Myocardial Infarct Size and Left Ventricular Remodeling After Permanent Coronary Occlusion. <i>Journal of the American College of Cardiology</i> , 2010, 55, 2869-2876.	1.2	59
63	Regulation of cardiac fibroblast collagen synthesis by adenosine: roles for Epac and PI3K. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 296, C1178-C1184.	2.1	51
64	Pleiotropic properties of minocycline preserve cardiac function during ischemia/reperfusion injury. <i>FASEB Journal</i> , 2008, 22, 730.25.	0.2	0
65	Early degradation and serum appearance of type I collagen fragments after myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , 2004, 36, 597-601.	0.9	30
66	Modulation of cardiac remodeling by adenosine: In vitro and in vivo effects. <i>Molecular and Cellular Biochemistry</i> , 2003, 251, 17-26.	1.4	29
67	Early Short-Term Treatment With Doxycycline Modulates Postinfarction Left Ventricular Remodeling. <i>Circulation</i> , 2003, 108, 1487-1492.	1.6	130
68	Modulation of cardiac remodeling by adenosine: in vitro and in vivo effects. <i>Molecular and Cellular Biochemistry</i> , 2003, 251, 17-26.	1.4	12
69	Time-dependent increases in type-III collagen gene expression in medial collateral ligament fibroblasts under cyclic strains. <i>Journal of Orthopaedic Research</i> , 2000, 18, 220-227.	1.2	109
70	Thyroid hormone-induced stimulation of the sarcoplasmic reticulum Ca ²⁺ ATPase gene is inhibited by LIF and IL-6. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 278, E738-E743.	1.8	11
71	Nicotine-modified postinfarction left ventricular remodeling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 276, H1103-H1106.	1.5	15