Alfonso Eirin

List of Publications by Year in Descending Order

120 papers	3,322 citations	34 h-index	53 g-index
133 ext. papers	3,973 ext. citations	5.8 avg, IF	5.53 L-index

#	Paper	IF	Citations
120	Emergent players in renovascular disease.. *Clinical Science*, **2022**, 136, 239-256	6.5	1
119	Renal mitochondrial injury in the pathogenesis of CKD: mtDNA and mitomiRs.. *Clinical Science*, **2022** , 136, 345-360	6.5	0
118	Renal Ischemia Induces Epigenetic Changes in Apoptotic, Proteolytic, and Mitochondrial Genes in Swine Scattered Tubular-like Cells. *Cells*, **2022**, 11, 1803	7.9	0
117	Mitochondria, a Missing Link in COVID-19 Heart Failure and Arrest?. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 830024	5.4	1
116	Superimposition of metabolic syndrome magnifies post-stenotic kidney injury in dyslipidemic pigs. *American Journal of Translational Research (discontinued)*, **2021**, 13, 8965-8976	3	
115	Renovascular Hypertension Induces Myocardial Mitochondrial Damage, Contributing to Cardiac Injury and Dysfunction in Pigs With Metabolic Syndrome. *American Journal of Hypertension*, **2021**, 34, 172-182	2.3	2
114	Global epigenetic alterations of mesenchymal stem cells in obesity: the role of vitamin C reprogramming. *Epigenetics*, **2021**, 16, 705-717	5.7	6
113	Mesenchymal Stem/Stromal Cell-Derived Extracellular Vesicles Elicit Better Preservation of the Intra-Renal Microvasculature Than Renal Revascularization in Pigs with Renovascular Disease. *Cells*, **2021**, 10,	7.9	2
112	Mesenchymal stem cells protect renal tubular cells via TSG-6 regulating macrophage function and phenotype switching. *American Journal of Physiology - Renal Physiology*, **2021**, 320, F454-F463	4.3	4
111	Hypoxic preconditioning induces epigenetic changes and modifies swine mesenchymal stem cell angiogenesis and senescence in experimental atherosclerotic renal artery stenosis. *Stem Cell Research and Therapy*, **2021**, 12, 240	8.3	5
110	Diabetic Kidney Disease Alters the Transcriptome and Function of Human Adipose-Derived Mesenchymal Stromal Cells but Maintains Immunomodulatory and Paracrine Activities Important for Renal Repair. *Diabetes*, **2021**, 70, 1561-1574	0.9	5
109	The Micro-RNA Cargo of Extracellular Vesicles Released by Human Adipose Tissue-Derived Mesenchymal Stem Cells Is Modified by Obesity. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 660851	5.7	2
108	Percutaneous transluminal renal angioplasty attenuates poststenotic kidney mitochondrial damage in pigs with renal artery stenosis and metabolic syndrome. *Journal of Cellular Physiology*, **2021**, 236, 4036-4049	7	3
107	Duodenal mucosal mitochondrial gene expression is associated with delayed gastric emptying in diabetic gastroenteropathy. *JCI Insight*, **2021**, 6,	9.9	3
106	Renovascular Disease Induces Senescence in Renal Scattered Tubular-Like Cells and Impairs Their Reparative Potency. *Hypertension*, **2021**, 77, 507-518	8.5	4
105	Renal Revascularization Attenuates Myocardial Mitochondrial Damage and Improves Diastolic Function in Pigs with Metabolic Syndrome and Renovascular Hypertension. *Journal of Cardiovascular Translational Research*, **2021**, 1	3.3	0
104	Metabolic Syndrome Is Associated With Altered mRNA and miRNA Content in Human Circulating Extracellular Vesicles. *Frontiers in Endocrinology*, **2021**, 12, 687586	5.7	1

103	Differentially Expressed Functional LncRNAs in Human Subjects With Metabolic Syndrome Reflect a Competing Endogenous RNA Network in Circulating Extracellular Vesicles. *Frontiers in Molecular Biosciences*, **2021**, 8, 667056	5.6	1
102	Mesenchymal Stem/Stromal Cell-Derived Extracellular Vesicles for Chronic Kidney Disease: Are We There Yet?. *Hypertension*, **2021**, 78, 261-269	8.5	6
101	Intrarenal modulation of NF-B activity attenuates cardiac injury in a swine model of CKD: a renal-cardio axis. *American Journal of Physiology - Renal Physiology*, **2021**, 321, F411-F423	4.3	0
100	Metabolic Syndrome Alters the Cargo of Mitochondria-Related microRNAs in Swine Mesenchymal Stem Cell-Derived Extracellular Vesicles, Impairing Their Capacity to Repair the Stenotic Kidney. *Stem Cells International*, **2020**, 2020, 8845635	5	7
99	Renal ischemia alters expression of mitochondria-related genes and impairs mitochondrial structure and function in swine scattered tubular-like cells. *American Journal of Physiology - Renal Physiology*, **2020**, 319, F19-F28	4.3	8
98	Metabolic Syndrome Impairs 3D Mitochondrial Structure, Dynamics, and Function in Swine Mesenchymal Stem Cells. *Stem Cell Reviews and Reports*, **2020**, 16, 933-945	7.3	4
97	Experimental Renovascular Disease Induces Endothelial Cell Mitochondrial Damage and Impairs Endothelium-Dependent Relaxation of Renal Artery Segments. *American Journal of Hypertension*, **2020**, 33, 765-774	2.3	3
96	Oxidative Stress and Mitochondrial Abnormalities Contribute to Decreased Endothelial Nitric Oxide Synthase Expression and Renal Disease Progression in Early Experimental Polycystic Kidney Disease. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	12
95	Mesenchymal Stem Cell-Derived Extracellular Vesicles Induce Regulatory T Cells to Ameliorate Chronic Kidney Injury. *Hypertension*, **2020**, 75, 1223-1232	8.5	24
94	Extracellular vesicles released by adipose tissue-derived mesenchymal stromal/stem cells from obese pigs fail to repair the injured kidney. *Stem Cell Research*, **2020**, 47, 101877	1.6	15
93	Selective intrarenal delivery of mesenchymal stem cell-derived extracellular vesicles attenuates myocardial injury in experimental metabolic renovascular disease. *Basic Research in Cardiology*, **2020**, 115, 16	11.8	28
92	Upregulated tumor necrosis factor-transcriptome and proteome in adipose tissue-derived mesenchymal stem cells from pigs with metabolic syndrome. *Cytokine*, **2020**, 130, 155080	4	8
91	General Public's Information-Seeking Patterns of Topics Related to Obesity: Google Trends Analysis. *JMIR Public Health and Surveillance*, **2020**, 6, e20923	11.4	4
90	In a Phase 1a escalating clinical trial, autologous mesenchymal stem cell infusion for renovascular disease increases blood flow and the glomerular filtration rate while reducing inflammatory biomarkers and blood pressure. *Kidney International*, **2020**, 97, 793-804	9.9	21
89	Renal fibrosis detected by diffusion-weighted magnetic resonance imaging remains unchanged despite treatment in subjects with renovascular disease. *Scientific Reports*, **2020**, 10, 16300	4.9	4
88	Metabolic syndrome increases senescence-associated micro-RNAs in extracellular vesicles derived from swine and human mesenchymal stem/stromal cells. *Cell Communication and Signaling*, **2020**, 18, 124	7.5	14
87	Efficacy of Rituximab and Plasma Exchange in Antineutrophil Cytoplasmic Antibody-Associated Vasculitis with Severe Kidney Disease. *Journal of the American Society of Nephrology: JASN*, **2020**, 31, 2688-2704	12.7	20
86	Renovascular disease induces mitochondrial damage in swine scattered tubular cells. *American Journal of Physiology - Renal Physiology*, **2019**, 317, F1142-F1153	4.3	13

85	Metabolic Syndrome Interferes with Packaging of Proteins within Porcine Mesenchymal Stem Cell-Derived Extracellular Vesicles. *Stem Cells Translational Medicine*, **2019**, 8, 430-440	6.9	14
84	Impact of Serum Uric Acid Levels on Outcomes following Renal Artery Revascularization in Patients with Renovascular Disease. *International Journal of Hypertension*, **2019**, 2019, 3872065	2.4	3
83	Renal Adiposity Does not Preclude Quantitative Assessment of Renal Function Using Dual-Energy Multidetector CT in Mildly Obese Human Subjects. *Academic Radiology*, **2019**, 26, 1488-1494	4.3	5
82	Early podocyte injury and elevated levels of urinary podocyte-derived extracellular vesicles in swine with metabolic syndrome: role of podocyte mitochondria. *American Journal of Physiology - Renal Physiology*, **2019**, 317, F12-F22	4.3	14
81	Tissue hypoxia, inflammation, and loss of glomerular filtration rate in human atherosclerotic renovascular disease. *Kidney International*, **2019**, 95, 948-957	9.9	16
80	Animal Models of Hypertension: A Scientific Statement From the American Heart Association. *Hypertension*, **2019**, 73, e87-e120	8.5	101
79	Alterations in genetic and protein content of swine adipose tissue-derived mesenchymal stem cells in the metabolic syndrome. *Stem Cell Research*, **2019**, 37, 101423	1.6	12
78	Senescent Kidney Cells in Hypertensive Patients Release Urinary Extracellular Vesicles. *Journal of the American Heart Association*, **2019**, 8, e012584	6	19
77	Metabolic Syndrome Induces Release of Smaller Extracellular Vesicles from Porcine Mesenchymal Stem Cells. *Cell Transplantation*, **2019**, 28, 1271-1278	4	14
76	Renal Artery Stenosis Alters Gene Expression in Swine Scattered Tubular-Like Cells. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	4
75	Stem cell-derived extracellular vesicles for renal repair: do cardiovascular comorbidities matter?. *American Journal of Physiology - Renal Physiology*, **2019**, 317, F1414-F1419	4.3	3
74	Mitochondrial Protection Partly Mitigates Kidney Cellular Senescence in Swine Atherosclerotic Renal Artery Stenosis. *Cellular Physiology and Biochemistry*, **2019**, 52, 617-632	3.9	22
73	Metabolic Syndrome Blunts the Capacity of Mesenchymal Stem Cell-Derived Extracellular Vesicles to Preserve the Post-Stenotic Kidney in Swine Renal Artery Stenosis. *FASEB Journal*, **2019**, 33, 835.8	0.9	
72	Mitochondrial Dysfunction in Chronic Kidney Disease **2019**, 93-102		
71	Senescence marker activin A is increased in human diabetic kidney disease: association with kidney function and potential implications for therapy. *BMJ Open Diabetes Research and Care*, **2019**, 7, e000720	4.5	23
70	Coexisting renal artery stenosis and metabolic syndrome magnifies mitochondrial damage, aggravating poststenotic kidney injury in pigs. *Journal of Hypertension*, **2019**, 37, 2061-2073	1.9	14
69	Novel therapeutic strategies for renovascular disease. *Current Opinion in Nephrology and Hypertension*, **2019**, 28, 383-389	3.5	6
68	Metabolic Syndrome Modulates Protein Import into the Mitochondria of Porcine Mesenchymal Stem Cells. *Stem Cell Reviews and Reports*, **2019**, 15, 427-438	6.4	8

67	Mesenchymal Stem CellBased Therapy for Chronic Kidney Disease **2019**, 275-296		
66	Mitoprotection attenuates myocardial vascular impairment in porcine metabolic syndrome. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 314, H669-H680	5.2	10
65	Mitochondrial targeted peptides preserve mitochondrial organization and decrease reversible myocardial changes in early swine metabolic syndrome. *Cardiovascular Research*, **2018**, 114, 431-442	9.9	16
64	Mitoprotection preserves the renal vasculature in porcine metabolic syndrome. *Experimental Physiology*, **2018**, 103, 1020-1029	2.4	12
63	Intrarenal fat deposition does not interfere with the measurement of single-kidney perfusion in obese swine using multi-detector computed tomography. *Journal of Cardiovascular Computed Tomography*, **2018**, 12, 149-152	2.8	9
62	Preserved endothelial progenitor cell angiogenic activity in African American essential hypertensive patients. *Nephrology Dialysis Transplantation*, **2018**, 33, 392-401	4.3	4
61	The metabolic syndrome alters the miRNA signature of porcine adipose tissue-derived mesenchymal stem cells. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2018**, 93, 93-103	4.6	38
60	Enhancing Mitochondrial Health to Treat Hypertension. *Current Hypertension Reports*, **2018**, 20, 89	4.7	12
59	Metabolic syndrome alters expression of insulin signaling-related genes in swine mesenchymal stem cells. *Gene*, **2018**, 644, 101-106	3.8	12
58	Obesity-induced mitochondrial dysfunction in porcine adipose tissue-derived mesenchymal stem cells. *Journal of Cellular Physiology*, **2018**, 233, 5926-5936	7	22
57	Loss of Renal Peritubular Capillaries in Hypertensive Patients Is Detectable by Urinary Endothelial Microparticle Levels. *Hypertension*, **2018**, 72, 1180-1188	8.5	32
56	Emerging Paradigms in Chronic Kidney Ischemia. *Hypertension*, **2018**, 72, 1023-1030	8.5	13
55	The metabolic syndrome modifies the mRNA expression profile of extracellular vesicles derived from porcine mesenchymal stem cells. *Diabetology and Metabolic Syndrome*, **2018**, 10, 58	5.6	26
54	Mesenchymal Stem Cell-Derived Extracellular Vesicles Improve the Renal Microvasculature in Metabolic Renovascular Disease in Swine. *Cell Transplantation*, **2018**, 27, 1080-1095	4	54
53	Mesenchymal stem cell-derived extracellular vesicles attenuate kidney inflammation. *Kidney International*, **2017**, 92, 114-124	9.9	174
52	The metabolic syndrome induces early changes in the swine renal medullary mitochondria. *Translational Research*, **2017**, 184, 45-56.e9	11	23
51	Phase 2a Clinical Trial of Mitochondrial Protection (Elamipretide) During Stent Revascularization in Patients With Atherosclerotic Renal Artery Stenosis. *Circulation: Cardiovascular Interventions*, **2017**, 10,	6	54
50	Integrated transcriptomic and proteomic analysis of the molecular cargo of extracellular vesicles derived from porcine adipose tissue-derived mesenchymal stem cells. *PLoS ONE*, **2017**, 12, e0174303	3.7	63

49	Mesenchymal Stem Cell-derived Extracellular Vesicles for Renal Repair. *Current Gene Therapy*, **2017**, 17, 29-42	4.3	69
48	The Emerging Role of Mitochondrial Targeting in Kidney Disease. *Handbook of Experimental Pharmacology*, **2017**, 240, 229-250	3.2	48
47	Glomerular Hyperfiltration in Obese African American Hypertensive Patients Is Associated With Elevated Urinary Mitochondrial-DNA Copy Number. *American Journal of Hypertension*, **2017**, 30, 1112-1119	2.3	17
46	Mesenchymal stem cell-derived extracellular vesicles for kidney repair: current status and looming challenges. *Stem Cell Research and Therapy*, **2017**, 8, 273	8.3	102
45	Perirenal Fat Promotes Renal Arterial Endothelial Dysfunction in Obese Swine through Tumor Necrosis Factor- *Journal of Urology*, **2016**, 195, 1152-9	2.5	34
44	Comparative proteomic analysis of extracellular vesicles isolated from porcine adipose tissue-derived mesenchymal stem/stromal cells. *Scientific Reports*, **2016**, 6, 36120	4.9	91
43	Role of Renal Sinus Adipose Tissue in Obesity-induced Renal Injury. *EBioMedicine*, **2016**, 13, 21-22	8.8	6
42	Functional Plasticity of Adipose-Derived Stromal Cells During Development of Obesity. *Stem Cells Translational Medicine*, **2016**, 5, 893-900	6.9	36
41	Restoration of Mitochondrial Cardiolipin Attenuates Cardiac Damage in Swine Renovascular Hypertension. *Journal of the American Heart Association*, **2016**, 5,	6	42
40	Urinary Mitochondrial DNA Copy Number Identifies Chronic Renal Injury in Hypertensive Patients. *Hypertension*, **2016**, 68, 401-10	8.5	50
39	Hypercholesterolemia Impairs Nonstenotic Kidney Outcomes After Reversal of Experimental Renovascular Hypertension. *American Journal of Hypertension*, **2016**, 29, 853-9	2.3	3
38	Differences in GFR and Tissue Oxygenation, and Interactions between Stenotic and Contralateral Kidneys in Unilateral Atherosclerotic Renovascular Disease. *Clinical Journal of the American Society of Nephrology: CJASN*, **2016**, 11, 458-69	6.9	19
37	Early atherosclerosis aggravates renal microvascular loss and fibrosis in swine renal artery stenosis. *Journal of the American Society of Hypertension*, **2016**, 10, 325-35		14
36	Emerging concepts for patients with treatment-resistant hypertension. *Trends in Cardiovascular Medicine*, **2016**, 26, 700-706	6.9	9
35	Challenges and opportunities for stem cell therapy in patients with chronic kidney disease. *Kidney International*, **2016**, 89, 767-78	9.9	67
34	Cardiac metabolic alterations in hypertensive obese pigs. *Hypertension*, **2015**, 66, 430-6	8.5	25
33	Histiocytic glomerulopathy associated with macrophage activation syndrome. *CKJ: Clinical Kidney Journal*, **2015**, 8, 157-60	4.5	8
32	Biomarkers of kidney injury and klotho in patients with atherosclerotic renovascular disease. *Clinical Journal of the American Society of Nephrology: CJASN*, **2015**, 10, 443-51	6.9	30

31	Experimental coronary artery stenosis accelerates kidney damage in renovascular hypertensive swine. *Kidney International*, **2015**, 87, 719-27	9.9	10
30	Mitochondria: a pathogenic paradigm in hypertensive renal disease. *Hypertension*, **2015**, 65, 264-70	8.5	48
29	Renal Vein Levels of MicroRNA-26a Are Lower in the Poststenotic Kidney. *Journal of the American Society of Nephrology: JASN*, **2015**, 26, 1378-88	12.7	21
28	Intrarenal Delivery of Mesenchymal Stem Cells and Endothelial Progenitor Cells Attenuates Hypertensive Cardiomyopathy in Experimental Renovascular Hypertension. *Cell Transplantation*, **2015**, 24, 2041-53	4	33
27	Intra-renal delivery of mesenchymal stem cells attenuates myocardial injury after reversal of hypertension in porcine renovascular disease. *Stem Cell Research and Therapy*, **2015**, 6, 7	8.3	35
26	Adipose tissue remodeling in a novel domestic porcine model of diet-induced obesity. *Obesity*, **2015**, 23, 399-407	8	58
25	Mitochondrial protection restores renal function in swine atherosclerotic renovascular disease. *Cardiovascular Research*, **2014**, 103, 461-72	9.9	84
24	MicroRNA and mRNA cargo of extracellular vesicles from porcine adipose tissue-derived mesenchymal stem cells. *Gene*, **2014**, 551, 55-64	3.8	193
23	Extrarenal atherosclerotic disease blunts renal recovery in patients with renovascular hypertension. *Journal of Hypertension*, **2014**, 32, 1300-6	1.9	11
22	Mitochondrial targeted peptides attenuate residual myocardial damage after reversal of experimental renovascular hypertension. *Journal of Hypertension*, **2014**, 32, 154-65	1.9	42
21	Obesity-metabolic derangement exacerbates cardiomyocyte loss distal to moderate coronary artery stenosis in pigs without affecting global cardiac function. *American Journal of Physiology - Heart and Circulatory Physiology*, **2014**, 306, H1087-101	5.2	18
20	Renal vein cytokine release as an index of renal parenchymal inflammation in chronic experimental renal artery stenosis. *Nephrology Dialysis Transplantation*, **2014**, 29, 274-82	4.3	39
19	Mitochondrial injury and dysfunction in hypertension-induced cardiac damage. *European Heart Journal*, **2014**, 35, 3258-66	9.5	42
18	Cardiac function in renovascular hypertensive patients with and without renal dysfunction. *American Journal of Hypertension*, **2014**, 27, 445-53	2.3	17
17	Inflammatory and injury signals released from the post-stenotic human kidney. *European Heart Journal*, **2013**, 34, 540-548a	9.5	76
16	Obesity-metabolic derangement preserves hemodynamics but promotes intrarenal adiposity and macrophage infiltration in swine renovascular disease. *American Journal of Physiology - Renal Physiology*, **2013**, 305, F265-76	4.3	38
15	Increased circulating inflammatory endothelial cells in blacks with essential hypertension. *Hypertension*, **2013**, 62, 585-91	8.5	22
14	Endothelial outgrowth cells shift macrophage phenotype and improve kidney viability in swine renal artery stenosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 1006-13	9.4	44

13	Darkness at the end of the tunnel: poststenotic kidney injury. *Physiology*, **2013**, 28, 245-53	9.8	17
12	Stent revascularization restores cortical blood flow and reverses tissue hypoxia in atherosclerotic renal artery stenosis but fails to reverse inflammatory pathways or glomerular filtration rate. *Circulation: Cardiovascular Interventions*, **2013**, 6, 428-35	6	60
11	Angiotensin receptor blockade has protective effects on the poststenotic porcine kidney. *Kidney International*, **2013**, 84, 767-75	9.9	20
10	Magnetic resonance elastography noninvasively detects in vivo renal medullary fibrosis secondary to swine renal artery stenosis. *Investigative Radiology*, **2013**, 48, 61-8	10.1	57
9	Mesenchymal stem cells improve medullary inflammation and fibrosis after revascularization of swine atherosclerotic renal artery stenosis. *PLoS ONE*, **2013**, 8, e67474	3.7	82
8	Intravenous infusion of Bendavia during renal revascularization attenuates cardiac injury and dysfunction in swine renovascular hypertension (RVH). *FASEB Journal*, **2013**, 27, 1131.14	0.9	
7	Adipose tissue-derived mesenchymal stem cells improve revascularization outcomes to restore renal function in swine atherosclerotic renal artery stenosis. *Stem Cells*, **2012**, 30, 1030-41	5.8	175
6	Changes in glomerular filtration rate after renal revascularization correlate with microvascular hemodynamics and inflammation in Swine renal artery stenosis. *Circulation: Cardiovascular Interventions*, **2012**, 5, 720-8	6	57
5	Chronic renovascular hypertension is associated with elevated levels of neutrophil gelatinase-associated lipocalin. *Nephrology Dialysis Transplantation*, **2012**, 27, 4153-61	4.3	50
4	Clinical features of patients with immunoglobulin light chain amyloidosis (AL) with vascular-limited deposition in the kidney. *Nephrology Dialysis Transplantation*, **2012**, 27, 1097-101	4.3	47
3	A mitochondrial permeability transition pore inhibitor improves renal outcomes after revascularization in experimental atherosclerotic renal artery stenosis. *Hypertension*, **2012**, 60, 1242-9	8.5	99
2	Magnetic resonance elastography (MRE) detects medullary renal fibrosis. *FASEB Journal*, **2012**, 26, 523.3	0.9	
1	Persistent kidney dysfunction in swine renal artery stenosis correlates with outer cortical microvascular remodeling. *American Journal of Physiology - Renal Physiology*, **2011**, 300, F1394-401	4.3	68