

Jean-Francois Arnal

List of Publications by Citations

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112
papers

4,883
citations

37
h-index

66
g-index

118
ext. papers

5,667
ext. citations

6.5
avg, IF

4.92
L-index

#	Paper	IF	Citations
112	Estrogens protect against high-fat diet-induced insulin resistance and glucose intolerance in mice. <i>Endocrinology</i> , 2009 , 150, 2109-17	4.8	302
111	Quality of life in sarcopenia and frailty. <i>Calcified Tissue International</i> , 2013 , 93, 101-20	3.9	235
110	The TLR-mediated response of plasmacytoid dendritic cells is positively regulated by estradiol in vivo through cell-intrinsic estrogen receptor signaling. <i>Blood</i> , 2012 , 119, 454-64	2.2	194
109	Membrane and Nuclear Estrogen Receptor Alpha Actions: From Tissue Specificity to Medical Implications. <i>Physiological Reviews</i> , 2017 , 97, 1045-1087	47.9	183
108	Mutation of the palmitoylation site of estrogen receptor α in vivo reveals tissue-specific roles for membrane versus nuclear actions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E283-90	11.5	179
107	Sustained increase in aortic endothelial nitric oxide synthase expression in vivo in a model of chronic high blood flow. <i>Circulation Research</i> , 1996 , 79, 857-63	15.7	166
106	17Beta-estradiol promotes TLR4-triggered proinflammatory mediator production through direct estrogen receptor alpha signaling in macrophages in vivo. <i>Journal of Immunology</i> , 2010 , 185, 1169-76	5.3	163
105	Toll-like receptors 2-deficient mice are protected against postischemic coronary endothelial dysfunction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 1064-71	9.4	159
104	Estrogen receptors and endothelium. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010 , 30, 1506-12	12.4	143
103	Chronic estradiol administration in vivo promotes the proinflammatory response of macrophages to TLR4 activation: involvement of the phosphatidylinositol 3-kinase pathway. <i>Journal of Immunology</i> , 2008 , 180, 7980-8	5.3	123
102	Relevance of sexual dimorphism to regulatory T cells: estradiol promotes IFN-gamma production by invariant natural killer T cells. <i>Blood</i> , 2005 , 105, 2415-20	2.2	116
101	Genetic and pharmacological targeting of phosphoinositide 3-kinase-gamma reduces atherosclerosis and favors plaque stability by modulating inflammatory processes. <i>Circulation</i> , 2008 , 117, 1310-7	16.7	110
100	The transactivating function 1 of estrogen receptor alpha is dispensable for the vasculoprotective actions of 17beta-estradiol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2053-8	11.5	99
99	Detection of superoxide anion released extracellularly by endothelial cells using cytochrome c reduction, ESR, fluorescence and lucigenin-enhanced chemiluminescence techniques. <i>Free Radical Biology and Medicine</i> , 2000 , 29, 388-96	7.8	99
98	Activation function 2 (AF2) of estrogen receptor-alpha is required for the atheroprotective action of estradiol but not to accelerate endothelial healing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 13311-6	11.5	96
97	Deleting TCR alpha beta+ or CD4+ T lymphocytes leads to opposite effects on site-specific atherosclerosis in female apolipoprotein E-deficient mice. <i>American Journal of Pathology</i> , 2004 , 165, 2013-8	5.8	94
96	Estrogen receptor alpha as a key target of red wine polyphenols action on the endothelium. <i>PLoS ONE</i> , 2010 , 5, e8554	3.7	85

95	Sex in basic research: concepts in the cardiovascular field. <i>Cardiovascular Research</i> , 2017 , 113, 711-724	9.9	77
94	Endothelial estrogen receptor-alpha plays a crucial role in the atheroprotective action of 17beta-estradiol in low-density lipoprotein receptor-deficient mice. <i>Circulation</i> , 2009 , 120, 2567-76	16.7	76
93	Stromal estrogen receptor- β promotes tumor growth by normalizing an increased angiogenesis. <i>Cancer Research</i> , 2012 , 72, 3010-9	10.1	75
92	Role of human smooth muscle cell progenitors in atherosclerotic plaque development and composition. <i>Cardiovascular Research</i> , 2008 , 77, 471-80	9.9	73
91	Prevention of obesity and insulin resistance by estrogens requires ER β activation function-2 (ERAF-2), whereas ERAF-1 is dispensable. <i>Diabetes</i> , 2013 , 62, 4098-108	0.9	64
90	Estradiol promotes functional responses in inflammatory and steady-state dendritic cells through differential requirement for activation function-1 of estrogen receptor β <i>Journal of Immunology</i> , 2013 , 190, 5459-70	5.3	63
89	The uterine and vascular actions of estetrol delineate a distinctive profile of estrogen receptor β modulation, uncoupling nuclear and membrane activation. <i>EMBO Molecular Medicine</i> , 2014 , 6, 1328-46	12	59
88	Endothelial estrogen receptor {alpha} plays an essential role in the coronary and myocardial protective effects of estradiol in ischemia/reperfusion. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010 , 30, 2562-7	9.4	57
87	Timing of the vascular actions of estrogens in experimental and human studies: why protective early, and not when delayed?. <i>Maturitas</i> , 2011 , 68, 165-73	5	55
86	Estrogens in vascular biology and disease: where do we stand today?. <i>Current Opinion in Lipidology</i> , 2007 , 18, 554-60	4.4	55
85	FGF2 translationally induced by hypoxia is involved in negative and positive feedback loops with HIF-1alpha. <i>PLoS ONE</i> , 2008 , 3, e3078	3.7	53
84	The AF-1 activation function of estrogen receptor β is necessary and sufficient for uterine epithelial cell proliferation in vivo. <i>Endocrinology</i> , 2013 , 154, 2222-33	4.8	52
83	Correction of RT-qPCR data for genomic DNA-derived signals with ValidPrime. <i>Nucleic Acids Research</i> , 2012 , 40, e51	20.1	51
82	High-fat diet induces periodontitis in mice through lipopolysaccharides (LPS) receptor signaling: protective action of estrogens. <i>PLoS ONE</i> , 2012 , 7, e48220	3.7	49
81	Prevention of skin flap necrosis by estradiol involves reperfusion of a protected vascular network. <i>Circulation Research</i> , 2009 , 104, 245-54, 12p following 254	15.7	45
80	Physiologic and pathologic changes of platelets in pregnancy. <i>Platelets</i> , 2010 , 21, 587-95	3.6	43
79	Osteopontin expression in cardiomyocytes induces dilated cardiomyopathy. <i>Circulation: Heart Failure</i> , 2010 , 3, 431-9	7.6	41
78	Estrogen receptor alpha expression in both endothelium and hematopoietic cells is required for the accelerative effect of estradiol on reendothelialization. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 1543-50	9.4	41

77	Chronic estradiol treatment reduces platelet responses and protects mice from thromboembolism through the hematopoietic estrogen receptor α . <i>Blood</i> , 2012 , 120, 1703-12	2.2	37
76	Essential role of bone marrow fibroblast growth factor-2 in the effect of estradiol on reendothelialization and endothelial progenitor cell mobilization. <i>American Journal of Pathology</i> , 2006 , 169, 1855-62	5.8	37
75	The AF-1-deficient estrogen receptor ER α 6 isoform is frequently expressed in human breast tumors. <i>Breast Cancer Research</i> , 2016 , 18, 123	8.3	36
74	Lessons from the dissection of the activation functions (AF-1 and AF-2) of the estrogen receptor alpha in vivo. <i>Steroids</i> , 2013 , 78, 576-82	2.8	36
73	The Activation Function-1 of Estrogen Receptor Alpha Prevents Arterial Neointima Development Through a Direct Effect on Smooth Muscle Cells. <i>Circulation Research</i> , 2015 , 117, 770-8	15.7	35
72	Associations between hepatic miRNA expression, liver triacylglycerols and gut microbiota during metabolic adaptation to high-fat diet in mice. <i>Diabetologia</i> , 2017 , 60, 690-700	10.3	34
71	Estradiol accelerates endothelial healing through the retrograde commitment of uninjured endothelium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H2822-30	5.2	30
70	Microparticles from apoptotic vascular smooth muscle cells induce endothelial dysfunction, a phenomenon prevented by beta3-integrin antagonists. <i>Thrombosis and Haemostasis</i> , 2005 , 94, 853-8	7	30
69	Nitric oxide in the pathogenesis of hypertension. <i>Current Opinion in Nephrology and Hypertension</i> , 1995 , 4, 182-8	3.5	30
68	Determinants of flow-mediated outward remodeling in female rodents: respective roles of age, estrogens, and timing. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 1281-9	9.4	29
67	Predominant Role of Nuclear Versus Membrane Estrogen Receptor α in Arterial Protection: Implications for Estrogen Receptor α Modulation in Cardiovascular Prevention/Safety. <i>Journal of the American Heart Association</i> , 2018 , 7,	6	29
66	Selective Activation of Estrogen Receptor α Activation Function-1 Is Sufficient to Prevent Obesity, Steatosis, and Insulin Resistance in Mouse. <i>American Journal of Pathology</i> , 2017 , 187, 1273-1287	5.8	28
65	Estrogen receptor subcellular localization and cardiometabolism. <i>Molecular Metabolism</i> , 2018 , 15, 56-69	8.8	28
64	Association of neutrophil count with microembolization in patients with symptomatic carotid artery stenosis. <i>Atherosclerosis</i> , 2009 , 207, 519-23	3.1	27
63	Loss of atheroprotective effect of estradiol in immunodeficient mice. <i>Endocrinology</i> , 2000 , 141, 462-5	4.8	27
62	Combined estrogenic and anti-estrogenic properties of estetrol on breast cancer may provide a safe therapeutic window for the treatment of menopausal symptoms. <i>Oncotarget</i> , 2015 , 6, 17621-36	3.3	26
61	Hyperglycemia upregulates translation of the fibroblast growth factor 2 mRNA in mouse aorta via internal ribosome entry site. <i>FASEB Journal</i> , 2004 , 18, 1583-5	0.9	26
60	The estrogen effects on endothelial repair and mitogen-activated protein kinase activation are abolished in endothelial nitric-oxide (NO) synthase knockout mice, but not by NO synthase inhibition by N-nitro-L-arginine methyl ester. <i>American Journal of Pathology</i> , 2008 , 172, 830-8	5.8	24

59	Essential thrombocythemia and pregnancy. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2011 , 158, 141-7	2.4	23
58	Effect of treatment on maxillary sinus and nasal nitric oxide concentrations in patients with nosocomial maxillary sinusitis. <i>Chest</i> , 2005 , 128, 1699-705	5.3	23
57	Tamoxifen elicits atheroprotection through estrogen receptor α -1 but does not accelerate reendothelialization. <i>American Journal of Pathology</i> , 2013 , 183, 304-12	5.8	20
56	IRES-based vector coexpressing FGF2 and Cyr61 provides synergistic and safe therapeutics of lower limb ischemia. <i>Molecular Therapy</i> , 2009 , 17, 2010-9	11.7	20
55	Estradiol increases urethral tone through the local inhibition of neuronal nitric oxide synthase expression. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 294, R851-7	3.2	20
54	Changes in Gene Expression and Estrogen Receptor Cistrome in Mouse Liver Upon Acute E2 Treatment. <i>Molecular Endocrinology</i> , 2016 , 30, 709-32		19
53	Impact of chronic obstructive pulmonary disease severity on symptoms and prognosis in patients with systolic heart failure. <i>Clinical Research in Cardiology</i> , 2012 , 101, 717-26	6.1	19
52	Expression of nitric oxide synthases in primary ciliary dyskinesia. <i>Human Pathology</i> , 2011 , 42, 1855-61	3.7	19
51	Estradiol administration controls eosinophilia through estrogen receptor- α activation during acute peritoneal inflammation. <i>Journal of Leukocyte Biology</i> , 2011 , 90, 145-54	6.5	19
50	Electron spin resonance detection of extracellular superoxide anion released by cultured endothelial cells. <i>Free Radical Research</i> , 1998 , 29, 441-9	4	19
49	Nasal polyp-derived superoxide anion: dose-dependent inhibition by nitric oxide and pathophysiological implications. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001 , 163, 145-51	10.2	19
48	Estrogen-stimulated endothelial repair requires osteopontin. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 2131-6	9.4	18
47	The atheroprotective effect of 17 β -estradiol depends on complex interactions in adaptive immunity. <i>American Journal of Pathology</i> , 2005 , 167, 267-74	5.8	18
46	Role of ER α in the Effect of Estradiol on Cancellous and Cortical Femoral Bone in Growing Female Mice. <i>Endocrinology</i> , 2016 , 157, 2533-44	4.8	17
45	High frequency of endothelial vasomotor dysfunction after acute coronary syndromes in non-culprit and angiographically normal coronary arteries: a reversible phenomenon. <i>Atherosclerosis</i> , 2005 , 181, 311-9	3.1	17
44	From the Women's Health Initiative to the combination of estrogen and selective estrogen receptor modulators to avoid progestin addition. <i>Maturitas</i> , 2015 , 82, 274-7	5	16
43	Mutation of Arginine 264 on ER α (Estrogen Receptor Alpha) Selectively Abrogates the Rapid Signaling of Estradiol in the Endothelium Without Altering Fertility. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020 , 40, 2143-2158	9.4	16
42	Estetrol, a Fetal Selective Estrogen Receptor Modulator, Acts on the Vagina of Mice through Nuclear Estrogen Receptor α Activation. <i>American Journal of Pathology</i> , 2017 , 187, 2499-2507	5.8	16

41	Long term expression of bicistronic vector driven by the FGF-1 IRES in mouse muscle. <i>BMC Biotechnology</i> , 2007 , 7, 74	3.5	16
40	Role for the membrane estrogen receptor alpha in the sexual differentiation of the brain. <i>European Journal of Neuroscience</i> , 2020 , 52, 2627-2645	3.5	16
39	Selective Liver Estrogen Receptor α Modulation Prevents Steatosis, Diabetes, and Obesity Through the Anorectic Growth Differentiation Factor 15 Hepatokine in Mice. <i>Hepatology Communications</i> , 2019 , 3, 908-924	6	15
38	Estrogen Therapy Delays Autoimmune Diabetes and Promotes the Protective Efficiency of Natural Killer T-Cell Activation in Female Nonobese Diabetic Mice. <i>Endocrinology</i> , 2016 , 157, 258-67	4.8	15
37	Effect of estetrol, a selective nuclear estrogen receptor modulator, in mouse models of arterial and venous thrombosis. <i>Molecular and Cellular Endocrinology</i> , 2018 , 477, 132-139	4.4	15
36	Atrial natriuretic factor influences in vivo plasma, lung and aortic wall cGMP concentrations differently. <i>European Journal of Pharmacology</i> , 1993 , 237, 265-73	5.3	15
35	Repression of the estrogen receptor-alpha transcriptional activity by the Rho/megakaryoblastic leukemia 1 signaling pathway. <i>Journal of Biological Chemistry</i> , 2009 , 284, 33729-39	5.4	14
34	Towards optimization of estrogen receptor modulation in medicine. <i>Pharmacology & Therapeutics</i> , 2018 , 189, 123-129	13.9	13
33	From in vivo gene targeting of oestrogen receptors to optimization of their modulation in menopause. <i>British Journal of Pharmacology</i> , 2012 , 165, 57-66	8.6	13
32	Nuclear Activation Function 2 Estrogen Receptor α Attenuates Arterial and Renal Alterations Due to Aging and Hypertension in Female Mice. <i>Journal of the American Heart Association</i> , 2020 , 9, e013895	6	12
31	Transforming growth factor activity is a key determinant for the effect of estradiol on fatty streak deposit in hypercholesterolemic mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 2214-21	9.4	12
30	Atorvastatin-induced increase in progenitor cell levels is rather caused by enhanced receptor activator of NF-kappaB ligand (RANKL) cell proliferation than by bone marrow mobilization. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 57, 32-42	5.8	11
29	Structure-function relationship of estrogen receptors in cardiovascular pathophysiological models. <i>Thrombosis Research</i> , 2012 , 130 Suppl 1, S7-11	8.2	11
28	$^{17}\beta$ estradiol promotes acute refeeding in hungry mice via membrane-initiated ER α signaling. <i>Molecular Metabolism</i> , 2020 , 42, 101053	8.8	11
27	Vasculoprotective effects of oestrogens. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2001 , 28, 1032-4	3	10
26	Hyperproliferation of aortic smooth muscle cells and fibroblasts from young SHR rats is not shared by endothelial cells. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1994 , 21, 981-9	3	10
25	Testosterone Prevents Cutaneous Ischemia and Necrosis in Males Through Complementary Estrogenic and Androgenic Actions. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017 , 37, 909-919	9.4	9
24	Effect of chronic estradiol plus progesterone treatment on experimental arterial and venous thrombosis in mouse. <i>PLoS ONE</i> , 2017 , 12, e0177043	3.7	9

23	In vivo dissection of the estrogen receptor alpha: uncoupling of its physiological effects and medical perspectives. <i>Annales D'endocrinologie</i> , 2013 , 74, 82-9	1.7	9
22	Nuclear and Membrane Actions of Estrogen Receptor Alpha: Contribution to the Regulation of Energy and Glucose Homeostasis. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 1043, 401-426	3.6	8
21	Failure of L-nitroarginine to inhibit the activity of aortic inducible nitric oxide synthase. <i>Journal of Vascular Research</i> , 2001 , 38, 266-75	1.9	8
20	Effect of perindopril in rat cardiac volume overload. <i>American Heart Journal</i> , 1993 , 126, 776-82	4.9	8
19	Protective Hematopoietic Effect of Estrogens in a Mouse Model of Thrombosis: Respective Roles of Nuclear Versus Membrane Estrogen Receptor α . <i>Endocrinology</i> , 2015 , 156, 4293-301	4.8	7
18	The transcriptional activities and cellular localization of the human estrogen receptor alpha are affected by the synonymous Ala87 mutation. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2014 , 143, 99-104	5.1	7
17	Vaginal lubrication after cervicovaginal stimulation is facilitated by phosphodiesterase type 5 inhibition in ovariectomized mice. <i>Journal of Sexual Medicine</i> , 2013 , 10, 1452-60	1.1	7
16	The tissue-specific effects of different 17 β -estradiol doses reveal the key sensitizing role of AF1 domain in ER α activity. <i>Molecular and Cellular Endocrinology</i> , 2020 , 505, 110741	4.4	7
15	Respective role of membrane and nuclear estrogen receptor (ER) α in the mandible of growing mice: Implications for ER α modulation. <i>Journal of Bone and Mineral Research</i> , 2018 , 33, 1520-1531	6.3	6
14	Tamoxifen Accelerates Endothelial Healing by Targeting ER α in Smooth Muscle Cells. <i>Circulation Research</i> , 2020 , 127, 1473-1487	15.7	6
13	Platelet Adhesion and Thrombus Formation in Whole Blood at Arterial Shear Rate at the End of Pregnancy. <i>American Journal of Reproductive Immunology</i> , 2015 , 74, 533-41	3.8	5
12	Improvement after lung volume reduction surgery: a role for inspiratory muscle adaptation. <i>Respiratory Physiology and Neurobiology</i> , 2004 , 139, 293-301	2.8	5
11	The antagonist properties of Bazedoxifene after acute treatment are shifted to stimulatory action after chronic exposure in the liver but not in the uterus. <i>Molecular and Cellular Endocrinology</i> , 2018 , 472, 87-96	4.4	4
10	Alteration in endothelial estrogen receptor expression: a potential key of vasculoprotection by estrogens?. <i>Circulation Research</i> , 2002 , 91, 759-60	15.7	4
9	Resveratrol Improved Flow-Mediated Outward Arterial Remodeling in Ovariectomized Rats with Hypertrophic Effect at High Dose. <i>PLoS ONE</i> , 2016 , 11, e0146148	3.7	4
8	Estetrol prevents Western diet-induced obesity and atheroma independently of hepatic estrogen receptor α . <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021 , 320, E19-E29	6	4
7	Membrane estrogen receptor alpha (ER α) participates in flow-mediated dilation in a ligand-independent manner. <i>ELife</i> , 2021 , 10,	8.9	3
6	Versatile multicharacterization platform involving tailored superhydrophobic SU-8 micropillars for the investigation of breast cancer estrogen receptor isoforms. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016 , 34, 06K201	1.3	3

5	Influence of sildenafil on micturition and urethral tone in ovariectomized and non-ovariectomized mice. <i>Journal of Sexual Medicine</i> , 2012 , 9, 466-71	1.1	2
4	Estrogen Receptor and Vascular Aging. <i>Frontiers in Aging</i> , 2021 , 2,	2.5	2
3	A historical view of estrogen effect on arterial endothelial healing: From animal models to medical implication. <i>Atherosclerosis</i> , 2021 , 338, 30-38	3.1	1
2	Early Inactivation of Membrane Estrogen Receptor Alpha (ER β) Recapitulates the Endothelial Dysfunction of Aged Mouse Resistance Arteries.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	1
1	Segregation of nuclear and membrane-initiated actions of estrogen receptor using genetically modified animals and pharmacological tools. <i>Molecular and Cellular Endocrinology</i> , 2022 , 539, 111467	4.4	0