Jean-Franois Arnal

List of Publications by Year in Descending Order

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	Segregation of nuclear and membrane-initiated actions of estrogen receptor using genetically modified animals and pharmacological tools. *Molecular and Cellular Endocrinology*, **2022**, 539, 111467	4.4	0
111	Early Inactivation of Membrane Estrogen Receptor Alpha (ER) Recapitulates the Endothelial Dysfunction of Aged Mouse Resistance Arteries.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	1
110	A historical view of estrogen effect on arterial endothelial healing: From animal models to medical implication. *Atherosclerosis*, **2021**, 338, 30-38	3.1	1
109	Membrane estrogen receptor alpha (ER) participates in flow-mediated dilation in a ligand-independent manner. *ELife*, **2021**, 10,	8.9	3
108	Estetrol prevents Western diet-induced obesity and atheroma independently of hepatic estrogen receptor *American Journal of Physiology - Endocrinology and Metabolism*, **2021**, 320, E19-E29	6	4
107	Estrogen Receptor and Vascular Aging. *Frontiers in Aging*, **2021**, 2,	2.5	2
106	Mutation of Arginine 264 on ER (Estrogen Receptor Alpha) Selectively Abrogates the Rapid Signaling of Estradiol in the Endothelium Without Altering Fertility. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2020**, 40, 2143-2158	9.4	16
105	Nuclear Activation Function 2 Estrogen Receptor Attenuates Arterial and Renal Alterations Due to Aging and Hypertension in Female Mice. *Journal of the American Heart Association*, **2020**, 9, e013895	6	12
104	Role for the membrane estrogen receptor alpha in the sexual differentiation of the brain. *European Journal of Neuroscience*, **2020**, 52, 2627-2645	3.5	16
103	Tamoxifen Accelerates Endothelial Healing by Targeting ER in Smooth Muscle Cells. *Circulation Research*, **2020**, 127, 1473-1487	15.7	6
102	The tissue-specific effects of different 17 estradiol doses reveal the key sensitizing role of AF1 domain in ER activity. *Molecular and Cellular Endocrinology*, **2020**, 505, 110741	4.4	7
101	17 estradiol promotes acute refeeding in hungry mice via membrane-initiated ER signaling. *Molecular Metabolism*, **2020**, 42, 101053	8.8	11
100	Selective Liver Estrogen Receptor Modulation Prevents Steatosis, Diabetes, and Obesity Through the Anorectic Growth Differentiation Factor 15 Hepatokine in Mice. *Hepatology Communications*, **2019**, 3, 908-924	6	15
99	Respective role of membrane and nuclear estrogen receptor (ER) in the mandible of growing mice: Implications for ER modulation. *Journal of Bone and Mineral Research*, **2018**, 33, 1520-1531	6.3	6
98	The antagonist properties of Bazedoxifene after acute treatment are shifted to stimulatory action after chronic exposure in the liver but not in the uterus. *Molecular and Cellular Endocrinology*, **2018**, 472, 87-96	4.4	4
97	Towards optimization of estrogen receptor modulation in medicine. *Pharmacology & Therapeutics*, **2018**, 189, 123-129	13.9	13
96	Effect of estetrol, a selective nuclear estrogen receptor modulator, in mouse models of arterial and venous thrombosis. *Molecular and Cellular Endocrinology*, **2018**, 477, 132-139	4.4	15

95	Estrogen receptor subcellular localization and cardiometabolism. *Molecular Metabolism*, **2018**, 15, 56-69	8.8	28
94	Predominant Role of Nuclear Versus Membrane Estrogen Receptor In Arterial Protection: Implications for Estrogen Receptor Modulation in Cardiovascular Prevention/Safety. *Journal of the American Heart Association*, **2018**, 7,	6	29
93	Associations between hepatic miRNA expression, liver triacylglycerols and gut microbiota during metabolic adaptation to high-fat diet in mice. *Diabetologia*, **2017**, 60, 690-700	10.3	34
92	Selective Activation of Estrogen Receptor Activation Function-1 Is Sufficient to Prevent Obesity, Steatosis, and Insulin Resistance in Mouse. *American Journal of Pathology*, **2017**, 187, 1273-1287	5.8	28
91	Sex in basic research: concepts in the cardiovascular field. *Cardiovascular Research*, **2017**, 113, 711-724	9.9	77
90	Membrane and Nuclear Estrogen Receptor Alpha Actions: From Tissue Specificity to Medical Implications. *Physiological Reviews*, **2017**, 97, 1045-1087	47.9	183
89	Testosterone Prevents Cutaneous Ischemia and Necrosis in Males Through Complementary Estrogenic and Androgenic Actions. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2017**, 37, 909-919	9.4	9
88	Effect of chronic estradiol plus progesterone treatment on experimental arterial and venous thrombosis in mouse. *PLoS ONE*, **2017**, 12, e0177043	3.7	9
87	Estetrol, a Fetal Selective Estrogen Receptor Modulator, Acts on the Vagina of Mice through Nuclear Estrogen Receptor Activation. *American Journal of Pathology*, **2017**, 187, 2499-2507	5.8	16
86	Nuclear and Membrane Actions of Estrogen Receptor Alpha: Contribution to the Regulation of Energy and Glucose Homeostasis. *Advances in Experimental Medicine and Biology*, **2017**, 1043, 401-426	3.6	8
85	Role of ERMISS in the Effect of Estradiol on Cancellous and Cortical Femoral Bone in Growing Female Mice. *Endocrinology*, **2016**, 157, 2533-44	4.8	17
84	The AF-1-deficient estrogen receptor ER46 isoform is frequently expressed in human breast tumors. *Breast Cancer Research*, **2016**, 18, 123	8.3	36
83	Changes in Gene Expression and Estrogen Receptor Cistrome in Mouse Liver Upon Acute E2 Treatment. *Molecular Endocrinology*, **2016**, 30, 709-32		19
82	Estrogen Therapy Delays Autoimmune Diabetes and Promotes the Protective Efficiency of Natural Killer T-Cell Activation in Female Nonobese Diabetic Mice. *Endocrinology*, **2016**, 157, 258-67	4.8	15
81	Resveratrol Improved Flow-Mediated Outward Arterial Remodeling in Ovariectomized Rats with Hypertrophic Effect at High Dose. *PLoS ONE*, **2016**, 11, e0146148	3.7	4
80	Versatile multicharacterization platform involving tailored superhydrophobic SU-8 micropillars for the investigation of breast cancer estrogen receptor isoforms. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2016**, 34, 06K201	1.3	3
79	Protective Hematopoietic Effect of Estrogens in a Mouse Model of Thrombosis: Respective Roles of Nuclear Versus Membrane Estrogen Receptor *Endocrinology*, **2015**, 156, 4293-301	4.8	7
78	The Activation Function-1 of Estrogen Receptor Alpha Prevents Arterial Neointima Development Through a Direct Effect on Smooth Muscle Cells. *Circulation Research*, **2015**, 117, 770-8	15.7	35

77	From the Women's Health Initiative to the combination of estrogen and selective estrogen receptor modulators to avoid progestin addition. *Maturitas*, **2015**, 82, 274-7	5	16
76	Platelet Adhesion and Thrombus Formation in Whole Blood at Arterial Shear Rate at the End of Pregnancy. *American Journal of Reproductive Immunology*, **2015**, 74, 533-41	3.8	5
75	Combined estrogenic and anti-estrogenic properties of estetrol on breast cancer may provide a safe therapeutic window for the treatment of menopausal symptoms. *Oncotarget*, **2015**, 6, 17621-36	3.3	26
74	The transcriptional activities and cellular localization of the human estrogen receptor alpha are affected by the synonymous Ala87 mutation. *Journal of Steroid Biochemistry and Molecular Biology*, **2014**, 143, 99-104	5.1	7
73	Mutation of the palmitoylation site of estrogen receptor α in vivo reveals tissue-specific roles for membrane versus nuclear actions. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E283-90	11.5	179
72	The uterine and vascular actions of estetrol delineate a distinctive profile of estrogen receptor α modulation, uncoupling nuclear and membrane activation. *EMBO Molecular Medicine*, **2014**, 6, 1328-46	12	59
71	Determinants of flow-mediated outward remodeling in female rodents: respective roles of age, estrogens, and timing. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 1281-9	9.4	29
70	Prevention of obesity and insulin resistance by estrogens requires ERα activation function-2 (ERαAF-2), whereas ERαAF-1 is dispensable. *Diabetes*, **2013**, 62, 4098-108	0.9	64
69	Quality of life in sarcopenia and frailty. *Calcified Tissue International*, **2013**, 93, 101-20	3.9	235
68	In vivo dissection of the estrogen receptor alpha: uncoupling of its physiological effects and medical perspectives. *Annales D'Endocrinologie*, **2013**, 74, 82-9	1.7	9
67	Lessons from the dissection of the activation functions (AF-1 and AF-2) of the estrogen receptor alpha in vivo. *Steroids*, **2013**, 78, 576-82	2.8	36
66	Tamoxifen elicits atheroprotection through estrogen receptor αAF-1 but does not accelerate reendothelialization. *American Journal of Pathology*, **2013**, 183, 304-12	5.8	20
65	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. *Journal of Molecular and Cellular Cardiology*, **2013**, 57, 32-42	5.8	11
64	Vaginal lubrication after cervicovaginal stimulation is facilitated by phosphodiesterase type 5 inhibition in ovariectomized mice. *Journal of Sexual Medicine*, **2013**, 10, 1452-60	1.1	7
63	The AF-1 activation function of estrogen receptor α is necessary and sufficient for uterine epithelial cell proliferation in vivo. *Endocrinology*, **2013**, 154, 2222-33	4.8	52
62	Estradiol promotes functional responses in inflammatory and steady-state dendritic cells through differential requirement for activation function-1 of estrogen receptor α *Journal of Immunology*, **2013**, 190, 5459-70	5.3	63
61	Influence of sildenafil on micturition and urethral tone in ovariectomized and non-ovariectomized mice. *Journal of Sexual Medicine*, **2012**, 9, 466-71	1.1	2
60	The TLR-mediated response of plasmacytoid dendritic cells is positively regulated by estradiol in vivo through cell-intrinsic estrogen receptor α signaling. *Blood*, **2012**, 119, 454-64	2.2	194

59	Chronic estradiol treatment reduces platelet responses and protects mice from thromboembolism through the hematopoietic estrogen receptor □*Blood*, **2012**, 120, 1703-12	2.2	37
58	Impact of chronic obstructive pulmonary disease severity on symptoms and prognosis in patients with systolic heart failure. *Clinical Research in Cardiology*, **2012**, 101, 717-26	6.1	19
57	Structure-function relationship of estrogen receptors in cardiovascular pathophysiological models. *Thrombosis Research*, **2012**, 130 Suppl 1, S7-11	8.2	11
56	High-fat diet induces periodontitis in mice through lipopolysaccharides (LPS) receptor signaling: protective action of estrogens. *PLoS ONE*, **2012**, 7, e48220	3.7	49
55	Stromal estrogen receptor-□promotes tumor growth by normalizing an increased angiogenesis. *Cancer Research*, **2012**, 72, 3010-9	10.1	75
54	From in vivo gene targeting of oestrogen receptors to optimization of their modulation in menopause. *British Journal of Pharmacology*, **2012**, 165, 57-66	8.6	13
53	Correction of RT-qPCR data for genomic DNA-derived signals with ValidPrime. *Nucleic Acids Research*, **2012**, 40, e51	20.1	51
52	Essential thrombocythemia and pregnancy. *European Journal of Obstetrics, Gynecology and Reproductive Biology*, **2011**, 158, 141-7	2.4	23
51	Expression of nitric oxide synthases in primary ciliary dyskinesia. *Human Pathology*, **2011**, 42, 1855-61	3.7	19
50	Timing of the vascular actions of estrogens in experimental and human studies: why protective early, and not when delayed?. *Maturitas*, **2011**, 68, 165-73	5	55
49	Estradiol administration controls eosinophilia through estrogen receptor-alpha activation during acute peritoneal inflammation. *Journal of Leukocyte Biology*, **2011**, 90, 145-54	6.5	19
48	Activation function 2 (AF2) of estrogen receptor-alpha is required for the atheroprotective action of estradiol but not to accelerate endothelial healing. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 13311-6	11.5	96
47	Estrogen receptor alpha as a key target of red wine polyphenols action on the endothelium. *PLoS ONE*, **2010**, 5, e8554	3.7	85
46	17Beta-estradiol promotes TLR4-triggered proinflammatory mediator production through direct estrogen receptor alpha signaling in macrophages in vivo. *Journal of Immunology*, **2010**, 185, 1169-76	5.3	163
45	Endothelial estrogen receptor {alpha} plays an essential role in the coronary and myocardial protective effects of estradiol in ischemia/reperfusion. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 2562-7	9.4	57
44	Osteopontin expression in cardiomyocytes induces dilated cardiomyopathy. *Circulation: Heart Failure*, **2010**, 3, 431-9	7.6	41
43	Physiologic and pathologic changes of platelets in pregnancy. *Platelets*, **2010**, 21, 587-95	3.6	43
42	Estrogen receptors and endothelium. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 1506-12	9.4	143

41	Endothelial estrogen receptor-alpha plays a crucial role in the atheroprotective action of 17beta-estradiol in low-density lipoprotein receptor-deficient mice. *Circulation*, **2009**, 120, 2567-76	16.7	76
40	Estrogen receptor alpha expression in both endothelium and hematopoietic cells is required for the accelerative effect of estradiol on reendothelialization. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 1543-50	9.4	41
39	Repression of the estrogen receptor-alpha transcriptional activity by the Rho/megakaryoblastic leukemia 1 signaling pathway. *Journal of Biological Chemistry*, **2009**, 284, 33729-39	5.4	14
38	IRES-based vector coexpressing FGF2 and Cyr61 provides synergistic and safe therapeutics of lower limb ischemia. *Molecular Therapy*, **2009**, 17, 2010-9	11.7	20
37	The transactivating function 1 of estrogen receptor alpha is dispensable for the vasculoprotective actions of 17beta-estradiol. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 2053-8	11.5	99
36	Estrogens protect against high-fat diet-induced insulin resistance and glucose intolerance in mice. *Endocrinology*, **2009**, 150, 2109-17	4.8	302
35	Association of neutrophil count with microembolization in patients with symptomatic carotid artery stenosis. *Atherosclerosis*, **2009**, 207, 519-23	3.1	27
34	Prevention of skin flap necrosis by estradiol involves reperfusion of a protected vascular network. *Circulation Research*, **2009**, 104, 245-54, 12p following 254	15.7	45
33	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. *American Journal of Pathology*, **2008**, 172, 830-8	5.8	24
32	Estradiol increases urethral tone through the local inhibition of neuronal nitric oxide synthase expression. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2008**, 294, R851-7	3.2	20
31	Estradiol accelerates endothelial healing through the retrograde commitment of uninjured endothelium. *American Journal of Physiology - Heart and Circulatory Physiology*, **2008**, 294, H2822-30	5.2	30
30	Chronic estradiol administration in vivo promotes the proinflammatory response of macrophages to TLR4 activation: involvement of the phosphatidylinositol 3-kinase pathway. *Journal of Immunology*, **2008**, 180, 7980-8	5.3	123
29	Genetic and pharmacological targeting of phosphoinositide 3-kinase-gamma reduces atherosclerosis and favors plaque stability by modulating inflammatory processes. *Circulation*, **2008** , 117, 1310-7	16.7	110
28	Estrogen-stimulated endothelial repair requires osteopontin. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2008**, 28, 2131-6	9.4	18
27	Role of human smooth muscle cell progenitors in atherosclerotic plaque development and composition. *Cardiovascular Research*, **2008**, 77, 471-80	9.9	73
26	FGF2 translationally induced by hypoxia is involved in negative and positive feedback loops with HIF-1alpha. *PLoS ONE*, **2008**, 3, e3078	3.7	53
25	Long term expression of bicistronic vector driven by the FGF-1 IRES in mouse muscle. *BMC Biotechnology*, **2007**, 7, 74	3.5	16
24	Transforming growth factor activity is a key determinant for the effect of estradiol on fatty streak deposit in hypercholesterolemic mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 2214-21	9.4	12

23	Toll-like receptors 2-deficient mice are protected against postischemic coronary endothelial dysfunction. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 1064-71	9.4	159
22	Estrogens in vascular biology and disease: where do we stand today?. *Current Opinion in Lipidology*, **2007**, 18, 554-60	4.4	55
21	Essential role of bone marrow fibroblast growth factor-2 in the effect of estradiol on reendothelialization and endothelial progenitor cell mobilization. *American Journal of Pathology*, **2006**, 169, 1855-62	5.8	37
20	High frequency of endothelial vasomotor dysfunction after acute coronary syndromes in non-culprit and angiographically normal coronary arteries: a reversible phenomenon. *Atherosclerosis*, **2005**, 181, 311-9	3.1	17
19	The atheroprotective effect of 17beta-estradiol depends on complex interactions in adaptive immunity. *American Journal of Pathology*, **2005**, 167, 267-74	5.8	18
18	Effect of treatment on maxillary sinus and nasal nitric oxide concentrations in patients with nosocomial maxillary sinusitis. *Chest*, **2005**, 128, 1699-705	5.3	23
17	Relevance of sexual dimorphism to regulatory T cells: estradiol promotes IFN-gamma production by invariant natural killer T cells. *Blood*, **2005**, 105, 2415-20	2.2	116
16	Microparticles from apoptotic vascular smooth muscle cells induce endothelial dysfunction, a phenomenon prevented by beta3-integrin antagonists. *Thrombosis and Haemostasis*, **2005**, 94, 853-8	7	30
15	Hyperglycemia upregulates translation of the fibroblast growth factor 2 mRNA in mouse aorta via internal ribosome entry site. *FASEB Journal*, **2004**, 18, 1583-5	0.9	26
14	Improvement after lung volume reduction surgery: a role for inspiratory muscle adaptation. *Respiratory Physiology and Neurobiology*, **2004**, 139, 293-301	2.8	5
13	Deleting TCR alpha beta+ or CD4+ T lymphocytes leads to opposite effects on site-specific atherosclerosis in female apolipoprotein E-deficient mice. *American Journal of Pathology*, **2004**, 165, 2013-8	5.8	94
12	Alteration in endothelial estrogen receptor expression: a potential key of vasculoprotection by estrogens?. *Circulation Research*, **2002**, 91, 759-60	15.7	4
11	Vasculoprotective effects of oestrogens. *Clinical and Experimental Pharmacology and Physiology*, **2001**, 28, 1032-4	3	10
10	Failure of L-nitroarginine to inhibit the activity of aortic inducible nitric oxide synthase. *Journal of Vascular Research*, **2001**, 38, 266-75	1.9	8
9	Nasal polyp-derived superoxide anion: dose-dependent inhibition by nitric oxide and pathophysiological implications. *American Journal of Respiratory and Critical Care Medicine*, **2001**, 163, 145-51	10.2	19
8	Detection of superoxide anion released extracellularly by endothelial cells using cytochrome c reduction, ESR, fluorescence and lucigenin-enhanced chemiluminescence techniques. *Free Radical Biology and Medicine*, **2000**, 29, 388-96	7.8	99
7	Loss of atheroprotective effect of estradiol in immunodeficient mice. *Endocrinology*, **2000**, 141, 462-5	4.8	27
6	Electron spin resonance detection of extracellular superoxide anion released by cultured endothelial cells. *Free Radical Research*, **1998**, 29, 441-9	4	19

5	Sustained increase in aortic endothelial nitric oxide synthase expression in vivo in a model of chronic high blood flow. *Circulation Research*, **1996**, 79, 857-63	15.7	166
4	Nitric oxide in the pathogenesis of hypertension. *Current Opinion in Nephrology and Hypertension*, **1995**, 4, 182-8	3.5	30
3	Hyperproliferation of aortic smooth muscle cells and fibroblasts from young SHR rats is not shared by endothelial cells. *Clinical and Experimental Pharmacology and Physiology*, **1994**, 21, 981-9	3	10
2	Atrial natriuretic factor influences in vivo plasma, lung and aortic wall cGMP concentrations differently. *European Journal of Pharmacology*, **1993**, 237, 265-73	5.3	15
1	Effect of perindopril in rat cardiac volume overload. *American Heart Journal*, **1993**, 126, 776-82	4.9	8