Philippe G Frank

List of Publications by Year
in descending order

87 papers	8,879 citations	44042 48 h-index	53190 85 g-index
90 all docs	90 docs citations	90 times ranked	10347 citing authors

#	Article	IF	Citations
1	The reverse Warburg effect: Aerobic glycolysis in cancer associated fibroblasts and the tumor stroma. Cell Cycle, 2009, 8, 3984-4001.	1.3	1,130
2	Ketones and lactate â€œfuelâ€•tumor growth and metastasis. Cell Cycle, 2010, 9, 3506-3514.	1.3	526
3	Caveolin-1-deficient Mice Are Lean, Resistant to Diet-induced Obesity, and Show Hypertriglyceridemia with Adipocyte Abnormalities. Journal of Biological Chemistry, 2002, 277, 8635-8647.	1.6	494
4	Caveolin, Caveolae, and Endothelial Cell Function. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 1161-1168.	1.1	326
5	Microvascular Hyperpermeability in Caveolin-1 (â^'/â^') Knock-out Mice. Journal of Biological Chemistry, 2002, 277, 40091-40098.	1.6	290
6	Caveolae-deficient Endothelial Cells Show Defects in the Uptake and Transport of Albumin in Vivo. Journal of Biological Chemistry, 2001, 276, 48619-48622.	1.6	289
7	Caveolin-1 Expression Negatively Regulates Cell Cycle Progression by Inducing G₀/G₁Arrest via a p53/p21^{WAF1/Cip1}-dependent Mechanism. Molecular Biology of the Cell, 2001, 12, 2229-2244.	0.9	259
8	Role of Cholesterol in the Development and Progression of Breast Cancer. American Journal of Pathology, 2011, 178, 402-412.	1.9	257
9	Apolipoprotein A-I: structureâ€“function relationships. Journal of Lipid Research, 2000, 41, 853-872.	2.0	253
10	The autophagic tumor stroma model of cancer. Cell Cycle, 2010, 9, 3485-3505.	1.3	248
11	Loss of stromal caveolin-1 leads to oxidative stress, mimics hypoxia and drives inflammation in the tumor microenvironment, conferring the â€œreverse Warburg effectâ€: A transcriptional informatics analysis with validation. Cell Cycle, 2010, 9, 2201-2219.	1.3	212
12	Genetic Ablation of Caveolin-1 Confers Protection Against Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 98-105.	1.1	206
13	Caveolin-1/3 Double-Knockout Mice Are Viable, but Lack Both Muscle and Non-Muscle Caveolae, and Develop a Severe Cardiomyopathic Phenotype. American Journal of Pathology, 2002, 160, 2207-2217.	1.9	192
14	The reverse Warburg Effect: Glycolysis inhibitors prevent the tumor promoting effects of caveolin-1 deficient cancer associated fibroblasts. Cell Cycle, 2010, 9, 1960-1971.	1.3	192
15	Apolipoprotein A-I: structure-function relationships. Journal of Lipid Research, 2000, 41, 853-72.	2.0	180
16	Caveolin-1 Promotes Tumor Progression in an Autochthonous Mouse Model of Prostate Cancer. Journal of Biological Chemistry, 2005, 280, 25134-25145.	1.6	151
17	Transcriptional evidence for the "Reverse Warburg Effect" in human breast cancer tumor stroma and metastasis: Similarities with oxidative stress, inflammation, Alzheimer's disease, and "Neuron-Glia Metabolic Coupling". Aging, 2010, 2, 185-199.	1.4	136
18	Caveolin-1 Null (â^'/â^') Mice Show Dramatic Reductions in Life Spanâ€. Biochemistry, 2003, 42, 15124-15131.	1.2	134

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19	Caveolin-1 and regulation of cellular cholesterol homeostasis. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H677-H686.	1.5	134
20	Apolipoprotein A-I Conformation in Reconstituted Discoidal Lipoproteins Varying in Phospholipid and Cholesterol Content. Journal of Biological Chemistry, 1995, 270, 27429-27438.	1.6	133
21	Caveolae and transcytosis in endothelial cells: role in atherosclerosis. Cell and Tissue Research, 2009, 335, 41-47.	1.5	129
22	Caveolin-1â˜'/â˜' Null Mammary Stromal Fibroblasts Share Characteristics with Human Breast Cancer-Associated Fibroblasts. American Journal of Pathology, 2009, 174, 746-761.	1.9	123
23	Role of caveolin-1 in the regulation of lipoprotein metabolism. American Journal of Physiology - Cell Physiology, 2008, 295, C242-C248.	2.1	121
24	ICAM-1: role in inflammation and in the regulation of vascular permeability. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H926-H927.	1.5	113
25	Proteasome Inhibitor (MG-132) Treatment of mdx Mice Rescues the Expression and Membrane Localization of Dystrophin and Dystrophin-Associated Proteins. American Journal of Pathology, 2003, 163, 1663-1675.	1.9	111
26	Scavenger receptor class B type I regulates cellular cholesterol metabolism and cell signaling associated with breast cancer development. Breast Cancer Research, 2013, 15, R87.	2.2	108
27	Caveolin-1-deficient Mice Show Accelerated Mammary Gland Development During Pregnancy, Premature Lactation, and Hyperactivation of the Jak-2/STAT5a Signaling Cascade. Molecular Biology of the Cell, 2002, 13, 3416-3430.	0.9	107
28	A Western-Type Diet Accelerates Tumor Progression in an Autochthonous Mouse Model of Prostate Cancer. American Journal of Pathology, 2010, 177, 3180-3191.	1.9	102
29	Cholesterol and breast cancer development. Current Opinion in Pharmacology, 2012, 12, 677-682.	1.7	102
30	ATR/TEM8 is highly expressed in epithelial cells liningBacillus anthracisâ€™three sites of entry: implications for the pathogenesis of anthrax infection. American Journal of Physiology - Cell Physiology, 2005, 288, C1402-C1410.	2.1	98
31	Caveolin-1-Deficient Mice Show Defects in Innate Immunity and Inflammatory Immune Response during Salmonella enterica Serovar Typhimurium Infection. Infection and Immunity, 2006, 74, 6665-6674.	1.0	86
32	Clinical and translational implications of the caveolin gene family: lessons from mouse models and human genetic disorders. Laboratory Investigation, 2009, 89, 614-623.	1.7	76
33	Stabilization of Caveolin-1 by Cellular Cholesterol and Scavenger Receptor Class B Type Iâ€. Biochemistry, 2002, 41, 11931-11940.	1.2	75
34	Caveolin-1 Deficiency Stimulates Neointima Formation during Vascular Injury. Biochemistry, 2004, 43, 8312-8321.	1.2	73
35	Loss of Caveolin-1 Causes the Hyper-Proliferation of Intestinal Crypt Stem Cells, with Increased Sensitivity to Whole Body ?-Radiation. Cell Cycle, 2005, 4, 1817-1825.	1.3	73
36	Caveolin-1 (P132L), a Common Breast Cancer Mutation, Confers Mammary Cell Invasiveness and Defines a Novel Stem Cell/Metastasis-Associated Gene Signature. American Journal of Pathology, 2009, 174, 1650-1662.	1.9	73

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37	Caveolin-1 and caveolae in atherosclerosis: differential roles in fatty streak formation and neointimal hyperplasia. Current Opinion in Lipidology, 2004, 15, 523-529.	1.2	72
38	Influence of caveolin-1 on cellular cholesterol efflux mediated by high-density lipoproteins. American Journal of Physiology - Cell Physiology, 2001, 280, C1204-C1214.	2.1	65
39	Caveolin-1-deficient aortic smooth muscle cells show cell autonomous abnormalities in proliferation, migration, and endothelin-based signal transduction. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H2393-H2401.	1.5	65
40	Deletion of the C-Terminal Domain of Apolipoprotein A-I Impairs Cell Surface Binding and Lipid Efflux in Macrophage. Biochemistry, 1999, 38, 14524-14533.	1.2	64
41	Towards a new â€œstromal-basedâ€•classification system for human breast cancer prognosis and therapy. Cell Cycle, 2009, 8, 1654-1658.	1.3	64
42	Effect of Apolipoprotein A-I Lipidation on the Formation and Function of Pre-Î² and Î±-Migrating LpA-I Particlesâ€. Biochemistry, 1999, 38, 1727-1735.	1.2	63
43	SR-BI: Linking Cholesterol and Lipoprotein Metabolism with Breast and Prostate Cancer. Frontiers in Pharmacology, 2016, 7, 338.	1.6	60
44	Impaired Phagocytosis in Caveolin-1 Deficient Macrophages. Cell Cycle, 2005, 4, 1599-1607.	1.3	59
45	Muscle-specific interaction of caveolin isoforms: differential complex formation between caveolins in fibroblastic vs. muscle cells. American Journal of Physiology - Cell Physiology, 2005, 288, C677-C691.	2.1	59
46	Genetic Ablation of Caveolin-1 Drives Estrogen-Hypersensitivity and the Development of DCIS-Like Mammary Lesions. American Journal of Pathology, 2009, 174, 1172-1190.	1.9	57
47	SCN4B acts as a metastasis-suppressor gene preventing hyperactivation of cell migration in breast cancer. Nature Communications, 2016, 7, 13648.	5.8	57
48	Endothelial caveolin-1 plays a major role in the development of atherosclerosis. Cell and Tissue Research, 2014, 356, 147-157.	1.5	55
49	Caveolae and Caveolin-1: Novel Potential Targets for the Treatment of Cardiovascular Disease. Current Pharmaceutical Design, 2007, 13, 1761-1769.	0.9	48
50	Caveolin-1 is required for the upregulation of fatty acid synthase (FASN), a tumor promoter, during prostate cancer progression. Cancer Biology and Therapy, 2007, 6, 1269-1274.	1.5	47
51	Characterization of human apolipoprotein A-I expressed in Escherichia coli. Lipids and Lipid Metabolism, 1997, 1344, 139-152.	2.6	41
52	Distinct Central Amphipathic Î±-Helices in Apolipoprotein A-I Contribute to the in Vivo Maturation of High Density Lipoprotein by Either Activating Lecithin-Cholesterol Acyltransferase or Binding Lipids. Journal of Biological Chemistry, 2000, 275, 5043-5051.	1.6	39
53	Adenovirus-Mediated Expression of Caveolin-1 in Mouse Liver Increases Plasma High-Density Lipoprotein Levels. Biochemistry, 2001, 40, 10892-10900.	1.2	38
54	Altered emotionality, spatial memory and cholinergic function in caveolin-1 knock-out mice. Behavioural Brain Research, 2008, 188, 255-262.	1.2	38

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55	Deletion of Central Î±-Helices in Human Apolipoprotein A-I:Â Effect on Phospholipid Associationâ€. Biochemistry, 1997, 36, 1798-1806.	1.2	35
56	Importance of Central Î±-Helices of Human Apolipoprotein A-I in the Maturation of High-Density Lipoproteins. Biochemistry, 1998, 37, 13902-13909.	1.2	35
57	Atherosclerosis, Caveolae and Caveolin-1. Advances in Experimental Medicine and Biology, 2012, 729, 127-144.	0.8	35
58	Effect of the surface lipid composition of reconstituted LPA-I on apolipoprotein A-I structure and lecithin:cholesterol acyltransferase activity. Lipids and Lipid Metabolism, 1998, 1390, 160-172.	2.6	32
59	Role of caveolin-1 in the regulation of the vascular shear stress response. Journal of Clinical Investigation, 2006, 116, 1222-1225.	3.9	30
60	Seminal plasma choline phospholipid-binding proteins stimulate cellular cholesterol and phospholipid efflux. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 1999, 1438, 38-46.	1.2	28
61	Heteronuclear NMR studies of human serum apolipoprotein A-I. FEBS Letters, 2002, 517, 139-143.	1.3	28
62	Endothelial cells isolated from caveolin-2 knockout mice display higher proliferation rate and cell cycle progression relative to their wild-type counterparts. American Journal of Physiology - Cell Physiology, 2010, 298, C693-C701.	2.1	27
63	Secondary structure of human apolipoprotein A-I(1-186) in lipid-mimetic solution. FEBS Letters, 2001, 487, 390-396.	1.3	26
64	Evolutionarily Conserved Role of Calcineurin in Phosphodegron-Dependent Degradation of Phosphodiesterase 4D. Molecular and Cellular Biology, 2010, 30, 4379-4390.	1.1	26
65	Endothelial Caveolae and Caveolin-1 as Key Regulators of Atherosclerosis. American Journal of Pathology, 2010, 177, 544-546.	1.9	24
66	Caveolin-2-deficient mice show increased sensitivity to endotoxemia. Cell Cycle, 2011, 10, 2151-2161.	1.3	23
67	Caveolin-1 and Liver Regeneration: Role in Proliferation and Lipogenesis. Cell Cycle, 2007, 6, 115-116.	1.3	21
68	Loss of Caveolin-3 Induces a Lactogenic Microenvironment that Is Protective Against Mammary Tumor Formation. American Journal of Pathology, 2009, 174, 613-629.	1.9	20
69	Celecoxib Combined with Atorvastatin Prevents Progression ofÂAtherosclerosis. Journal of Surgical Research, 2010, 163, e113-e122.	0.8	19
70	Apolipoprotein-mediated regulation of lipid metabolism induces distinctive effects in different types of breast cancer cells. Breast Cancer Research, 2020, 22, 38.	2.2	19
71	Alterations in membrane caveolae and BKCa channel activity in skin fibroblasts in Smithâ€“Lemliâ€“Opitz syndrome. Molecular Genetics and Metabolism, 2011, 104, 346-355.	0.5	18
72	PV-1 is Negatively Regulated by VEGF in the Lung of Cav-1, but not Cav-2, Null Mice. Cell Cycle, 2006, 5, 2012-2020.	1.3	16

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73	Ablation of Calcineurin AÎ² Reveals Hyperlipidemia and Signaling Cross-talks with Phosphodiesterases. Journal of Biological Chemistry, 2013, 288, 3477-3488.	1.6	16
74	Caveolin-1 regulates the anti-atherogenic properties of macrophages. Cell and Tissue Research, 2014, 358, 821-831.	1.5	15
75	EPA and DHA Fatty Acids Induce a Remodeling of Tumor Vasculature and Potentiate Docetaxel Activity. International Journal of Molecular Sciences, 2020, 21, 4965.	1.8	13
76	Caveolin-3 Promotes a Vascular Smooth Muscle Contractile Phenotype. Frontiers in Cardiovascular Medicine, 2015, 2, 27.	1.1	11
77	Zebrafish as a Novel Model System to Study the Function of Caveolae and Caveolin-1 in Organismal Biology. American Journal of Pathology, 2006, 169, 1910-1912.	1.9	10
78	A biphasic response of hepatobiliary cholesterol metabolism to dietary fat at the onset of obesity in the mouse. Hepatology, 2005, 41, 887-895.	3.6	9
79	PV-1 Labels Trans-Cellular Openings in Mouse Endothelial Cells and is Negatively Regulated by VEGF. Cell Cycle, 2006, 5, 2021-2028.	1.3	8
80	Oxidized Products of Î±-Linolenic Acid Negatively Regulate Cellular Survival and Motility of Breast Cancer Cells. Biomolecules, 2020, 10, 50.	1.8	8
81	Low Levels of Omega-3 Long-Chain Polyunsaturated Fatty Acids Are Associated with Bone Metastasis Formation in Premenopausal Women with Breast Cancer: A Retrospective Study. Nutrients, 2020, 12, 3832.	1.7	8
82	Development of a Novel Highâ€Performance Thin Layer Chromatographyâ€“Based Method for the Simultaneous Quantification of Clinically Relevant Lipids from Cells and Tissue Extracts. Lipids, 2020, 55, 403-412.	0.7	5
83	Defining lipid raft structure and function with proximity imaging. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H2165-H2166.	1.5	3
84	Identification of a Positive Association between Mammary Adipose Cholesterol Content and Indicators of Breast Cancer Aggressiveness in a French Population. Journal of Nutrition, 2021, 151, 1119-1127.	1.3	3
85	Chapter 11 Caveolin Proteins in Cardiopulmonary Disease and Lung Cancers. Advances in Molecular and Cell Biology, 2005, , 211-233.	0.1	2
86	Chapter 10 Caveolae and Caveolins in the Vascular System: Functional Roles in Endothelia, Macrophages, and Smooth Muscle Cells. Advances in Molecular and Cell Biology, 2005, 36, 187-209.	0.1	0
87	Abstract 4123: Cholesterol and breast cancer. , 2012, , .		0