Albert Pol

List of Publications by Year
in descending order

64 papers	4,556 citations	109264 35 h-index	118793 62 g-index
66 all docs	66 docs citations	66 times ranked	5468 citing authors

#	Article	IF	Citations
1	Biogenesis of the multifunctional lipid droplet: Lipids, proteins, and sites. Journal of Cell Biology, 2014, 204, 635-646.	2.3	386
2	A Caveolin Dominant Negative Mutant Associates with Lipid Bodies and Induces Intracellular Cholesterol Imbalance. Journal of Cell Biology, 2001, 152, 1057-1070.	2.3	294
3	Acyl-CoA synthetase 3 promotes lipid droplet biogenesis in ER microdomains. Journal of Cell Biology, 2013, 203, 985-1001.	2.3	257
4	Mammalian lipid droplets are innate immune hubs integrating cell metabolism and host defense. Science, 2020, 370, .	6.0	245
5	Caveolin-1 Is Essential for Liver Regeneration. Science, 2006, 313, 1628-1632.	6.0	235
6	AMPK activation promotes lipid droplet dispersion on detyrosinated microtubules to increase mitochondrial fatty acid oxidation. Nature Communications, 2015, 6, 7176.	5.8	215
7	Dynamic and Regulated Association of Caveolin with Lipid Bodies: Modulation of Lipid Body Motility and Function by a Dominant Negative Mutant. Molecular Biology of the Cell, 2004, 15, 99-110.	0.9	185
8	Cholesterol and Fatty Acids Regulate Dynamic Caveolin Trafficking through the Golgi Complex and between the Cell Surface and Lipid Bodies. Molecular Biology of the Cell, 2005, 16, 2091-2105.	0.9	184
9	Identification and Characterization of Associated with Lipid Droplet Protein 1: A Novel Membrane-Associated Protein That Resides on Hepatic Lipid Droplets. Traffic, 2006, 7, 1254-1269.	1.3	179
10	Caveolin-1 Deficiency Causes Cholesterol-Dependent Mitochondrial Dysfunction and Apoptotic Susceptibility. Current Biology, 2011, 21, 681-686.	1.8	175
11	Cell-to-Cell Heterogeneity in Lipid Droplets Suggests a Mechanism to Reduce Lipotoxicity. Current Biology, 2013, 23, 1489-1496.	1.8	152
12	Interplay between hepatic mitochondria-associated membranes, lipid metabolism and caveolin-1 in mice. Scientific Reports, 2016, 6, 27351.	1.6	131
13	Cholesterol Regulates Syntaxin 6 Trafficking at trans-Golgi Network Endosomal Boundaries. Cell Reports, 2014, 7, 883-897.	2.9	104
14	A novel role for lipid droplets in the organismal antibacterial response. ELife, 2012, 1, e00003.	2.8	98
15	Annexin A6â€Induced Alterations in Cholesterol Transport and Caveolin Export from the Golgi Complex. Traffic, 2007, 8, 1568-1589.	1.3	95
16	Isolated endosomes from quiescent rat liver contain the signal transduction machinery. FEBS Letters, 1998, 441, 34-38.	1.3	92
17	Annexin A6 stimulates the membrane recruitment of p120GAP to modulate Ras and Raf-1 activity. Oncogene, 2005, 24, 5809-5820.	2.6	84
18	Caveolin-1 orchestrates the balance between glucose and lipid-dependent energy metabolism: Implications for liver regeneration. Hepatology, 2012, 55, 1574-1584.	3.6	82

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19	Altered cholesterol homeostasis contributes to enhanced excitotoxicity in Huntingtonâ€™s disease. Journal of Neurochemistry, 2010, 115, 153-167.	2.1	76
20	Identification of cytoskeleton-associated proteins in isolated rat liver endosomes. Biochemical Journal, 1997, 327, 741-746.	1.7	70
21	Hydrophobic and Basic Domains Target Proteins to Lipid Droplets. Traffic, 2009, 10, 1785-1801.	1.3	67
22	Annexin A6 inhibits Ras signalling in breast cancer cells. Oncogene, 2009, 28, 363-377.	2.6	65
23	The ?early-sorting? endocytic compartment of rat hepatocytes is involved in the intracellular pathway of caveolin-1 (VIP-21). Hepatology, 1999, 29, 1848-1857.	3.6	62
24	Cholesterol transport from late endosomes to the Golgi regulates t-SNARE trafficking, assembly, and function. Molecular Biology of the Cell, 2011, 22, 4108-4123.	0.9	59
25	Annexin A6 modulates TBC1D15/Rab7/StARD3 axis to control endosomal cholesterol export in NPC1 cells. Cellular and Molecular Life Sciences, 2020, 77, 2839-2857.	2.4	54
26	Epidermal Growth Factor-mediated Caveolin Recruitment to Early Endosomes and MAPK Activation. Journal of Biological Chemistry, 2000, 275, 30566-30572.	1.6	47
27	Mitochondrial Cholesterol: A Connection Between Caveolin, Metabolism, and Disease. Traffic, 2011, 12, 1483-1489.	1.3	45
28	Inhibition of Lipid Raft-dependent Signaling by a Dystrophy-associated Mutant of Caveolin-3. Journal of Biological Chemistry, 2002, 277, 17944-17949.	1.6	43
29	Annexin A6-induced Inhibition of Cytoplasmic Phospholipase A2 Is Linked to Caveolin-1 Export from the Golgi. Journal of Biological Chemistry, 2008, 283, 10174-10183.	1.6	43
30	Annexin A6 and Late Endosomal Cholesterol Modulate Integrin Recycling and Cell Migration. Journal of Biological Chemistry, 2016, 291, 1320-1335.	1.6	43
31	Mammalian histones facilitate antimicrobial synergy by disrupting the bacterial proton gradient and chromosome organization. Nature Communications, 2020, 11, 3888.	5.8	43
32	Identification and distribution of proteins in isolated endosomal fractions of rat liver: involvement in endocytosis, recycling and transcytosis. Biochemical Journal, 1997, 323, 435-443.	1.7	42
33	Late Endocytic Compartments Are Major Sites of Annexin VI Localization in NRK Fibroblasts and Polarized WIF-B Hepatoma Cells. Experimental Cell Research, 2000, 257, 33-47.	1.2	42
34	Protein Kinase CÎ´ and Calmodulin Regulate Epidermal Growth Factor Receptor Recycling from Early Endosomes through Arp2/3 Complex and Cortactin. Molecular Biology of the Cell, 2008, 19, 17-29.	0.9	41
35	Lipid droplets, bioenergetic fluxes, and metabolic flexibility. Seminars in Cell and Developmental Biology, 2020, 108, 33-46.	2.3	37
36	Cholesterol transport from late endosomes to the Golgi regulates t-SNARE trafficking, assembly, and function. Molecular Biology of the Cell, 2011, 22, 4108-4123.	0.9	36

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37	Inhibition of H-Ras and MAPK is compensated by PKC-dependent pathways in annexin A6 expressing cells. Cellular Signalling, 2006, 18, 1006-1016.	1.7	35
38	Non-caveolar caveolins â€“ duties outside the caves. Journal of Cell Science, 2020, 133, .	1.2	35
39	Altered Arachidonate Distribution in Macrophages from Caveolin-1 Null Mice Leading to Reduced Eicosanoid Synthesis. Journal of Biological Chemistry, 2011, 286, 35299-35307.	1.6	32
40	Lipid droplets and the hostâ€“pathogen dynamic: FATal attraction?. Journal of Cell Biology, 2021, 220, .	2.3	31
41	Rac1 and Calmodulin Interactions Modulate Dynamics of ARF6â€Dependent Endocytosis. Traffic, 2011, 12, 1879-1896.	1.3	26
42	Triton X-100 promotes a cholesterol-dependent condensation of the plasma membrane. Biochemical Journal, 2009, 420, 373-381.	1.7	24
43	ROCK1 is a novel Rac1 effector to regulate tubular endocytic membrane formation during clathrin-independent endocytosis. Scientific Reports, 2017, 7, 6866.	1.6	22
44	Membrane transport in rat liver endocytic pathways: Preparation, biochemical properties and functional roles of hepatic endosomes. Electrophoresis, 1997, 18, 2548-2557.	1.3	20
45	Annexin A6 Is Critical to Maintain Glucose Homeostasis and Survival During Liver Regeneration in Mice. Hepatology, 2020, 72, 2149-2164.	3.6	20
46	Cellubrevin Is Present in the Basolateral Endocytic Compartment of Hepatocytes and Follows the Transcytotic Pathway after IgA Internalization. Journal of Biological Chemistry, 2000, 275, 7910-7917.	1.6	19
47	Ras/Mitogen-activated Protein Kinase (MAPK) Signaling Modulates Protein Stability and Cell Surface Expression of Scavenger Receptor SR-BI. Journal of Biological Chemistry, 2011, 286, 23077-23092.	1.6	19
48	Dissection of the multifunctional â€œreceptor-recyclingâ€•endocytic compartment of hepatocytes. Hepatology, 1999, 30, 1115-1120.	3.6	18
49	Dynamics of KRas on endosomes: involvement of acidic phospholipids in its association. FASEB Journal, 2014, 28, 3023-3037.	0.2	17
50	Calmodulin modulates H-Ras mediated Raf-1 activation. Cellular Signalling, 2008, 20, 1092-1103.	1.7	16
51	Eukaryotic lipid droplets: metabolic hubs, and immune first responders. Trends in Endocrinology and Metabolism, 2022, 33, 218-229.	3.1	15
52	EGF triggers caveolin redistribution from the plasma membrane to the early/sorting endocytic compartment of hepatocytes. Cellular Signalling, 2000, 12, 537-540.	1.7	13
53	Involvement of Targeting and Scaffolding Proteins in the Regulation of the EGFR/Ras/MAPK Pathway in Oncogenesis. Current Signal Transduction Therapy, 2006, 1, 147-167.	0.3	9
54	Differential involvement of H- and K-Ras in Raf-1 activation determines the role of calmodulin in MAPK signaling. Cellular Signalling, 2009, 21, 1827-1836.	1.7	9

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55	Hepatic Primary and Secondary Cholesterol Deposition and Damage in Niemann-Pick Disease. American Journal of Pathology, 2016, 186, 517-523.	1.9	9
56	Novel contact sites between lipid droplets, early endosomes, and the endoplasmic reticulum. Journal of Lipid Research, 2020, 61, 1364.	2.0	9
57	Annexins and Endosomal Signaling. Methods in Enzymology, 2014, 535, 55-74.	0.4	8
58	The Myxobacterial Metabolite Soraphen A Inhibits HIV-1 by Reducing Virus Production and Altering Virion Composition. Antimicrobial Agents and Chemotherapy, 2017, 61, .	1.4	8
59	Intracellular trafficking during liver regeneration. Journal of Hepatology, 2004, 40, 132-139.	1.8	7
60	Changes of skeletal muscle proteases activities during a chronic low-frequency stimulation period. Pflugers Archiv European Journal of Physiology, 2001, 442, 745-751.	1.3	6
61	Insights Into the Biogenesis and Emerging Functions of Lipid Droplets From Unbiased Molecular Profiling Approaches. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	5
62	Lack of Annexin A6 Exacerbates Liver Dysfunction and Reduces Lifespan of Niemann-Pick Type C Proteinâ€“Deficient Mice. American Journal of Pathology, 2021, 191, 475-486.	1.9	3
63	ContactJ: Lipid droplets-mitochondria contacts characterization through fluorescence microscopy and image analysis. F1000Research, 2021, 10, 263.	0.8	2
64	ContactJ: Characterization of lipid droplet-mitochondrial contacts using fluorescence microscopy and image analysis. F1000Research, 0, 10, 263.	0.8	1