

James Hamilton

List of Publications by Year in descending order

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95
papers

7,159
citations

53794

45
h-index

54911

84
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97
all docs

97
docs citations

97
times ranked

8883
citing authors

#	ARTICLE	IF	CITATIONS
1	A Qualitative Comparison of Manual and Machine Segmentation for Whole Slide Histology Images of Rabbit Vocal Folds. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
2	Mitochondrial uncouplers induce proton leak by activating AAC and UCP1. <i>Nature</i> , 2022, 606, 180-187.	27.8	48
3	Energy Metabolism and Mitochondrial Superoxide Anion Production in Pre-symptomatic Striatal Neurons Derived from Human-Induced Pluripotent Stem Cells Expressing Mutant Huntingtin. <i>Molecular Neurobiology</i> , 2020, 57, 668-684.	4.0	18
4	High Fat Diet versus Disturbed Blood Flow Conditions: Implications for Endothelial Glycocalyx Integrity and Pre-atherosclerotic Inflammation. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	2
5	MRI of atherosclerosis and fatty liver disease in cholesterol fed rabbits. <i>Journal of Translational Medicine</i> , 2018, 16, 215.	4.4	12
6	Understanding the role of pancreatic Î² cell CD36 in the development of Type 2 Diabetes. <i>FASEB Journal</i> , 2018, 32, .	0.5	0
7	Reply. <i>Hepatology</i> , 2017, 65, 755-755.	7.3	0
8	Reply. <i>Hepatology</i> , 2016, 64, 1371-1372.	7.3	0
9	Simultaneous Longitudinal Strain in All 4 Cardiac Chambers. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, e003895.	2.6	28
10	Early in vivo discrimination of vulnerable atherosclerotic plaques that disrupt: A serial MRI study. <i>Atherosclerosis</i> , 2016, 244, 101-107.	0.8	13
11	Resolvin E1 (RvE1) Attenuates Atherosclerotic Plaque Formation in Diet and Inflammation-Induced Atherogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1123-1133.	2.4	171
12	Fatty acid binding to CD36 affects oxLDL uptake. <i>FASEB Journal</i> , 2015, 29, 566.8.	0.5	1
13	Regions of Low Endothelial Shear Stress Colocalize With Positive Vascular Remodeling and Atherosclerotic Plaque Disruption. <i>Circulation: Cardiovascular Imaging</i> , 2013, 6, 302-310.	2.6	38
14	Healthy obese persons. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2013, 20, 369-376.	2.3	17
15	Protective Role for TLR4 Signaling in Atherosclerosis Progression as Revealed by Infection with a Common Oral Pathogen. <i>Journal of Immunology</i> , 2012, 189, 3681-3688.	0.8	54
16	Solution Structure and Backbone Dynamics of Human Liver Fatty Acid Binding Protein: Fatty Acid Binding Revisited. <i>Biophysical Journal</i> , 2012, 102, 2585-2594.	0.5	49
17	Effect of disease progression on liver apparent diffusion coefficient and T ₂ values in a murine model of hepatic fibrosis at 11.7 Tesla MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 140-146.	3.4	31
18	<i>Porphyromonas gingivalis</i> accelerates inflammatory atherosclerosis in the innominate artery of ApoE deficient mice. <i>Atherosclerosis</i> , 2011, 215, 52-59.	0.8	83

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19	Effects of Acetaldehyde on Hepatocyte Glycerol Uptake and Cell Size: Implication of Aquaporin 9. <i>Alcoholism: Clinical and Experimental Research</i> , 2011, 35, 939-945.	2.4	12
20	Study of the miscibility of cholesteryl oleate in a matrix of ceramide, cholesterol and fatty acid. <i>Chemistry and Physics of Lipids</i> , 2011, 164, 664-671.	3.2	8
21	Effect of disease progression on liver apparent diffusion coefficient values in a murine model of NASH at 11.7 tesla MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 882-888.	3.4	33
22	Application of MRI to detect high-risk atherosclerotic plaque. <i>Expert Review of Cardiovascular Therapy</i> , 2011, 9, 545-550.	1.5	1
23	In vivo Detection of Vulnerable Atherosclerotic Plaque by MRI in a Rabbit Model. <i>Circulation: Cardiovascular Imaging</i> , 2010, 3, 323-332.	2.6	57
24	Genome-Wide Association Study Identifies ALDH7A1 as a Novel Susceptibility Gene for Osteoporosis. <i>PLoS Genetics</i> , 2010, 6, e1000806.	3.5	101
25	Caveolins sequester FA on the cytoplasmic leaflet of the plasma membrane, augment triglyceride formation, and protect cells from lipotoxicity. <i>Journal of Lipid Research</i> , 2010, 51, 914-922.	4.2	23
26	Fast Diffusion of Very Long Chain Saturated Fatty Acids across a Bilayer Membrane and Their Rapid Extraction by Cyclodextrins. <i>Journal of Biological Chemistry</i> , 2009, 284, 33296-33304.	3.4	22
27	Genetic Disruption of Myostatin Reduces the Development of Proatherogenic Dyslipidemia and Atherogenic Lesions In <i>Ldlr</i> Null Mice. <i>Diabetes</i> , 2009, 58, 1739-1748.	0.6	51
28	A robust rabbit model of human atherosclerosis and atherothrombosis. <i>Journal of Lipid Research</i> , 2009, 50, 787-797.	4.2	78
29	Early-Life Sodium Exposure Unmasks Susceptibility to Stroke in Hyperlipidemic, Hypertensive Heterozygous Tg25 Rats Transgenic for Human Cholesteryl Ester Transfer Protein. <i>Circulation</i> , 2009, 119, 1501-1509.	1.6	17
30	Acipimox, an Inhibitor of Lipolysis, Attenuates Atherogenesis in LDLR-Null Mice Treated With HIV Protease Inhibitor Ritonavir. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 2028-2032.	2.4	9
31	Correlation of Obesity and Osteoporosis: Effect of Fat Mass on the Determination of Osteoporosis. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 17-29.	2.8	408
32	Measuring the Adsorption of Fatty Acids to Phospholipid Vesicles by Multiple Fluorescence Probes. <i>Biophysical Journal</i> , 2008, 94, 4493-4503.	0.5	19
33	Effects of dihydrotestosterone on differentiation and proliferation of human mesenchymal stem cells and preadipocytes. <i>Molecular and Cellular Endocrinology</i> , 2008, 296, 32-40.	3.2	138
34	Fast/Glycolytic Muscle Fiber Growth Reduces Fat Mass and Improves Metabolic Parameters in Obese Mice. <i>Cell Metabolism</i> , 2008, 7, 159-172.	16.2	331
35	Healing of an Asymptomatic Carotid Plaque Ulceration. <i>Circulation</i> , 2008, 118, e147-8.	1.6	15
36	Identification of Atherosclerotic Lipid Deposits by Diffusion-Weighted Imaging. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 1440-1446.	2.4	40

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37	Relationship of Obesity with Osteoporosis. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007, 92, 1640-1646.	3.6	494
38	Targeted binding of PLA microparticles with lipid-PEG-tethered ligands. <i>Biomaterials</i> , 2007, 28, 4991-4999.	11.4	70
39	Crystal structure of CETP: new hopes for raising HDL to decrease risk of cardiovascular disease?. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 95-97.	8.2	13
40	A Model for Fatty Acid Transport into the Brain. <i>Journal of Molecular Neuroscience</i> , 2007, 33, 12-17.	2.3	135
41	Roundtable Discussion of Session 1: Mechanisms of Lipid Uptake and Transport in the Brain. <i>Journal of Molecular Neuroscience</i> , 2007, 33, 45-50.	2.3	1
42	Roundtable Discussion of Session 2: Lipoproteins and Polyunsaturated Fatty Acids. <i>Journal of Molecular Neuroscience</i> , 2007, 33, 74-79.	2.3	1
43	Roundtable Discussion of Session 3: Eicosanoids in Brain Function. <i>Journal of Molecular Neuroscience</i> , 2007, 33, 100-104.	2.3	0
44	Roundtable Discussion of Session 4: Fatty Acids and Lipids in Brain Disorders. <i>Journal of Molecular Neuroscience</i> , 2007, 33, 120-124.	2.3	0
45	Brain Uptake and Utilization of Fatty Acids, Lipids & Lipoproteins: Recommendations for Future Research. <i>Journal of Molecular Neuroscience</i> , 2007, 33, 146-150.	2.3	15
46	Brain Uptake and Utilization of Fatty Acids, Lipids and Lipoproteins: Application to Neurological Disorders. <i>Journal of Molecular Neuroscience</i> , 2007, 33, 2-11.	2.3	110
47	Interactions between fatty acids and α -synuclein. <i>Journal of Lipid Research</i> , 2006, 47, 1714-1724.	4.2	51
48	Location of High and Low Affinity Fatty Acid Binding Sites on Human Serum Albumin Revealed by NMR Drug-competition Analysis. <i>Journal of Molecular Biology</i> , 2006, 361, 336-351.	4.2	301
49	Oleate-induced formation of fat cells with impaired insulin sensitivity. <i>Lipids</i> , 2006, 41, 267-271.	1.7	26
50	Identification of cholesteryl esters in human carotid atherosclerosis by ex vivo image-guided proton MRS. <i>Journal of Lipid Research</i> , 2006, 47, 310-317.	4.2	27
51	Eicosapentaenoic acid, but not oleic acid, stimulates α -oxidation in adipocytes. <i>Lipids</i> , 2005, 40, 815-821.	1.7	65
52	MRI of Atherothrombosis Associated With Plaque Rupture. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005, 25, 240-245.	2.4	37
53	Locating high-affinity fatty acid-binding sites on albumin by x-ray crystallography and NMR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17958-17963.	7.1	236
54	Angiotensin Receptor Blockade With Candesartan Attenuates Atherosclerosis, Plaque Disruption, and Macrophage Accumulation Within the Plaque in a Rabbit Model. <i>Circulation</i> , 2004, 110, 2060-2065.	1.6	55

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55	In Vivo Molecular Imaging of Acute and Subacute Thrombosis Using a Fibrin-Binding Magnetic Resonance Imaging Contrast Agent. <i>Circulation</i> , 2004, 109, 2023-2029.	1.6	266
56	Medium-Chain Fatty Acids Attenuate Agonist-Stimulated Lipolysis, Mimicking the Effects of Starvation. <i>Obesity</i> , 2004, 12, 599-611.	4.0	24
57	NMR assignment and structural characterization of the fatty acid binding protein from the flight muscle of <i>Locusta migratoria</i> . <i>Journal of Biomolecular NMR</i> , 2003, 25, 355-356.	2.8	2
58	Energy translocation across cell membranes and membrane models. <i>Acta Physiologica Scandinavica</i> , 2003, 178, 357-365.	2.2	37
59	Medium-Chain Oil Reduces Fat Mass and Down-regulates Expression of Adipogenic Genes in Rats. <i>Obesity</i> , 2003, 11, 734-744.	4.0	101
60	The Formation of Highly Soluble Oligomers of α -Synuclein Is Regulated by Fatty Acids and Enhanced in Parkinson's Disease. <i>Neuron</i> , 2003, 37, 583-595.	8.1	522
61	Rapid Flip-flop of Oleic Acid across the Plasma Membrane of Adipocytes. <i>Journal of Biological Chemistry</i> , 2003, 278, 7988-7995.	3.4	107
62	Sulfonylureas Rapidly Cross Phospholipid Bilayer Membranes by a Free-Diffusion Mechanism. <i>Diabetes</i> , 2003, 52, 2526-2531.	0.6	22
63	Interactions of very long-chain saturated fatty acids with serum albumin. <i>Journal of Lipid Research</i> , 2002, 43, 1000-1010.	4.2	99
64	A Solid-State NMR Study of Phospholipid-Cholesterol Interactions: Sphingomyelin-Cholesterol Binary Systems. <i>Biophysical Journal</i> , 2002, 83, 1465-1478.	0.5	105
65	Interactions of acyl carnitines with model membranes. <i>Journal of Lipid Research</i> , 2002, 43, 1429-1439.	4.2	46
66	Binding of 13-HODE and 15-HETE to Phospholipid Bilayers, Albumin, and Intracellular Fatty Acid Binding Proteins. <i>Journal of Biological Chemistry</i> , 2001, 276, 15575-15580.	3.4	72
67	Fatty Acid Transport: The Diffusion Mechanism in Model and Biological Membranes. <i>Journal of Molecular Neuroscience</i> , 2001, 16, 99-108.	2.3	109
68	Glucagon-Like Peptide 1 Stimulates Lipolysis in Clonal Pancreatic β -Cells (HIT). <i>Diabetes</i> , 2001, 50, 56-62.	0.6	53
69	In Vivo Magnetic Resonance Imaging of Experimental Thrombosis in a Rabbit Model. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001, 21, 1556-1560.	2.4	79
70	Solution structure of ileal lipid binding protein in complex with glycocholate. <i>FEBS Journal</i> , 2000, 267, 2929-2938.	0.2	48
71	Quantification of Cholesteryl Esters in Human and Rabbit Atherosclerotic Plaques by Magic-Angle Spinning ^{13}C -NMR. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000, 20, 2682-2688.	2.4	25
72	Quantification In Situ of Crystalline Cholesterol and Calcium Phosphate Hydroxyapatite in Human Atherosclerotic Plaques by Solid-State Magic Angle Spinning NMR. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000, 20, 1630-1636.	2.4	44

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73	Incorporation of [1-13C]oleate into cellular triglycerides in differentiating 3T3L1 cells. <i>Lipids</i> , 1999, 34, 825-831.	1.7	9
74	How are free fatty acids transported in membranes? Is it by proteins or by free diffusion through the lipids?. <i>Diabetes</i> , 1999, 48, 2255-2269.	0.6	279
75	Identification of different lipid phases and calcium phosphate deposits in human carotid artery plaques by MAS NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 184-189.	3.0	13
76	A 13C nuclear magnetic resonance study of free fatty acid incorporation in acylated lipids in differentiating predipocytes. <i>Lipids</i> , 1998, 33, 449-454.	1.7	5
77	Solution structure of human intestinal fatty acid binding protein: implications for ligand entry and exit. <i>Journal of Biomolecular NMR</i> , 1997, 9, 213-228.	2.8	58
78	13C MAS NMR studies of crystalline cholesterol and lipid mixtures modeling atherosclerotic plaques. <i>Biophysical Journal</i> , 1996, 71, 2857-2868.	0.5	49
79	Intracellular pH in adipocytes: effects of free fatty acid diffusion across the plasma membrane, lipolytic agonists, and insulin.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 10139-10144.	7.1	90
80	Flexibility is a likely determinant of binding specificity in the case of ileal lipid binding protein. <i>Structure</i> , 1996, 4, 785-800.	3.3	88
81	Molecular organization and motions of crystalline monoacylglycerols and diacylglycerols: a C-13 MASNMR study. <i>Biophysical Journal</i> , 1995, 68, 1383-1395.	0.5	10
82	Phase behavior and crystalline structures of cholesteryl ester mixtures: a C-13 MASNMR study. <i>Biophysical Journal</i> , 1995, 68, 2376-2386.	0.5	8
83	Interactions of a very long chain fatty acid with model membranes and serum albumin. Implications for the pathogenesis of adrenoleukodystrophy.. <i>Journal of Clinical Investigation</i> , 1995, 96, 1455-1463.	8.2	166
84	Structural requirements for charged lipid molecules to directly increase or suppress K+ channel activity in smooth muscle cells. Effects of fatty acids, lysophosphatidate, acyl coenzyme A and sphingosine.. <i>Journal of General Physiology</i> , 1994, 103, 471-486.	1.9	54
85	pH gradients across phospholipid membranes caused by fast flip-flop of un-ionized fatty acids.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 11367-11370.	7.1	284
86	Locations of the three primary binding sites for long-chain fatty acids on bovine serum albumin.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 2051-2054.	7.1	154
87	Conformation and inhibitory properties of peptides based on the tissue kallikrein-angiotensin complex. <i>International Journal of Peptide and Protein Research</i> , 1991, 37, 536-543.	0.1	5
88	Medium-chain fatty acid binding to albumin and transfer to phospholipid bilayers.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 2663-2667.	7.1	40
89	Transfer of oleic acid between albumin and phospholipid vesicles.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986, 83, 82-86.	7.1	125
90	The Ionization Behavior of Fatty Acids and Bile Acids in Micelles and Membranes. <i>Hepatology</i> , 1984, 4, 77S-79S.	7.3	90

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91	Interactions of myristic acid with bovine serum albumin: a ¹³ C NMR study.. Proceedings of the National Academy of Sciences of the United States of America, 1984, 81, 3718-3722.	7.1	84
92	Solubilization and localization of triolein in phosphatidylcholine bilayers: a ¹³ C NMR study.. Proceedings of the National Academy of Sciences of the United States of America, 1981, 78, 6878-6882.	7.1	158
93	High-field ¹³ C NMR Studies of certain normal and abnormal human plasma lipoproteins. Science, 1976, 194, 1424-1427.	12.6	24
94	Length, weight and secondary sex character development in male and female phenotypes in three sex chromosomal genotypes (XX, XY, YY) in the killifish, <i>Oryzias latipes</i> . The Journal of Experimental Zoology, 1974, 189, 227-233.	1.4	3
95	Natural Abundance Carbon-13 Nuclear Magnetic Resonance Spectra of Human Serum Lipoproteins. Science, 1973, 180, 193-195.	12.6	31