

Peter Stralfors

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93
papers

7,515
citations

38
h-index

86
g-index

96
ext. papers

7,948
ext. citations

5.5
avg, IF

5.11
L-index

#	Paper	IF	Citations
93	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544.	14.2	2783
92	Protein phosphatase-1 and protein phosphatase-2A from rabbit skeletal muscle. <i>Methods in Enzymology</i> , 1988 , 159, 390-408	1.7	373
91	Localization of the insulin receptor in caveolae of adipocyte plasma membrane. <i>FASEB Journal</i> , 1999 , 13, 1961-1971	0.9	312
90	Cholesterol depletion disrupts caveolae and insulin receptor signaling for metabolic control via insulin receptor substrate-1, but not for mitogen-activated protein kinase control. <i>Journal of Biological Chemistry</i> , 2001 , 276, 9670-8	5.4	268
89	The protein phosphatases involved in cellular regulation. Purification and characterisation of the glycogen-bound form of protein phosphatase-1 from rabbit skeletal muscle. <i>FEBS Journal</i> , 1985 , 149, 295-303		236
88	Attenuated mTOR signaling and enhanced autophagy in adipocytes from obese patients with type 2 diabetes. <i>Molecular Medicine</i> , 2010 , 16, 235-46	6.2	209
87	Vectorial proteomics reveal targeting, phosphorylation and specific fragmentation of polymerase I and transcript release factor (PTRF) at the surface of caveolae in human adipocytes. <i>Biochemical Journal</i> , 2004 , 383, 237-48	3.8	133
86	Lipids and glycosphingolipids in caveolae and surrounding plasma membrane of primary rat adipocytes. <i>FEBS Journal</i> , 2004 , 271, 2028-36		112
85	Insulin-induced dephosphorylation of hormone-sensitive lipase. Correlation with lipolysis and cAMP-dependent protein kinase activity. <i>FEBS Journal</i> , 1989 , 182, 379-85		112
84	Cell surface orifices of caveolae and localization of caveolin to the necks of caveolae in adipocytes. <i>Molecular Biology of the Cell</i> , 2003 , 14, 3967-76	3.5	111
83	Triacylglycerol is synthesized in a specific subclass of caveolae in primary adipocytes. <i>Journal of Biological Chemistry</i> , 2005 , 280, 5-8	5.4	110
82	Functionalised ZnO-nanorod-based selective electrochemical sensor for intracellular glucose. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 2205-11	11.8	108
81	Retinol-binding protein-4 attenuates insulin-induced phosphorylation of IRS1 and ERK1/2 in primary human adipocytes. <i>FASEB Journal</i> , 2007 , 21, 3696-704	0.9	106
80	Regulation of adipose tissue lipolysis: effects of noradrenaline and insulin on phosphorylation of hormone-sensitive lipase and on lipolysis in intact rat adipocytes. <i>FEBS Letters</i> , 1980 , 111, 125-30	3.8	106
79	An intracellular glucose biosensor based on nanoflake ZnO. <i>Sensors and Actuators B: Chemical</i> , 2010 , 150, 673-680	8.5	104
78	Direct evidence that cholesterol ester hydrolase from adrenal cortex is the same enzyme as hormone-sensitive lipase from adipose tissue. <i>FEBS Journal</i> , 1982 , 125, 245-9		102
77	ZnO nanorods as an intracellular sensor for pH measurements. <i>Journal of Applied Physics</i> , 2007 , 102, 084304	2.5	101

76	Phospho-dephospho-control by insulin is mimicked by a phospho-oligosaccharide in adipocytes. <i>Nature</i> , 1987 , 330, 77-9	50.4	101
75	Insulin-Stimulated Glucose Uptake Involves the Transition of Glucose Transporters to a Caveolae-Rich Fraction within the Plasma Membrane: Implications for Type II Diabetes. <i>Molecular Medicine</i> , 1996 , 2, 367-372	6.2	88
74	Insulin signaling in type 2 diabetes: experimental and modeling analyses reveal mechanisms of insulin resistance in human adipocytes. <i>Journal of Biological Chemistry</i> , 2013 , 288, 9867-9880	5.4	78
73	Insulin stimulation of glucose uptake can be mediated by diacylglycerol in adipocytes. <i>Nature</i> , 1988 , 335, 554-6	50.4	75
72	Insulin induces translocation of glucose transporter GLUT4 to plasma membrane caveolae in adipocytes. <i>FASEB Journal</i> , 2002 , 16, 249-51	0.9	73
71	Colocalization of insulin receptor and insulin receptor substrate-1 to caveolae in primary human adipocytes. Cholesterol depletion blocks insulin signalling for metabolic and mitogenic control. <i>FEBS Journal</i> , 2004 , 271, 2471-9		72
70	Rapid insulin-dependent endocytosis of the insulin receptor by caveolae in primary adipocytes. <i>PLoS ONE</i> , 2009 , 4, e5985	3.7	70
69	Attenuation of insulin-stimulated insulin receptor substrate-1 serine 307 phosphorylation in insulin resistance of type 2 diabetes. <i>Journal of Biological Chemistry</i> , 2005 , 280, 34389-92	5.4	63
68	Hormone-sensitive lipase from adipose tissue of rat. <i>Methods in Enzymology</i> , 1981 , 71 Pt C, 636-46	1.7	62
67	Mass and information feedbacks through receptor endocytosis govern insulin signaling as revealed using a parameter-free modeling framework. <i>Journal of Biological Chemistry</i> , 2010 , 285, 20171-9	5.4	61
66	Insulin resistance in human adipocytes occurs downstream of IRS1 after surgical cell isolation but at the level of phosphorylation of IRS1 in type 2 diabetes. <i>FEBS Journal</i> , 2005 , 272, 141-51	5.7	61
65	A hierarchical whole-body modeling approach elucidates the link between in Vitro insulin signaling and in Vivo glucose homeostasis. <i>Journal of Biological Chemistry</i> , 2011 , 286, 26028-41	5.4	59
64	Insulin second messengers. <i>BioEssays</i> , 1997 , 19, 327-35	4.1	56
63	Electrophoretic elution of proteins from polyacrylamide gel slices. <i>Analytical Biochemistry</i> , 1983 , 128, 7-10	3.1	56
62	PPAR-gamma response element activity in intact primary human adipocytes: effects of fatty acids. <i>Nutrition</i> , 2006 , 22, 60-8	4.8	52
61	Functionalized zinc oxide nanorod with ionophore-membrane coating as an intracellular Ca ²⁺ selective sensor. <i>Applied Physics Letters</i> , 2009 , 95, 023703	3.4	49
60	Separation and characterization of caveolae subclasses in the plasma membrane of primary adipocytes; segregation of specific proteins and functions. <i>FEBS Journal</i> , 2006 , 273, 3381-92	5.7	45
59	Regulation of adipose tissue lipolysis: phosphorylation of hormones sensitive lipase in intact rat adipocytes. <i>FEBS Letters</i> , 1980 , 111, 120-4	3.8	45

58	Association and insulin regulated translocation of hormone-sensitive lipase with PTRF. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 350, 657-61	3.4	44
57	6 Hormone-Sensitive Lipase. <i>The Enzymes</i> , 1987 , 147-177	2.3	40
56	A new role for caveolae as metabolic platforms. <i>Trends in Endocrinology and Metabolism</i> , 2007 , 18, 344-98.8		38
55	Caveolins and caveolae, roles in insulin signalling and diabetes. <i>Advances in Experimental Medicine and Biology</i> , 2012 , 729, 111-26	3.6	37
54	Differential regulation of adipocyte PDE3B in distinct membrane compartments by insulin and the beta3-adrenergic receptor agonist CL316243: effects of caveolin-1 knockdown on formation/maintenance of macromolecular signalling complexes. <i>Biochemical Journal</i> , 2009 , 424, 399-410	3.8	37
53	A single mechanism can explain network-wide insulin resistance in adipocytes from obese patients with type 2 diabetes. <i>Journal of Biological Chemistry</i> , 2014 , 289, 33215-30	5.4	36
52	Properties and purification of the catalytic subunit of cyclic AMP-dependent protein kinase of adipose tissue. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1982 , 721, 434-40	4.9	35
51	Model-based hypothesis testing of key mechanisms in initial phase of insulin signaling. <i>PLoS Computational Biology</i> , 2008 , 4, e1000096	5	32
50	Hormonal control of reversible translocation of perilipin B to the plasma membrane in primary human adipocytes. <i>Journal of Biological Chemistry</i> , 2006 , 281, 11446-9	5.4	31
49	The concentration of β -carotene in human adipocytes, but not the whole-body adipocyte stores, is reduced in obesity. <i>PLoS ONE</i> , 2014 , 9, e85610	3.7	31
48	Global differences in specific histone H3 methylation are associated with overweight and type 2 diabetes. <i>Clinical Epigenetics</i> , 2013 , 5, 15	7.7	30
47	A Miniature Graphene-based Biosensor for Intracellular Glucose Measurements. <i>Electrochimica Acta</i> , 2015 , 174, 574-580	6.7	29
46	Insulin signaling - mathematical modeling comes of age. <i>Trends in Endocrinology and Metabolism</i> , 2012 , 23, 107-15	8.8	29
45	Histone variants and their post-translational modifications in primary human fat cells. <i>PLoS ONE</i> , 2011 , 6, e15960	3.7	27
44	Short-term overeating induces insulin resistance in fat cells in lean human subjects. <i>Molecular Medicine</i> , 2009 , 15, 228-34	6.2	25
43	Differential effects of IGF-I, IGF-II and insulin in human preadipocytes and adipocytes--role of insulin and IGF-I receptors. <i>Molecular and Cellular Endocrinology</i> , 2011 , 339, 130-5	4.4	24
42	Phosphorylation of hormone-sensitive lipase by cyclic GMP-dependent protein kinase. <i>FEBS Letters</i> , 1985 , 180, 280-4	3.8	24
41	Intracellular K^+ Determination With a Potentiometric Microelectrode Based on ZnO Nanowires. <i>IEEE Nanotechnology Magazine</i> , 2011 , 10, 913-919	2.6	23

40	Putting the pieces together in diabetes research: towards a hierarchical model of whole-body glucose homeostasis. <i>European Journal of Pharmaceutical Sciences</i> , 2009 , 36, 91-104	5.1	23
39	Phosphorylation of the basal site of hormone-sensitive lipase by glycogen synthase kinase-4. <i>FEBS Letters</i> , 1986 , 209, 175-80	3.8	23
38	Expression of a mutant IRS inhibits metabolic and mitogenic signalling of insulin in human adipocytes. <i>Molecular and Cellular Endocrinology</i> , 2004 , 221, 1-8	4.4	21
37	Autolysis of isolated adipocytes by endogenously produced fatty acids. <i>FEBS Letters</i> , 1990 , 263, 153-4	3.8	21
36	Growth and Structure of ZnO Nanorods on a Sub-Micrometer Glass Pipette and Their Application as Intracellular Potentiometric Selective Ion Sensors. <i>Materials</i> , 2010 , 3, 4657-4667	3.5	19
35	Systems-wide Experimental and Modeling Analysis of Insulin Signaling through Forkhead Box Protein O1 (FOXO1) in Human Adipocytes, Normally and in Type 2 Diabetes. <i>Journal of Biological Chemistry</i> , 2016 , 291, 15806-19	5.4	19
34	Requirements for multi-level systems pharmacology models to reach end-usage: the case of type 2 diabetes. <i>Interface Focus</i> , 2016 , 6, 20150075	3.9	16
33	Phosphorylation of IRS1 at serine 307 and serine 312 in response to insulin in human adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 342, 1183-7	3.4	16
32	Inhibitors of protein phosphatase-1. Inhibitor-1 of bovine adipose tissue and a dopamine- and cAMP-regulated phosphoprotein of bovine brain are identical. <i>FEBS Journal</i> , 1989 , 180, 143-8		16
31	Inhibition of FOXO1 transcription factor in primary human adipocytes mimics the insulin-resistant state of type 2 diabetes. <i>Biochemical Journal</i> , 2018 , 475, 1807-1820	3.8	15
30	Acute effects of insulin on the activity of mitochondrial GPAT1 in primary adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 367, 201-7	3.4	15
29	Insulin and Adrenergic receptors mediate lipolytic and anti-lipolytic signalling that is not altered by type 2 diabetes in human adipocytes. <i>Biochemical Journal</i> , 2019 , 476, 2883-2908	3.8	15
28	Glucose transport is equally sensitive to insulin stimulation, but basal and insulin-stimulated transport is higher, in human omental compared with subcutaneous adipocytes. <i>Metabolism: Clinical and Experimental</i> , 2005 , 54, 781-5	12.7	14
27	Direct evidence for protein phosphatase-catalyzed dephosphorylation/deactivation of hormone-sensitive lipase from adipose tissue. <i>Lipids and Lipid Metabolism</i> , 1984 , 794, 488-91		14
26	Subcutaneous adipocytes from obese hyperinsulinemic women with polycystic ovary syndrome exhibit normal insulin sensitivity but reduced maximal insulin responsiveness. <i>European Journal of Endocrinology</i> , 2005 , 153, 831-5	6.5	13
25	Phosphorylation of IRS1 at serine 307 in response to insulin in human adipocytes is not likely to be catalyzed by p70 ribosomal S6 kinase. <i>PLoS ONE</i> , 2013 , 8, e59725	3.7	12
24	Vectorial proteomics. <i>IUBMB Life</i> , 2005 , 57, 433-40	4.7	12
23	Human, but not rat, IRS1 targets to the plasma membrane in both human and rat adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 363, 840-5	3.4	10

22	Cross-talks via mTORC2 can explain enhanced activation in response to insulin in diabetic patients. <i>Bioscience Reports</i> , 2017 , 37,	4.1	9
21	Combining test statistics and models in bootstrapped model rejection: it is a balancing act. <i>BMC Systems Biology</i> , 2014 , 8, 46	3.5	9
20	Model-Based Quantification of the Systemic Interplay between Glucose and Fatty Acids in the Postprandial State. <i>PLoS ONE</i> , 2015 , 10, e0135665	3.7	9
19	N-terminal processing and modifications of caveolin-1 in caveolae from human adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 320, 480-6	3.4	9
18	Phosphorylation control by insulin in adipocytes is interfered with at a post-receptor step by phosphoinositol and glucosamine. <i>FEBS Letters</i> , 1990 , 268, 169-72	3.8	9
17	Mechanistic explanations for counter-intuitive phosphorylation dynamics of the insulin receptor and insulin receptor substrate-1 in response to insulin in murine adipocytes. <i>FEBS Journal</i> , 2012 , 279, 987-99	5.7	8
16	Adipose tissue protein phosphatase inhibitor-2. <i>FEBS Journal</i> , 1988 , 171, 199-204		8
15	Scaffolding protein IQGAP1: an insulin-dependent link between caveolae and the cytoskeleton in primary human adipocytes?. <i>Biochemical Journal</i> , 2016 , 473, 3177-88	3.8	7
14	Cytoplasmic CREB alpha-like antigens in specific regions of the rat brain. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 225, 256-62	3.4	6
13	Dominant negative inhibition data should be analyzed using mathematical modeling--re-interpreting data from insulin signaling. <i>FEBS Journal</i> , 2015 , 282, 788-802	5.7	4
12	Chapter 8 Insulin Signaling and Caveolae. <i>Advances in Molecular and Cell Biology</i> , 2005 , 141-169		4
11	Synthesis of inositol phosphoglycans containing thiol-terminated spacers for efficient coupling to maleimide functionalized solid phases or proteins. <i>Tetrahedron</i> , 2002 , 58, 4245-4254	2.4	4
10	Adiponectin is secreted via caveolin 1-dependent mechanisms in white adipocytes. <i>Journal of Endocrinology</i> , 2020 , 247, 25-38	4.7	4
9	Translocation of Insulin-Regulated Glucose Transporter Is Stimulated by Long-Chain 1,2-Diacylglycerol in Rat Adipocytes. <i>Experimental Cell Research</i> , 1995 , 221, 238-442	4.2	2
8	Uptake and metabolism of long-chain 1,2-diacylglycerols by rat adipocytes and H4IIE hepatoma cells. <i>Experimental Cell Research</i> , 1995 , 221, 443-7	4.2	2
7	Hormone-sensitive lipase from swine adipose tissue: identification and some properties. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1985 , 80, 609-12		1
6	Zinc Oxide Nanorods and Their Application to Intracellular Glucose Measurements 2012 , 120-140		1
5	A systems biology analysis of lipolysis and fatty acid release from adipocytes in vitro and from adipose tissue in vivo.. <i>PLoS ONE</i> , 2021 , 16, e0261681	3.7	1

4 Multilevel-Modeling, Core Predictions, and the Concept of Final Conclusions **2011**, 311-328

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2 REGULATION OF ADIPOSE TISSUE LIPOLYSIS: PHOSPHORYLATION AND ACTIVATION OF HORMONE-SENSITIVE LIPASE ISOLATED FROM RAT ADIPOSE TISSUE. *Biochemical Society Transactions*, **1981**, 9, 236P-236P 5.1

1 PARTIAL PURIFICATION AND PROPERTIES OF A PROTEIN PHOSPHATASE FROM RAT ADIPOSE TISSUE. *Biochemical Society Transactions*, **1981**, 9, 237P-237P 5.1