

Pierre De Meyts

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/581022/pierre-de-meyts-publications-by-year.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

6,211
citations

38
h-index

78
g-index

95
ext. papers

6,662
ext. citations

6.6
avg, IF

5.51
L-index

#	Paper	IF	Citations
92	Insulin: A 100-Year-Old Discovery With a Fascinating History. <i>Endocrine Reviews</i> , 2021 , 42, 503-527	27.2	3
91	Pancreatic Hormones 2020 , 383-423		1
90	Viral insulin-like peptides activate human insulin and IGF-1 receptor signaling: A paradigm shift for host-microbe interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 2461-2466	11.5	37
89	How ligand binds to the type 1 insulin-like growth factor receptor. <i>Nature Communications</i> , 2018 , 9, 821	17.4	56
88	Insulin-Like Peptides DILP2 and DILP5 Differentially Stimulate Cell Signaling and Glycogen Phosphorylase to Regulate Longevity. <i>Frontiers in Endocrinology</i> , 2018 , 9, 245	5.7	39
87	Structures of insect Imp-L2 suggest an alternative strategy for regulating the bioavailability of insulin-like hormones. <i>Nature Communications</i> , 2018 , 9, 3860	17.4	7
86	Total Solid-Phase Synthesis of Biologically Active Drosophila Insulin-Like Peptide 2 (DILP2). <i>Australian Journal of Chemistry</i> , 2017 , 70, 208-212	1.2	10
85	Early Recombinant Protein Therapeutics. <i>Methods and Principles in Medicinal Chemistry</i> , 2017 , 1-23	0.4	2
84	Pancreatic β cell hyperplasia and hyperglucagonemia due to a glucagon receptor splice mutation. <i>Endocrinology, Diabetes and Metabolism Case Reports</i> , 2016 , 2016,	1.4	27
83	Structural basis for the poisonous activity of a predator's venom insulin. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 872-874	17.6	1
82	p38 MAPK activation upregulates proinflammatory pathways in skeletal muscle cells from insulin-resistant type 2 diabetic patients. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 308, E63-70	6	36
81	Insulin/receptor binding: the last piece of the puzzle? What recent progress on the structure of the insulin/receptor complex tells us (or not) about negative cooperativity and activation. <i>BioEssays</i> , 2015 , 37, 389-97	4.1	70
80	Receptor Tyrosine Kinase Signal Transduction and the Molecular Basis of Signalling Specificity 2015 , 51-76		0
79	Down-regulation of cyclin G2 by insulin, IGF-I (insulin-like growth factor 1) and X10 (AspB10 insulin): role in mitogenesis. <i>Biochemical Journal</i> , 2014 , 457, 69-77	3.8	14
78	IGF-I, IGF-II, and Insulin Stimulate Different Gene Expression Responses through Binding to the IGF-I Receptor. <i>Frontiers in Endocrinology</i> , 2013 , 4, 98	5.7	24
77	The insulin receptor isoform A: a mitogenic proinsulin receptor?. <i>Endocrinology</i> , 2012 , 153, 2054-6	4.8	7
76	Agonism and antagonism at the insulin receptor. <i>PLoS ONE</i> , 2012 , 7, e51972	3.7	35

75	Receptor oligomerization in family B1 of G-protein-coupled receptors: focus on BRET investigations and the link between GPCR oligomerization and binding cooperativity. <i>Frontiers in Endocrinology</i> , 2012 , 3, 62	5.7	30
74	Separation of fast from slow anabolism by site-specific PEGylation of insulin-like growth factor I (IGF-I). <i>Journal of Biological Chemistry</i> , 2011 , 286, 19501-10	5.4	36
73	Insight into the molecular basis for the kinetic differences between the two insulin receptor isoforms. <i>Biochemical Journal</i> , 2011 , 440, 397-403	3.8	24
72	Structural and biological properties of the Drosophila insulin-like peptide 5 show evolutionary conservation. <i>Journal of Biological Chemistry</i> , 2011 , 286, 661-73	5.4	43
71	Gene expression in skeletal muscle biopsies from people with type 2 diabetes and relatives: differential regulation of insulin signaling pathways. <i>PLoS ONE</i> , 2009 , 4, e6575	3.7	73
70	Crystal structure of a "nonfoldable" insulin: impaired folding efficiency despite native activity. <i>Journal of Biological Chemistry</i> , 2009 , 284, 35259-72	5.4	30
69	Dimerization and negative cooperativity in the relaxin family peptide receptors. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1160, 54-9	6.5	12
68	Structural basis of allosteric ligand-receptor interactions in the insulin/relaxin peptide family: implications for other receptor tyrosine kinases and G-protein-coupled receptors. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1160, 45-53	6.5	27
67	Structural basis of the aberrant receptor binding properties of hagfish and lamprey insulins. <i>Biochemistry</i> , 2009 , 48, 11283-95	3.2	13
66	Insulin-like growth factor I (IGF-I) is a more potent regulator of gene expression than insulin in primary human myoblasts and myotubes. <i>Growth Hormone and IGF Research</i> , 2009 , 19, 168-78	2	18
65	Harmonic oscillator model of the insulin and IGF1 receptorsSallosteric binding and activation. <i>Molecular Systems Biology</i> , 2009 , 5, 243	12.2	114
64	Molecular mechanisms of differential intracellular signaling from the insulin receptor. <i>Vitamins and Hormones</i> , 2009 , 80, 51-75	2.5	49
63	The insulin receptor: a prototype for dimeric, allosteric membrane receptors?. <i>Trends in Biochemical Sciences</i> , 2008 , 33, 376-84	10.3	126
62	Negative cooperativity in H2 relaxin binding to a dimeric relaxin family peptide receptor 1. <i>Molecular and Cellular Endocrinology</i> , 2008 , 296, 10-7	4.4	34
61	Alanine scanning of a putative receptor binding surface of insulin-like growth factor-I. <i>Journal of Biological Chemistry</i> , 2008 , 283, 20821-9	5.4	48
60	Structural basis for the lower affinity of the insulin-like growth factors for the insulin receptor. <i>Journal of Biological Chemistry</i> , 2008 , 283, 2604-13	5.4	48
59	Cooperative binding of insulin-like Peptide 3 to a dimeric relaxin family peptide receptor 2. <i>Endocrinology</i> , 2008 , 149, 1113-20	4.8	39
58	Structural Biology of Insulin and IGF-1 Receptors. <i>Novartis Foundation Symposium</i> , 2008 , 160-176		25

57	Activation of the insulin receptor (IR) by insulin and a synthetic peptide has different effects on gene expression in IR-transfected L6 myoblasts. <i>Biochemical Journal</i> , 2008 , 412, 435-45	3.8	23
56	DOK4/IRS-5 expression is altered in clear cell renal cell carcinoma. <i>International Journal of Cancer</i> , 2007 , 121, 992-8	7.5	7
55	Activation of the insulin receptor by insulin and a synthetic peptide leads to divergent metabolic and mitogenic signaling and responses. <i>Journal of Biological Chemistry</i> , 2007 , 282, 35179-86	5.4	52
54	A novel binding site for the human insulin-like growth factor-II (IGF-II)/mannose 6-phosphate receptor on IGF-II. <i>Journal of Biological Chemistry</i> , 2007 , 282, 18886-94	5.4	31
53	The A-chain of insulin contacts the insert domain of the insulin receptor. Photo-cross-linking and mutagenesis of a diabetes-related crevice. <i>Journal of Biological Chemistry</i> , 2007 , 282, 35337-49	5.4	37
52	Insulin and IGF-I Receptor Structure and Binding Mechanism 2007 , 1-32		3
51	Role of histone and transcription factor acetylation in diabetes pathogenesis. <i>Diabetes/Metabolism Research and Reviews</i> , 2005 , 21, 416-33	7.5	114
50	Insulin and its receptor: structure, function and evolution. <i>BioEssays</i> , 2004 , 26, 1351-62	4.1	236
49	How insulin binds: the B-chain alpha-helix contacts the L1 beta-helix of the insulin receptor. <i>Journal of Molecular Biology</i> , 2004 , 341, 529-50	6.5	69
48	IRS-4 mediated mitogenic signalling by insulin and growth hormone in LB cells, a murine T-cell lymphoma devoid of IGF-I receptors. <i>Cellular Signalling</i> , 2003 , 15, 385-94	4.9	6
47	Structural biology of insulin and IGF1 receptors: implications for drug design. <i>Nature Reviews Drug Discovery</i> , 2002 , 1, 769-83	64.1	433
46	Insulin and insulin-like growth factors: the paradox of signaling specificity. <i>Growth Hormone and IGF Research</i> , 2002 , 12, 81-3	2	14
45	Preparation and expression of biologically active prolactin and growth hormone receptors and suppressor of cytokine signaling proteins 1, 2, 3, and 6 tagged with cyan and yellow fluorescent proteins. <i>Protein Expression and Purification</i> , 2002 , 25, 456-64	2	12
44	Timing-dependent modulation of insulin mitogenic versus metabolic signalling. <i>Novartis Foundation Symposium</i> , 2000 , 227, 46-57; discussion 57-60		10
43	Modelling of the disulphide-swapped isomer of human insulin-like growth factor-1: implications for receptor binding. <i>Protein Engineering, Design and Selection</i> , 1999 , 12, 297-303	1.9	22
42	Timing-dependence of insulin-receptor mitogenic versus metabolic signalling: a plausible model based on coincidence of hormone and effector binding. <i>Biochemical Journal</i> , 1999 , 339, 675	3.8	12
41	Inhibition by insulin of glucocorticoid-induced gene transcription: involvement of the ligand-binding domain of the glucocorticoid receptor and independence from the phosphatidylinositol 3-kinase and mitogen-activated protein kinase pathways. <i>Molecular Endocrinology</i> , 1998 , 12, 1343-54		20
40	Insulin and insulin-like growth factor-I receptor mediated differentiation of 3T3-F442A cells into adipocytes: effect of PI 3-kinase inhibition. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 246, 426-30	3.4	33

39	Genetic engineering in mice: impact on insulin signalling and action. <i>Biochemical Journal</i> , 1998 , 335 (Pt 2), 193-204	3.8	48
38	Logical analysis of timing-dependent receptor signalling specificity: application to the insulin receptor metabolic and mitogenic signalling pathways. <i>Biochemical Journal</i> , 1997 , 326 (Pt 2), 463-9	3.8	40
37	P-13: The importance of the exon six encoded domain of the IR and IGF-I-R in ligand binding. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 1996 , 104, 78-78	2.3	
36	O-42: Mitogenic signalling by insulin in a T-cell lymphoma, the LB cell line, devoid of IGF-I receptors: evidence for the lack of involvement of the RAS-MAP kinase pathway and for a possibly novel IRS-like molecule. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 1996 , 104, 52-53	2.3	6
35	P-5: Insulin dose-response curves and IGF-I cross-reactivity in cells expressing only one receptor type: evidence for different requirements for monovalent versus bivalent insulin binding of metabolic and mitogenic signaling. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 1996 , 104, 68-70	2.3	7
34	Biological effects of human growth hormone in rat adipocyte precursor cells and newly differentiated adipocytes in primary culture. <i>Metabolism: Clinical and Experimental</i> , 1996 , 45, 34-42	12.7	45
33	Engineering the C-region of human insulin-like growth factor-1: implications for receptor binding. <i>Protein Engineering, Design and Selection</i> , 1996 , 9, 1011-9	1.9	25
32	Biosensor measurement of the binding of insulin-like growth factors I and II and their analogues to the insulin-like growth factor-binding protein-3. <i>Journal of Biological Chemistry</i> , 1996 , 271, 13948-52	5.4	46
31	Mitogenic and antiadipogenic properties of human growth hormone in differentiating human adipocyte precursor cells in primary culture. <i>Pediatric Research</i> , 1996 , 40, 450-6	3.2	39
30	Role of the time factor in signaling specificity: application to mitogenic and metabolic signaling by the insulin and insulin-like growth factor-I receptor tyrosine kinases. <i>Metabolism: Clinical and Experimental</i> , 1995 , 44, 2-11	12.7	55
29	Mechanism of insulin and IGF-I receptor activation and signal transduction specificity. Receptor dimer cross-linking, bell-shaped curves, and sustained versus transient signaling. <i>Annals of the New York Academy of Sciences</i> , 1995 , 766, 388-401	6.5	62
28	Mitogenic potential of insulin on lymphoma cells lacking IGF-1 receptor. <i>Annals of the New York Academy of Sciences</i> , 1995 , 766, 409-15	6.5	17
27	The insulin-like growth factor-I receptor. Structure, ligand-binding mechanism and signal transduction. <i>Hormone Research</i> , 1994 , 42, 152-69		192
26	The diabetogenes concept of NIDDM. <i>Advances in Experimental Medicine and Biology</i> , 1993 , 334, 89-100	3.6	17
25	Structure of growth hormone and its receptor: an unexpected stoichiometry. <i>Trends in Biochemical Sciences</i> , 1992 , 17, 169-70	10.3	7
24	Measuring growth hormone activity through receptor and binding protein assays. <i>Hormone Research</i> , 1991 , 36 Suppl 1, 21-6		7
23	Identification of a ligand-binding region of the human insulin receptor encoded by the second exon of the gene. <i>Molecular Endocrinology</i> , 1990 , 4, 409-16		87
22	Binding kinetics of mutated insulin receptors in transfected cells grown in suspension culture: application to the Tyr----Phe 960 insulin receptor mutant. <i>Biochemical and Biophysical Research Communications</i> , 1989 , 164, 191-8	3.4	7

21	Acridine orange, an inhibitor of protein kinase C, abolishes insulin and growth hormone stimulation of lipogenesis in rat adipocytes. <i>FEBS Letters</i> , 1989 , 244, 465-8	3.8	23
20	Reversal of insulin-induced negative cooperativity by monoclonal antibodies that stabilize the slowly dissociating ("Ksuper") state of the insulin receptor. <i>Biochemical and Biophysical Research Communications</i> , 1988 , 150, 694-701	3.4	28
19	Role of kinase C in the insulin-like effects of human growth hormone in rat adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 1987 , 147, 1232-40	3.4	49
18	Carbohydrate metabolism in women who used oral contraceptives containing levonorgestrel or desogestrel: a 6-month prospective study. <i>Fertility and Sterility</i> , 1986 , 45, 635-42	4.8	49
17	The receptor binding properties of the 20K variant of human growth hormone explain its discrepant insulin-like and growth promoting activities. <i>Biochemical and Biophysical Research Communications</i> , 1986 , 134, 159-65	3.4	32
16	A rapid method for the preparation of ¹²⁵ I-labelled human growth hormone for receptor studies, using reverse-phase high performance liquid chromatography. <i>Biochemical and Biophysical Research Communications</i> , 1986 , 134, 671-7	3.4	5
15	Glycosylation of cell surface receptors: tunicamycin treatment decreases insulin and growth hormone binding to different levels in cultured lymphocytes. <i>Biochemical and Biophysical Research Communications</i> , 1981 , 101, 22-9	3.4	31
14	Impaired negative cooperativity of the semisynthetic analogues human [LeuB24]- and [LeuB25]-insulins. <i>Biochemical and Biophysical Research Communications</i> , 1981 , 100, 1229-36	3.4	40
13	Regulation of receptor by homologous hormone enhances sensitivity and broadens scope of radioreceptor assay for human growth hormone. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1979 , 49, 262-8	5.6	15
12	The insulin receptor in vertebrates is functionally more conserved during evolution than insulin itself. <i>Endocrinology</i> , 1979 , 104, 1393-402	4.8	149
11	Mapping of the residues responsible for the negative cooperativity of the receptor-binding region of insulin. <i>Nature</i> , 1978 , 273, 504-9	50.4	219
10	THE STRUCTURAL BASIS OF INSULIN-RECEPTOR BINDING AND COOPERATIVE INTERACTIONS 1978 , 319-323		
9	Insulin-induced dissociation of its receptor into subunits: possible molecular concomitant of negative cooperativity. <i>Biochemical and Biophysical Research Communications</i> , 1976 , 73, 1068-74	3.4	87
8	Cooperative properties of hormone receptors in cell membranes. <i>Journal of Supramolecular Structure</i> , 1976 , 4, 241-58		143
7	Fluctuations in the affinity and concentration of insulin receptors on circulating monocytes of obese patients: effects of starvation, refeeding, and dieting. <i>Journal of Clinical Investigation</i> , 1976 , 58, 1123-35	15.9	317
6	Cooperative Regulation of Hormone Binding Affinity for Cell Surface Receptors 1976 , 215-226		
5	Cooperativity in ligand binding: a new graphic analysis. <i>Biochemical and Biophysical Research Communications</i> , 1975 , 66, 1118-26	3.4	329
4	Beta-adrenergic receptors: evidence for negative cooperativity. <i>Biochemical and Biophysical Research Communications</i> , 1975 , 64, 1160-8	3.4	178

- 3 Receptors for insulin, NSILA-s, and growth hormone: applications to disease states in man. *Endocrine Reviews*, **1975**, 31, 95-139 61
- 2 Insulin-dependent regulation of insulin receptor concentrations: a direct demonstration in cell culture. *Proceedings of the National Academy of Sciences of the United States of America*, **1974**, 71, 84-8 11.5 819
- 1 Insulin interactions with its receptors: experimental evidence for negative cooperativity. *Biochemical and Biophysical Research Communications*, **1973**, 55, 154-61 3.4 636