George G Holz

List of Publications by Year in Descending Order

123 papers	7,939 citations	50 h-index	88 g-index
132 ext. papers	8,419 ext. citations	5.3 avg, IF	5.77 L-index

#	Paper	IF	Citations
123	Intra-islet glucagon confers β-cell glucose competence for first-phase insulin secretion and favors GLP-1R stimulation by exogenous glucagon.. *Journal of Biological Chemistry*, **2021**, 101484	5.4	2
122	Synthesis, Optimization, and Biological Evaluation of Corrinated Conjugates of the GLP-1R Agonist Exendin-4. *Journal of Medicinal Chemistry*, **2021**, 64, 3479-3492	8.3	1
121	Cyclic AMP-dependent activation of ERK via GLP-1 receptor signalling requires the neuroendocrine cell-specific guanine nucleotide exchanger NCS-RapGEF2. *Journal of Neuroendocrinology*, **2021**, 33, e12974	3.8	0
120	Design and Evaluation of Peptide Dual-Agonists of GLP-1 and NPY2 Receptors for Glucoregulation and Weight Loss with Mitigated Nausea and Emesis. *Journal of Medicinal Chemistry*, **2021**, 64, 1127-1138	8.3	5
119	Synthesis, in vitro biological investigation, and molecular dynamics simulations of thiazolopyrimidine based compounds as corticotrophin releasing factor receptor-1 antagonists. *Bioorganic Chemistry*, **2021**, 114, 105079	5.1	0
118	[Tc]Tc-DGA1, a Promising CCKR-Antagonist-Based Tracer for Tumor Diagnosis with Single-Photon Emission Computed Tomography. *Molecular Pharmaceutics*, **2020**, 17, 3116-3128	5.6	2
117	FRET Reporter Assays for cAMP and Calcium in a 96-well Format Using Genetically Encoded Biosensors Expressed in Living Cells. *Bio-protocol*, **2020**, 10,	0.9	4
116	Discovery of a stable tripeptide targeting the N-domain of CRF1 receptor. *Amino Acids*, **2020**, 52, 1337-1351	3.5	1
115	Corrination of a GLP-1 Receptor Agonist for Glycemic Control without Emesis. *Cell Reports*, **2020**, 31, 107768	10.6	9
114	Therapeutic potential of α7 nicotinic acetylcholine receptor agonists to combat obesity, diabetes, and inflammation. *Reviews in Endocrine and Metabolic Disorders*, **2020**, 21, 431-447	10.5	7
113	"A-kinase" regulator runs amok to provide a paradigm shift in cAMP signaling. *Journal of Biological Chemistry*, **2019**, 294, 2247-2248	5.4	3
112	Nonconventional glucagon and GLP-1 receptor agonist and antagonist interplay at the GLP-1 receptor revealed in high-throughput FRET assays for cAMP. *Journal of Biological Chemistry*, **2019**, 294, 3514-3531	5.4	15
111	Chimeric peptide EP45 as a dual agonist at GLP-1 and NPY2R receptors. *Scientific Reports*, **2018**, 8, 3749	4.9	26
110	A vitamin B12 conjugate of exendin-4 improves glucose tolerance without associated nausea or hypophagia in rodents. *Diabetes, Obesity and Metabolism*, **2018**, 20, 1223-1234	6.7	18
109	Restoration of Glucose-Stimulated Cdc42-Pak1 Activation and Insulin Secretion by a Selective Epac Activator in Type 2 Diabetic Human Islets. *Diabetes*, **2018**, 67, 1999-2011	0.9	13
108	α7 Nicotinic Acetylcholine Receptor Regulates the Function and Viability of L Cells. *Endocrinology*, **2018**, 159, 3132-3142	4.8	5
107	Synthetic small molecule GLP-1 secretagogues prepared by means of a three-component indole annulation strategy. *Scientific Reports*, **2016**, 6, 28934	4.9	16

106	Solution Structure and Constrained Molecular Dynamics Study of Vitamin B12 Conjugates of the Anorectic Peptide PYY(3-36). *ChemMedChem*, **2016**, 11, 1015-21	3.7	6
105	PI3 kinases p110 and PI3K-C2 negatively regulate cAMP via PDE3/8 to control insulin secretion in mouse and human islets. *Molecular Metabolism*, **2016**, 5, 459-471	8.8	9
104	GPR119 Agonist AS1269574 Activates TRPA1 Cation Channels to Stimulate GLP-1 Secretion. *Molecular Endocrinology*, **2016**, 30, 614-29		15
103	Modeling analysis of inositol 1,4,5-trisphosphate receptor-mediated Ca2+ mobilization under the control of glucagon-like peptide-1 in mouse pancreatic cells. *American Journal of Physiology - Cell Physiology*, **2016**, 310, C337-47	5.4	7
102	Rp-cAMPS Prodrugs Reveal the cAMP Dependence of First-Phase Glucose-Stimulated Insulin Secretion. *Molecular Endocrinology*, **2015**, 29, 988-1005		27
101	Enhanced Peptide Stability Against Protease Digestion Induced by Intrinsic Factor Binding of a Vitamin B12 Conjugate of Exendin-4. *Molecular Pharmaceutics*, **2015**, 12, 3502-6	5.6	13
100	Vitamin B12 conjugation of peptide-YY(3-36) decreases food intake compared to native peptide-YY(3-36) upon subcutaneous administration in male rats. *Endocrinology*, **2015**, 156, 1739-49	4.8	20
99	Molecular Basis of cAMP Signaling in Pancreatic Cells **2015**, 565-603		1
98	New insights concerning the molecular basis for defective glucoregulation in soluble adenylyl cyclase knockout mice. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2014**, 1842, 2593-600	6.9	12
97	Regulation of glucose homeostasis by GLP-1. *Progress in Molecular Biology and Translational Science* , **2014**, 121, 23-65	4	127
96	CO2/HCO3 and calcium-regulated soluble adenylyl cyclase as a physiological ATP sensor.. *Journal of Biological Chemistry*, **2014**, 289, 12679	5.4	78
95	Molecular Basis of cAMP Signaling in Pancreatic Beta Cells **2014**, 1-36		
94	Molecular Basis of cAMP Signaling in Pancreatic Beta Cells **2014**, 1-35		
93	CO2/HCO3(-)- and calcium-regulated soluble adenylyl cyclase as a physiological ATP sensor. *Journal of Biological Chemistry*, **2013**, 288, 33283-91	5.4	84
92	Synthesis, characterization and pharmacodynamics of vitamin-B(12)-conjugated glucagon-like peptide-1. *ChemMedChem*, **2013**, 8, 582-6	3.7	24
91	Identification and characterization of small molecules as potent and specific EPAC2 antagonists. *Journal of Medicinal Chemistry*, **2013**, 56, 952-62	8.3	55
90	Stimulation of proglucagon gene expression by human GPR119 in enteroendocrine L-cell line GLUTag. *Molecular Endocrinology*, **2013**, 27, 1267-82		25
89	Epac2A makes a new impact in cell biology. *Diabetes*, **2013**, 62, 2665-6	0.9	9

88	Leptin-stimulated KATP channel trafficking: a new paradigm for ß-cell stimulus-secretion coupling?. *Islets*, **2013**, 5, 229-32	2	12
87	Role of phospholipase C□n physiological phosphoinositide signaling networks. *Cellular Signalling*, **2012**, 24, 1333-43	4.9	103
86	Isoform-specific antagonists of exchange proteins directly activated by cAMP. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 18613-8	11.5	104
85	cAMP Sensor Epac and Gastrointestinal Function **2012**, 1849-1861		
84	Molecular physiology of glucagon-like peptide-1 insulin secretagogue action in pancreatic ß-cells. *Progress in Biophysics and Molecular Biology*, **2011**, 107, 236-47	4.7	85
83	Phospholipase C-□links Epac2 activation to the potentiation of glucose-stimulated insulin secretion from mouse islets of Langerhans. *Islets*, **2011**, 3, 121-8	2	58
82	Epac2-dependent mobilization of intracellular Ca2+ by glucagon-like peptide-1 receptor agonist exendin-4 is disrupted in ß-cells of phospholipase C-□knockout mice. *Journal of Physiology*, **2010**, 588, 4871-89	3.9	53
81	PKA-dependent potentiation of glucose-stimulated insulin secretion by Epac activator 8-pCPT-2PO-Me-cAMP-AM in human islets of Langerhans. *American Journal of Physiology - Endocrinology and Metabolism*, **2010**, 298, E622-33	6	58
80	Facilitation of ßcell K(ATP) channel sulfonylurea sensitivity by a cAMP analog selective for the cAMP-regulated guanine nucleotide exchange factor Epac. *Islets*, **2010**, 2, 72-81	2	40
79	Epac2-dependent rap1 activation and the control of islet insulin secretion by glucagon-like peptide-1. *Vitamins and Hormones*, **2010**, 84, 279-302	2.5	52
78	Enhanced Rap1 activation and insulin secretagogue properties of an acetoxymethyl ester of an Epac-selective cyclic AMP analog in rat INS-1 cells: studies with 8-pCPT-2PO-Me-cAMP-AM. *Journal of Biological Chemistry*, **2009**, 284, 10728-36	5.4	53
77	Glucose-dependent potentiation of mouse islet insulin secretion by Epac activator 8-pCPT-2PO-Me-cAMP-AM. *Islets*, **2009**, 1, 260-5	2	30
76	Glucagon-like peptide-1 induced signaling and insulin secretion do not drive fuel and energy metabolism in primary rodent pancreatic beta-cells. *PLoS ONE*, **2009**, 4, e6221	3.7	49
75	Role of the cAMP sensor Epac as a determinant of KATP channel ATP sensitivity in human pancreatic beta-cells and rat INS-1 cells. *Journal of Physiology*, **2008**, 586, 1307-19	3.9	68
74	Epac-selective cAMP analogs: new tools with which to evaluate the signal transduction properties of cAMP-regulated guanine nucleotide exchange factors. *Cellular Signalling*, **2008**, 20, 10-20	4.9	144
73	Cytosolic adenylate kinases regulate K-ATP channel activity in human beta-cells. *Biochemical and Biophysical Research Communications*, **2008**, 368, 614-9	3.4	21
72	A novel cyclic adenosine monophosphate responsive luciferase reporter incorporating a nonpalindromic cyclic adenosine monophosphate response element provides optimal performance for use in G protein coupled receptor drug discovery efforts. *Journal of Biomolecular Screening*, **2007**, 12, 740-6		50
71	Simultaneous optical measurements of cytosolic Ca2+ and cAMP in single cells. *Sciencels STKE: Signal Transduction Knowledge Environment*, **2006**, 2006, pl6		29

70	cAMP sensor Epac as a determinant of ATP-sensitive potassium channel activity in human pancreatic beta cells and rat INS-1 cells. *Journal of Physiology*, **2006**, 573, 595-609	3.9	107
69	Cell physiology of cAMP sensor Epac. *Journal of Physiology*, **2006**, 577, 5-15	3.9	216
68	A cAMP and Ca2+ coincidence detector in support of Ca2+-induced Ca2+ release in mouse pancreatic beta cells. *Journal of Physiology*, **2005**, 566, 173-88	3.9	103
67	Interplay of Ca2+ and cAMP signaling in the insulin-secreting MIN6 beta-cell line. *Journal of Biological Chemistry*, **2005**, 280, 31294-302	5.4	165
66	Diabetes outfoxed by GLP-1?. *Science Signaling*, **2005**, 2005, pe2	8.8	26
65	Epac: A new cAMP-binding protein in support of glucagon-like peptide-1 receptor-mediated signal transduction in the pancreatic beta-cell. *Diabetes*, **2004**, 53, 5-13	0.9	291
64	Epac-selective cAMP analog 8-pCPT-2PO-Me-cAMP as a stimulus for Ca2+-induced Ca2+ release and exocytosis in pancreatic beta-cells. *Journal of Biological Chemistry*, **2003**, 278, 8279-85	5.4	238
63	Glucagon-like peptide-1 synthetic analogs: new therapeutic agents for use in the treatment of diabetes mellitus. *Current Medicinal Chemistry*, **2003**, 10, 2471-83	4.3	109
62	Glucagon-like peptide-1 mobilizes intracellular Ca2+ and stimulates mitochondrial ATP synthesis in pancreatic MIN6 beta-cells. *Biochemical Journal*, **2003**, 369, 287-99	3.8	165
61	Amplification of exocytosis by Ca2+-induced Ca2+ release in INS-1 pancreatic beta cells. *Journal of Physiology*, **2003**, 546, 175-89	3.9	63
60	In vivo derivation of glucose-competent pancreatic endocrine cells from bone marrow without evidence of cell fusion. *Journal of Clinical Investigation*, **2003**, 111, 843-850	15.9	525
59	Syntaxin-3 and syntaxin-1A inhibit L-type calcium channel activity, insulin biosynthesis and exocytosis in beta-cell lines. *Diabetologia*, **2002**, 45, 231-41	10.3	51
58	Over-expression of the glucagon-like peptide-1 receptor on INS-1 cells confers autocrine stimulation of insulin gene promoter activity: a strategy for production of pancreatic beta-cell lines for use in transplantation. *Cell and Tissue Research*, **2002**, 307, 191-201	4.2	16
57	Exendin-4 as a stimulator of rat insulin I gene promoter activity via bZIP/CRE interactions sensitive to serine/threonine protein kinase inhibitor Ro 31-8220. *Endocrinology*, **2002**, 143, 2303-13	4.8	43
56	cAMP-regulated guanine nucleotide exchange factor II (Epac2) mediates Ca2+-induced Ca2+ release in INS-1 pancreatic beta-cells. *Journal of Physiology*, **2001**, 536, 375-85	3.9	164
55	Glucagon-Like Peptide-1: An Insulinotropic Hormone With Potent Growth Factor Actions at the Pancreatic Islets of Langerhans. *Growth Hormone*, **2001**, 109-141		1
54	Glucagon-like peptide 1 stimulates insulin gene promoter activity by protein kinase A-independent activation of the rat insulin I gene cAMP response element. *Diabetes*, **2000**, 49, 1156-64	0.9	99
53	Expression of cAMP-regulated guanine nucleotide exchange factors in pancreatic beta-cells. *Biochemical and Biophysical Research Communications*, **2000**, 278, 44-7	3.4	53

52	Insulinotropic toxins as molecular probes for analysis of glucagon-likepeptide-1 receptor-mediated signal transduction in pancreatic beta-cells. *Biochimie*, **2000**, 82, 915-26	4.6	14
51	Leptin suppression of insulin secretion and gene expression in human pancreatic islets: implications for the development of adipogenic diabetes mellitus. *Journal of Clinical Endocrinology and Metabolism*, **1999**, 84, 670-6	5.6	205
50	cAMP-dependent mobilization of intracellular Ca2+ stores by activation of ryanodine receptors in pancreatic beta-cells. A Ca2+ signaling system stimulated by the insulinotropic hormone glucagon-like peptide-1-(7-37). *Journal of Biological Chemistry*, **1999**, 274, 14147-56	5.4	172
49	Leptin Suppression of Insulin Secretion and Gene Expression in Human Pancreatic Islets: Implications for the Development of Adipogenic Diabetes Mellitus. *Journal of Clinical Endocrinology and Metabolism*, **1999**, 84, 670-676	5.6	176
48	Pertussis toxin-sensitive GTP-binding proteins characterized in synaptosomal fractions of embryonic avian cerebral cortex. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **1998**, 119, 201-11	2.3	3
47	Black widow spider alpha-latrotoxin: a presynaptic neurotoxin that shares structural homology with the glucagon-like peptide-1 family of insulin secretagogic hormones. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **1998**, 121, 177-84	2.3	34
46	Glucagon-Like Peptide-1 and the Glucose Competence Concept of Pancreatic Beta-Cell Function. *Frontiers in Diabetes*, **1997**, 13, 171-193	0.6	
45	Signal transduction of PACAP and GLP-1 in pancreatic beta cells. *Annals of the New York Academy of Sciences*, **1996**, 805, 81-92; discussion 92-3	6.5	33
44	Activation of a cAMP-regulated Ca2+-Signaling Pathway in Pancreatic ╫-Cells by the Insulinotropic Hormone Glucagon-like Peptide-1. *Journal of Biological Chemistry*, **1995**, 270, 17749-17757	5.4	111
43	Application of patch clamp methods to the study of calcium currents and calcium channels. *Methods in Cell Biology*, **1994**, 40, 135-51	1.8	10
42	Pancreatic beta-cells are rendered glucose-competent by the insulinotropic hormone glucagon-like peptide-1(7-37). *Nature*, **1993**, 361, 362-5	50.4	508
41	Signal transduction crosstalk in the endocrine system: pancreatic beta-cells and the glucose competence concept. *Trends in Biochemical Sciences*, **1992**, 17, 388-93	10.3	111
40	Receptor-Mediated Alterations of Calcium Channel Function in the Regulation of Neurosecretion **1990**, 107-114		1
39	G proteins couple alpha-adrenergic and GABAb receptors to inhibition of peptide secretion from peripheral sensory neurons. *Journal of Neuroscience*, **1989**, 9, 657-66	6.6	89
38	The activity of ketoconazole and other azoles against Trypanosoma cruzi: biochemistry and chemotherapeutic action in vitro. *Molecular and Biochemical Parasitology*, **1989**, 32, 179-89	1.9	64
37	Effects of thiastearic acids on growth and on dihydrosterculic acid and other phospholipid fatty acyl groups of Leishmania promastigotes. *Molecular and Biochemical Parasitology*, **1989**, 35, 57-66	1.9	10
36	Sufentanil, morphine, met-enkephalin, and kappa-agonist (U-50,488H) inhibit substance P release from primary sensory neurons: a model for presynaptic spinal opioid actions. *Anesthesiology*, **1989**, 70, 672-7	4.3	60
35	Effects of a Squalene-2,3-Epoxidase Inhibitor on Propagation and Sterol Biosynthesis of Leishmania Promastigotes and Amastigotes **1989**, 885-890		2

34	Effects of Lanosterol-14Ð Demethylation Inhibitors on Propagation and Sterol Biosynthesis of Leishmania Promastigotes and Amastigotes **1989**, 765-771		2
33	Effects of antimycotic azoles on growth and sterol biosynthesis of Leishmania promastigotes. *Molecular and Biochemical Parasitology*, **1988**, 31, 149-62	1.9	94
32	Characterization of the electrically evoked release of substance P from dorsal root ganglion neurons: methods and dihydropyridine sensitivity. *Journal of Neuroscience*, **1988**, 8, 463-71	6.6	174
31	Functional Implications of Calcium Channel Modulation in Embryonic Dorsal Root Ganglion Neurons **1988**, 255-262		1
30	G proteins as regulators of ion channel function. *Trends in Neurosciences*, **1987**, 10, 241-244	13.3	149
29	Dihydropyridine inhibition of neuronal calcium current and substance P release. *Pflugers Archiv European Journal of Physiology*, **1987**, 409, 361-6	4.6	161
28	Tegument galactosylceramides of the cestode Spirometra mansonoides. *Molecular and Biochemical Parasitology*, **1987**, 26, 99-111	1.9	23
27	GTP-binding proteins mediate transmitter inhibition of voltage-dependent calcium channels. *Nature*, **1986**, 319, 670-2	50.4	614
26	Effects of ketoconazole on sterol biosynthesis by Leishmania mexicana mexicana amastigotes in murine macrophage tumor cells. *Molecular and Biochemical Parasitology*, **1986**, 20, 85-92	1.9	80
25	Effects of ketoconazole on sterol biosynthesis by Trypanosoma cruzi epimastigotes. *Biochemical and Biophysical Research Communications*, **1986**, 136, 851-6	3.4	59
24	Serotonin decreases the duration of action potentials recorded from tetraethylammonium-treated bullfrog dorsal root ganglion cells. *Journal of Neuroscience*, **1986**, 6, 620-6	6.6	36
23	Sterols of ketoconazole-inhibited Leishmania mexicana mexicana promastigotes. *Molecular and Biochemical Parasitology*, **1985**, 15, 257-79	1.9	71
22	Serotonin depolarizes type A and C primary afferents: an intracellular study in bullfrog dorsal root ganglion. *Brain Research*, **1985**, 327, 71-9	3.7	36
21	Effect of the allylamine antifungal drug SF 86-327 on the growth and sterol synthesis of Leishmania mexicana mexicana promastigotes. *Biochemical Pharmacology*, **1985**, 34, 3785-8	6	27
20	Sterols of Leishmania species. Implications for biosynthesis. *Molecular and Biochemical Parasitology*, **1984**, 10, 161-70	1.9	107
19	Identification of (24S)-24-methylcholesta-5,22-dien-3Ħ-ol as the major sterol of a marine cryptophyte and a marine prymnesiophyte. *Phytochemistry*, **1983**, 22, 475-476	4	44
18	Some Phytomonas and Herpetomonas species form unique iso-branched polyunsaturated fatty acids. *Molecular and Biochemical Parasitology*, **1982**, 5, 1-18	1.9	13
17	The cyclopropane fatty acid of trypanosomatids. *Molecular and Biochemical Parasitology*, **1981**, 3, 103-15	1.9	27

16	Lipids of stages in the life-cycle of the cestode Spirometra mansonoides. *Molecular and Biochemical Parasitology*, **1980**, 1, 249-68	1.9	11
15	Benzoquinones in stages of the life-cycle of the cestode Spirometra mansonoides. *Molecular and Biochemical Parasitology*, **1980**, 1, 269-78	1.9	7
14	Dehydrodinosterol, dinosterone and related sterols of a non-photosynthetic dinoflagellate, Crypthecodinium cohnii. *Phytochemistry*, **1978**, 17, 1987-1989	4	78
13	Observations on the ultrastructure of Uronema spp., marine scuticociliates. *Journal of Protozoology* , **1976**, 23, 503-17		23
12	Biosynthesis of oleic acid and docosahexaenoic acid by a heterotrophic marine dinoflagellate Crypthecodinium cohnii. *Lipids and Lipid Metabolism*, **1974**, 369, 16-24		19
11	The Lipids of Cestodes from Pacific and Atlantic Coast Triakid Sharks. *Journal of Parasitology*, **1971**, 57, 1272	0.9	11
10	The polyunsaturated fatty acids of marine dinoflagellates. *Journal of Protozoology*, **1970**, 17, 213-9		99
9	The Polyunsaturated Fatty Acids of Marine and Freshwater Cryptomonads1. *Journal of Protozoology*, **1970**, 17, 501-510		36
8	Effect of dietary cholesterol on unsaturated fatty acid biosynthesis in a ciliated protozoan. *Lipids and Lipid Metabolism*, **1966**, 125, 614-6		13
7	Biosynthesis of Lipids by Kinetoplastid Flagellates. *Journal of Biological Chemistry*, **1966**, 241, 5000-5007	5.4	67
6	Production of a vitamin B12 compound by tetrahymenids. *Journal of Protozoology*, **1962**, 9, 211-4		5
5	The Sterol Requirement of Tetrahymena paravorax RP*. *Journal of Protozoology*, **1961**, 8, 297-300		24
4	Some Physiological Characteristics of the Mating Types and Varieties of Tetrahymena pyriformis* *Journal of Protozoology*, **1959**, 6, 149-156		28
3	Tetrahymena setifera n.sp., a Member of the Genus Tetrahymena with a Caudal Cilium*. *Journal of Protozoology*, **1956**, 3, 112-118		24
2	The Oxidative Metabolism of a Cryptomonad Flagellate, Chilomonas paramecium*. *Journal of Protozoology*, **1954**, 1, 114-120		29
1	Exendin-4 as a Stimulator of Rat Insulin I Gene Promoter Activity via bZIP/CRE Interactions Sensitive to Serine/Threonine Protein Kinase Inhibitor Ro 31-8220		19