

Birgitte Holst

List of Publications by Year in descending order

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64
papers

4,005
citations

159358

30
h-index

118652

62
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68
all docs

68
docs citations

68
times ranked

5015
citing authors

#	ARTICLE	IF	CITATIONS
1	High Constitutive Signaling of the Ghrelin Receptor—Identification of a Potent Inverse Agonist. <i>Molecular Endocrinology</i> , 2003, 17, 2201-2210.	3.7	455
2	GPR39 Signaling Is Stimulated by Zinc Ions But Not by Obestatin. <i>Endocrinology</i> , 2007, 148, 13-20.	1.4	371
3	Common Structural Basis for Constitutive Activity of the Ghrelin Receptor Family. <i>Journal of Biological Chemistry</i> , 2004, 279, 53806-53817.	1.6	303
4	FGF21 Mediates Endocrine Control of Simple Sugar Intake and Sweet Taste Preference by the Liver. <i>Cell Metabolism</i> , 2016, 23, 335-343.	7.2	270
5	GPR40 (FFAR1) — Combined Gs and Gq signaling <i>in vitro</i> is associated with robust incretin secretagogue action <i>ex vivo</i> and <i>in vivo</i> . <i>Molecular Metabolism</i> , 2015, 4, 3-14.	3.0	175
6	Constitutive ghrelin receptor activity as a signaling set-point in appetite regulation. <i>Trends in Pharmacological Sciences</i> , 2004, 25, 113-117.	4.0	159
7	The Melanocortin-4 Receptor Is Expressed in Enteroendocrine L Cells and Regulates the Release of Peptide YY and Glucagon-like Peptide 1 <i>In vivo</i> . <i>Cell Metabolism</i> , 2014, 20, 1018-1029.	7.2	139
8	A Conserved Aromatic Lock for the Tryptophan Rotameric Switch in TM-VI of Seven-transmembrane Receptors. <i>Journal of Biological Chemistry</i> , 2010, 285, 3973-3985.	1.6	126
9	Neurotensin Is Coexpressed, Coreleased, and Acts Together With GLP-1 and PYY in Enteroendocrine Control of Metabolism. <i>Endocrinology</i> , 2016, 157, 176-194.	1.4	119
10	Proteomics-Based Comparative Mapping of the Secretomes of Human Brown and White Adipocytes Reveals EPDR1 as a Novel Batokine. <i>Cell Metabolism</i> , 2019, 30, 963-975.e7.	7.2	109
11	<i>In Vivo</i> Characterization of High Basal Signaling from the Ghrelin Receptor. <i>Endocrinology</i> , 2009, 150, 4920-4930.	1.4	105
12	Metal Ion-mediated Agonism and Agonist Enhancement in Melanocortin MC1 and MC4 Receptors. <i>Journal of Biological Chemistry</i> , 2002, 277, 47662-47670.	1.6	98
13	Ghrelin receptor mutations – too little height and too much hunger. <i>Journal of Clinical Investigation</i> , 2006, 116, 637-641.	3.9	92
14	Metal Ion Site Engineering Indicates a Global Toggle Switch Model for Seven-transmembrane Receptor Activation. <i>Journal of Biological Chemistry</i> , 2006, 281, 17337-17346.	1.6	88
15	Ghrelin Receptor Inverse Agonists: Identification of an Active Peptide Core and Its Interaction Epitopes on the Receptor. <i>Molecular Pharmacology</i> , 2006, 70, 936-946.	1.0	82
16	G Protein-Coupled Receptor 39 Deficiency Is Associated with Pancreatic Islet Dysfunction. <i>Endocrinology</i> , 2009, 150, 2577-2585.	1.4	82
17	GPR119, a Major Enteroendocrine Sensor of Dietary Triglyceride Metabolites Coacting in Synergy With FFA1 (GPR40). <i>Endocrinology</i> , 2016, 157, 4561-4569.	1.4	77
18	Identification of an Efficacy Switch Region in the Ghrelin Receptor Responsible for Interchange between Agonism and Inverse Agonism. <i>Journal of Biological Chemistry</i> , 2007, 282, 15799-15811.	1.6	73

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19	PICK1 Deficiency Impairs Secretory Vesicle Biogenesis and Leads to Growth Retardation and Decreased Glucose Tolerance. <i>PLoS Biology</i> , 2013, 11, e1001542.	2.6	73
20	Overlapping Binding Site for the Endogenous Agonist, Small-Molecule Agonists, and Ago-allosteric Modulators on the Ghrelin Receptor. <i>Molecular Pharmacology</i> , 2009, 75, 44-59.	1.0	66
21	Molecular Mechanism of Agonism and Inverse Agonism in the Melanocortin Receptors. <i>Annals of the New York Academy of Sciences</i> , 2003, 994, 1-11.	1.8	64
22	Effects of Peripheral Neurotensin on Appetite Regulation and Its Role in Gastric Bypass Surgery. <i>Endocrinology</i> , 2016, 157, 3482-3492.	1.4	58
23	Deficiency of the GPR39 receptor is associated with obesity and altered adipocyte metabolism. <i>FASEB Journal</i> , 2011, 25, 3803-3814.	0.2	45
24	Anxiolytic-Like Effects of Increased Ghrelin Receptor Signaling in the Amygdala. <i>International Journal of Neuropsychopharmacology</i> , 2016, 19, pyv123.	1.0	44
25	Unique Interaction Pattern for a Functionally Biased Ghrelin Receptor Agonist. <i>Journal of Biological Chemistry</i> , 2011, 286, 20845-20860.	1.6	42
26	Translating biased signaling in the ghrelin receptor system into differential in vivo functions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10255-E10264.	3.3	37
27	Hepatic NAD ⁺ levels and NAMPT abundance are unaffected during prolonged high-fat diet consumption in C57BL/6J BomTac mice. <i>Molecular and Cellular Endocrinology</i> , 2018, 473, 245-256.	1.6	35
28	Transcriptomic analysis links diverse hypothalamic cell types to fibroblast growth factor 1-induced sustained diabetes remission. <i>Nature Communications</i> , 2020, 11, 4458.	5.8	34
29	The Complex Signaling Pathways of the Ghrelin Receptor. <i>Endocrinology</i> , 2020, 161, .	1.4	34
30	Modulation of Constitutive Activity and Signaling Bias of the Ghrelin Receptor by Conformational Constraint in the Second Extracellular Loop. <i>Journal of Biological Chemistry</i> , 2012, 287, 33488-33502.	1.6	33
31	Long-Acting Neurotensin Synergizes With Liraglutide to Reverse Obesity Through a Melanocortin-Dependent Pathway. <i>Diabetes</i> , 2019, 68, 1329-1340.	0.3	33
32	Model-Based Discovery of Synthetic Agonists for the Zn ²⁺ -Sensing G-Protein-Coupled Receptor 39 (GPR39) Reveals Novel Biological Functions. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 886-898.	2.9	29
33	Synthesis and evaluation of novel lipidated neuromedin U analogs with increased stability and effects on food intake. <i>Journal of Peptide Science</i> , 2015, 21, 85-94.	0.8	28
34	Metabolic insights from a GHSR-A203E mutant mouse model. <i>Molecular Metabolism</i> , 2020, 39, 101004.	3.0	28
35	Short-term effects of dietary advanced glycation end products in rats. <i>British Journal of Nutrition</i> , 2016, 115, 629-636.	1.2	26
36	Impaired oxidative capacity due to decreased CPT1b levels as a contributing factor to fat accumulation in obesity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R973-R982.	0.9	24

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37	Fasting and ghrelin-induced food intake is regulated by NAMPT in the hypothalamus. <i>Acta Physiologica</i> , 2020, 228, e13437.	1.8	22
38	Identification and Metabolic Profiling of a Novel Human Gut-derived LEAP2 Fragment. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, e966-e981.	1.8	22
39	The Zinc-Sensing Receptor GPR39 in Physiology and as a Pharmacological Target. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3872.	1.8	21
40	LEAP2 reduces postprandial glucose excursions and ad libitum food intake in healthy men. <i>Cell Reports Medicine</i> , 2022, 3, 100582.	3.3	21
41	Functional and genetic epidemiological characterisation of the <i>FFAR4</i> (<i>GPR120</i>) p.R270H variant in the Danish population. <i>Journal of Medical Genetics</i> , 2016, 53, 616-623.	1.5	20
42	ADAMTS9 Regulates Skeletal Muscle Insulin Sensitivity Through Extracellular Matrix Alterations. <i>Diabetes</i> , 2019, 68, 502-514.	0.3	20
43	Modulation of the Constitutive Activity of the Ghrelin Receptor by Use of Pharmacological Tools and Mutagenesis. <i>Methods in Enzymology</i> , 2010, 484, 53-73.	0.4	17
44	Bioorthogonal Labeling of Ghrelin Receptor to Facilitate Studies of Ligand-Dependent Conformational Dynamics. <i>Chemistry and Biology</i> , 2015, 22, 1431-1436.	6.2	17
45	Dietary Non-Esterified Oleic Acid Decreases the Jejunal Levels of Anorectic N-Acylethanolamines. <i>PLoS ONE</i> , 2014, 9, e100365.	1.1	15
46	The Lysine Demethylase KDM5B Regulates Islet Function and Glucose Homeostasis. <i>Journal of Diabetes Research</i> , 2019, 2019, 1-15.	1.0	15
47	Impaired glucose metabolism and altered gut microbiome despite calorie restriction of ob/ob mice. <i>Animal Microbiome</i> , 2019, 1, 11.	1.5	15
48	Development of potent and proteolytically stable human neuromedin U receptor agonists. <i>European Journal of Medicinal Chemistry</i> , 2018, 144, 887-897.	2.6	13
49	Immune malfunction in the GPR39 zinc receptor of knockout mice: Its relationship to depressive disorder. <i>Journal of Neuroimmunology</i> , 2016, 291, 11-17.	1.1	12
50	Ghrelin-mediated improvements in the metabolic phenotype in the R6/2 mouse model of Huntington's disease. <i>Journal of Neuroendocrinology</i> , 2019, 31, e12699.	1.2	12
51	Ghrelin-mediated inhibition of the TSH-stimulated function of differentiated human thyrocytes <i>ex vivo</i> . <i>PLoS ONE</i> , 2017, 12, e0184992.	1.1	12
52	An adult-based insulin resistance genetic risk score associates with insulin resistance, metabolic traits and altered fat distribution in Danish children and adolescents who are overweight or obese. <i>Diabetologia</i> , 2018, 61, 1769-1779.	2.9	11
53	Hypothalamic hormone-sensitive lipase regulates appetite and energy homeostasis. <i>Molecular Metabolism</i> , 2021, 47, 101174.	3.0	11
54	C4.4A gene ablation is compatible with normal epidermal development and causes modest overt phenotypes. <i>Scientific Reports</i> , 2016, 6, 25833.	1.6	10

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55	Pannexin-2-deficiency sensitizes pancreatic β -cells to cytokine-induced apoptosis <i>in vitro</i> and impairs glucose tolerance <i>in vivo</i> . <i>Molecular and Cellular Endocrinology</i> , 2017, 448, 108-121.	1.6	10
56	RhoA in tyrosine hydroxylase neurones regulates food intake and body weight via altered sensitivity to peripheral hormones. <i>Journal of Neuroendocrinology</i> , 2019, 31, e12761.	1.2	10
57	Beta-Hydroxybutyrate Suppresses Hepatic Production of the Ghrelin Receptor Antagonist LEAP2. <i>Endocrinology</i> , 2022, 163, .	1.4	10
58	Synthesis and <i>in Vitro</i> Evaluation of Stabilized and Selective Neuromedin U-1 Receptor Agonists. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 496-501.	1.3	9
59	Selective release of gastrointestinal hormones induced by an orally active GPR39 agonist. <i>Molecular Metabolism</i> , 2021, 49, 101207.	3.0	9
60	Biased Ghrelin Receptor Signaling and the Dopaminergic System as Potential Targets for Metabolic and Psychological Symptoms of Anorexia Nervosa. <i>Frontiers in Endocrinology</i> , 2021, 12, 734547.	1.5	6
61	Anorexia and fat aversion induced by vertical sleeve gastrectomy is attenuated in neurotensin receptor 1 deficient mice. <i>Endocrinology</i> , 2021, 162, .	1.4	5
62	Ablation of <i>Nampt</i> in AgRP neurons leads to neurodegeneration and impairs fasting- and ghrelin-mediated food intake. <i>FASEB Journal</i> , 2021, 35, e21450.	0.2	2
63	The Physiological Roles and Clinical Relevance of Ghrelin. , 2021, , 1-10.		0
64	Ghrelin, Physiological Roles and Clinical Relevance of. , 2021, , 695-704.		0