

Owen Chan

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,346
citations

361413

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345221

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#	ARTICLE	IF	CITATIONS
1	Blockade of GABAA Receptors in the Ventromedial Hypothalamus Further Stimulates Glucagon and Sympathoadrenal but Not the Hypothalamo-Pituitary-Adrenal Response to Hypoglycemia. <i>Diabetes</i> , 2006, 55, 1080-1087.	0.6	107
2	Activation of ATP-Sensitive K ⁺ Channels in the Ventromedial Hypothalamus Amplifies Counterregulatory Hormone Responses to Hypoglycemia in Normal and Recurrently Hypoglycemic Rats. <i>Diabetes</i> , 2005, 54, 3169-3174.	0.6	103
3	Increased GABAergic Tone in the Ventromedial Hypothalamus Contributes to Suppression of Counterregulatory Responses After Antecedent Hypoglycemia. <i>Diabetes</i> , 2008, 57, 1363-1370.	0.6	93
4	Hyperactivation of the Hypothalamo-Pituitary-Adrenocortical Axis in Streptozotocin-Diabetes Is Associated with Reduced Stress Responsiveness and Decreased Pituitary and Adrenal Sensitivity. <i>Endocrinology</i> , 2002, 143, 1761-1768.	2.8	89
5	Influence of Insulin in the Ventromedial Hypothalamus on Pancreatic Glucagon Secretion In Vivo. <i>Diabetes</i> , 2010, 59, 1521-1527.	0.6	80
6	Influence of VMH fuel sensing on hypoglycemic responses. <i>Trends in Endocrinology and Metabolism</i> , 2013, 24, 616-624.	7.1	79
7	Diabetes Impairs Hypothalamo-Pituitary-Adrenal (HPA) Responses to Hypoglycemia, and Insulin Treatment Normalizes HPA but not Epinephrine Responses. <i>Diabetes</i> , 2002, 51, 1681-1689.	0.6	75
8	ATP-Sensitive K ⁺ Channels Regulate the Release of GABA in the Ventromedial Hypothalamus During Hypoglycemia. <i>Diabetes</i> , 2007, 56, 1120-1126.	0.6	73
9	Lactate-Induced Release of GABA in the Ventromedial Hypothalamus Contributes to Counterregulatory Failure in Recurrent Hypoglycemia and Diabetes. <i>Diabetes</i> , 2013, 62, 4239-4246.	0.6	60
10	Insulin Alone Increases Hypothalamo-Pituitary-Adrenal Activity, and Diabetes Lowers Peak Stress Responses. <i>Endocrinology</i> , 2005, 146, 1382-1390.	2.8	54
11	Glucose prevents the fall in ventromedial hypothalamic GABA that is required for full activation of glucose counterregulatory responses during hypoglycemia. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E971-E977.	3.5	52
12	Increased GABAergic Output in the Ventromedial Hypothalamus Contributes to Impaired Hypoglycemic Counterregulation in Diabetic Rats. <i>Diabetes</i> , 2011, 60, 1582-1589.	0.6	51
13	Effects of antecedent hypoglycemia, hyperinsulinemia, and excess corticosterone on hypoglycemic counterregulation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001, 281, E455-E465.	3.5	38
14	Hyperglycemia does not increase basal hypothalamo-pituitary-adrenal activity in diabetes but it does impair the HPA response to insulin-induced hypoglycemia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R235-R246.	1.8	36
15	Effects of recurrent hyperinsulinemia with and without hypoglycemia on counterregulation in diabetic rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002, 282, E1369-E1379.	3.5	32
16	Modulation of α -Adrenergic Receptors in the Ventromedial Hypothalamus Influences Counterregulatory Responses to Hypoglycemia. <i>Diabetes</i> , 2011, 60, 3154-3158.	0.6	30
17	Alarm Settings of Continuous Glucose Monitoring Systems and Associations to Glucose Outcomes in Type 1 Diabetes. <i>Journal of the Endocrine Society</i> , 2020, 4, bvz005.	0.2	24
18	Noradrenergic Activity in the Human Brain: A Mechanism Supporting the Defense Against Hypoglycemia. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 2244-2252.	3.6	23

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19	Molecular Regulation of the Hypothalamo-Pituitary-Adrenal Axis in Streptozotocin-Induced Diabetes: Effects of Insulin Treatment. <i>Endocrinology</i> , 2001, 142, 4872-4879.	2.8	22
20	Hyperactivation of the Hypothalamo-Pituitary-Adrenocortical Axis in Streptozotocin-Diabetes Is Associated with Reduced Stress Responsiveness and Decreased Pituitary and Adrenal Sensitivity. <i>Endocrinology</i> , 2002, 143, 1761-1768.	2.8	22
21	Effects of Insulin Treatment without and with Recurrent Hypoglycemia on Hypoglycemic Counterregulation and Adrenal Catecholamine-Synthesizing Enzymes in Diabetic Rats. <i>Endocrinology</i> , 2006, 147, 1860-1870.	2.8	21
22	Hypothalamic Regulation of Glucose-Stimulated Insulin Secretion. <i>Diabetes</i> , 2012, 61, 564-565.	0.6	21
23	Impaired Glutamatergic Neurotransmission in the Ventromedial Hypothalamus May Contribute to Defective Counterregulation in Recurrently Hypoglycemic Rats. <i>Diabetes</i> , 2017, 66, 1979-1989.	0.6	21
24	Reduction in SGLT1 mRNA Expression in the Ventromedial Hypothalamus Improves the Counterregulatory Responses to Hypoglycemia in Recurrently Hypoglycemic and Diabetic Rats. <i>Diabetes</i> , 2015, 64, 3564-3572.	0.6	19
25	Inhibition of glycine transporter-1 in the dorsal vagal complex improves metabolic homeostasis in diabetes and obesity. <i>Nature Communications</i> , 2016, 7, 13501.	12.8	19
26	Associations Between the Time in Hypoglycemia and Hypoglycemia Awareness Status in Type 1 Diabetes Patients Using Continuous Glucose Monitoring Systems. <i>Diabetes Technology and Therapeutics</i> , 2020, 22, 787-793.	4.4	16
27	Partial blockade of nicotinic acetylcholine receptors improves the counterregulatory response to hypoglycemia in recurrently hypoglycemic rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 307, E580-E588.	3.5	13
28	Is There Cross Talk Between Portal and Hypothalamic Glucose-Sensing Circuits?. <i>Diabetes</i> , 2014, 63, 2617-2619.	0.6	11
29	Carvedilol prevents counterregulatory failure and impaired hypoglycaemia awareness in non-diabetic recurrently hypoglycaemic rats. <i>Diabetologia</i> , 2019, 62, 676-686.	6.3	10
30	Altered Central Nutrient Sensing in Male Mice Lacking Insulin Receptors in Glut4-expressing Neurons. <i>Endocrinology</i> , 2019, 160, 2038-2048.	2.8	9
31	<sc>ZT</sc>â€œ01: A novel somatostatin receptor 2 antagonist for restoring the glucagon response to hypoglycaemia in type 1 diabetes. <i>Diabetes, Obesity and Metabolism</i> , 2022, 24, 908-917.	4.4	9
32	Hyperactivation of the hypothalamoâ€pituitaryâ€adrenocortical axis in streptozotocinâ€diabetic gerbils (<i>Gerbillus gerbillus</i>). <i>International Journal of Experimental Pathology</i> , 2018, 99, 172-179.	1.3	8
33	Posttranscriptional regulation of adrenal TH gene expression contributes to the maladaptive responses triggered by insulin-induced recurrent hypoglycemia. <i>Physiological Reports</i> , 2015, 3, e12307.	1.7	7
34	Somatostatin Receptor Antagonism Reverses Glucagon Counterregulatory Failure in Recurrently Hypoglycemic Male Rats. <i>Endocrinology</i> , 2021, 162, .	2.8	6
35	Insulin regulates GLUT4 in the ventromedial hypothalamus to restore the sympathoadrenal response to hypoglycemia in diabetic rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E1286-E1295.	3.5	5
36	Carvedilol prevents impairment of the counterregulatory response in recurrently hypoglycaemic diabetic rats. <i>Endocrinology, Diabetes and Metabolism</i> , 2021, 4, e00226.	2.4	4

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37	Repeated Activation of Noradrenergic Receptors in the Ventromedial Hypothalamus Suppresses the Response to Hypoglycemia. <i>Endocrinology</i> , 2021, 162, .	2.8	4
38	Recurrent glucose deprivation leads to the preferential use of lactate by neurons in the ventromedial hypothalamus. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E948-E955.	3.5	0