Ana Obeso

List of Publications by Year
in descending order

103 papers	3,451 citations	147801 31 h-index	144013 57 g-index
103 all docs	103 docs citations	103 times ranked	1880 citing authors

#	Article	IF	Citations
1	Maladaptive Pulmonary Vascular Responses to Chronic Sustained and Chronic Intermittent Hypoxia in Rat. Antioxidants, 2022, 11, 54.	5.1	5
2	Chronic Intermittent Hypoxia Induces Early-Stage Metabolic Dysfunction Independently of Adipose Tissue Deregulation. Antioxidants, 2021, 10, 1233.	5.1	6
3	Peripheral Dopamine 2-Receptor Antagonist Reverses Hypertension in a Chronic Intermittent Hypoxia Rat Model. International Journal of Molecular Sciences, 2020, 21, 4893.	4.1	4
4	Exploring the Mediators that Promote Carotid Body Dysfunction in Type 2 Diabetes and Obesity Related Syndromes. International Journal of Molecular Sciences, 2020, 21, 5545.	4.1	24
5	Hydroxycobalamin Reveals the Involvement of Hydrogen Sulfide in the Hypoxic Responses of Rat Carotid Body Chemoreceptor Cells. Antioxidants, 2019, 8, 62.	5.1	4
6	Hyperinsulinemia due to altered insulin secretion contributes to insulin resistance in chronic intermittent hypoxia independently of obesity. , 2019, , .		1
7	Sex and age differences in pulmonary vascular responses in a chronic hypoxic rat model. , 2019, , .		0
8	High fat diet blunts the effects of leptin on ventilation and on carotid body activity. Journal of Physiology, 2018, 596, 3187-3199.	2.9	37
9	Adrenal Medulla Chemo Sensitivity Does Not Compensate the Lack of Hypoxia Driven Carotid Body Chemo Reflex in Guinea Pigs. Advances in Experimental Medicine and Biology, 2018, 1071, 167-174.	1.6	0
10	Guinea Pig as a Model to Study the Carotid Body Mediated Chronic Intermittent Hypoxia Effects. Frontiers in Physiology, 2018, 9, 694.	2.8	11
11	Pulmonary Hypertension in Female Rats: Estrogens and Age Influence. , 2018, , .		0
12	Maladaptive Pulmonary vascular responses to chronic intermittent and sustained hypoxia in a rat hypertension model. , 2018, , .		0
13	Chronic Intermittent Hypoxia effects are not mediated by guinea pig carotid body sensitization. , 2018, , .		0
14	Obstructive Sleep Apnea and Cancer: Insights from Intermittent Hypoxia Experimental Models. Current Sleep Medicine Reports, 2017, 3, 22-29.	1.4	2
15	Chronic intermittent hypoxia mimicking sleep apnoea increases spontaneous tumorigenesis in mice. European Respiratory Journal, 2017, 49, 1602111.	6.7	28
16	Frequency and magnitude of intermittent hypoxia modulate endothelial wound healing in a cell culture model of sleep apnea. Journal of Applied Physiology, 2017, 123, 1047-1054.	2.5	22
17	Functional abolition of carotid body activity restores insulin action and glucose homeostasis in rats: key roles for visceral adipose tissue and the liver. Diabetologia, 2017, 60, 158-168.	6.3	45
18	Guinea Pig Oxygen-Sensing and Carotid Body Functional Properties. Frontiers in Physiology, 2017, 8, 285.	2.8	13

#	Article	IF	Citations
19	Vascular sexual dimorphism and pulmonary hypertension in a rat chronic hypoxia model. , 2017, , .		0
20	Aged mice obstructive sleep apnoea model with spontaneous tumorigenesis: physiological parameters. , 2017, , .		0
21	The Effect of Supplemental Oxygen in Obesity Hypoventilation Syndrome. Journal of Clinical Sleep Medicine, 2016, 12, 1379-1388.	2.6	31
22	Age protects from harmful effects produced by chronic intermittent hypoxia. Journal of Physiology, 2016, 594, 1773-1790.	2.9	33
23	Protective Cardiovascular Effect of Sleep Apnea Severity in Obesity Hypoventilation Syndrome. Chest, 2016, 150, 68-79.	0.8	56
24	Protective cardiovascular effect of sleep apnea severity in obesity hypoventilation syndrome. , 2016, , .		0
25	Hypoxic pulmonary vasoconstriction, carotid body function and erythropoietin production in adult rats perinatally exposed to hyperoxia. Journal of Physiology, 2015, 593, 2459-2477.	2.9	7
26	Disclosing caffeine action on insulin sensitivity: Effects on rat skeletal muscle. European Journal of Pharmaceutical Sciences, 2015, 70, 107-116.	4.0	16
27	Experimental Observations on the Biological Significance of Hydrogen Sulfide in Carotid Body Chemoreception. Advances in Experimental Medicine and Biology, 2015, 860, 9-16.	1.6	2
28	The Carotid Body Does Not Mediate the Acute Ventilatory Effects of Leptin. Advances in Experimental Medicine and Biology, 2015, 860, 379-385.	1.6	13
29	LATE-BREAKING ABSTRACT: Effects of long term intermittent hypoxia (IH) mimicking obstructive sleep apnea (OSA) on spontaneous tumorigenesis in aged mice. , 2015, , .		0
30	Fernando de Castro and the discovery of the arterial chemoreceptors. Frontiers in Neuroanatomy, 2014, 8, 25.	1.7	16
31	Carotid body, insulin, and metabolic diseases: unraveling the links. Frontiers in Physiology, 2014, 5, 418.	2.8	67
32	Intermittent hypoxia and diet-induced obesity: effects on oxidative status, sympathetic tone, plasma glucose and insulin levels, and arterial pressure. Journal of Applied Physiology, 2014, 117, 706-719.	2.5	72
33	The effects of intermittent hypoxia on redox status, NF-Î°B activation, and plasma lipid levels are dependent on the lowest oxygen saturation. Free Radical Biology and Medicine, 2013, 65, 1143-1154.	2.9	39
34	Effects of low glucose on carotid body chemoreceptor cell activity studied in cultures of intact organs and in dissociated cells. American Journal of Physiology - Cell Physiology, 2012, 302, C1128-C1140.	4.6	26
35	Hypoxic intensity: a determinant for the contribution of ATP and adenosine to the genesis of carotid body chemosensory activity. Journal of Applied Physiology, 2012, 112, 2002-2010.	2.5	54
36	Chronic Caffeine Intake in Adult Rat Inhibits Carotid Body Sensitization Produced by Chronic Sustained Hypoxia but Maintains Intact Chemoreflex Output. Molecular Pharmacology, 2012, 82, 1056-1065.	2.3	21

#	Article	IF	Citations
37	Interactions Between Postnatal Sustained Hypoxia and Intermittent Hypoxia in the Adulthood to Alter Brainstem Structures and Respiratory Function. Advances in Experimental Medicine and Biology, 2012, 758, 225-231.	1.6	3
38	Serotonin Dynamics and Actions in the Rat Carotid Body: Preliminary Findings. Advances in Experimental Medicine and Biology, 2012, 758, 255-263.	1.6	5
39	Effect of Chronic Caffeine Intake on Carotid Body Catecholamine Dynamics in Control and Chronically Hypoxic Rats. Advances in Experimental Medicine and Biology, 2012, 758, 315-323.	1.6	2
40	Effects of Cigarette Smoke and Chronic Hypoxia on Ventilation in Guinea Pigs. Clinical Significance. Advances in Experimental Medicine and Biology, 2012, 758, 325-332.	1.6	2
41	Some Reflections on Intermittent Hypoxia. Does it Constitute the Translational Niche for Carotid Body Chemoreceptor Researchers?. Advances in Experimental Medicine and Biology, 2012, 758, 333-342.	1.6	6
42	Tetrodotoxin as a Tool to Elucidate Sensory Transduction Mechanisms: The Case for the Arterial Chemoreceptors of the Carotid Body. Marine Drugs, 2011, 9, 2683-2704.	4.6	3
43	Spermine attenuates carotid body glomus cell oxygen sensing by inhibiting L-type Ca2+ channels. Respiratory Physiology and Neurobiology, 2011, 175, 80-89.	1.6	6
44	Effects of cigarette smoke and chronic hypoxia on airways remodeling and resistance. Clinical significance. Respiratory Physiology and Neurobiology, 2011, 179, 305-313.	1.6	20
45	Carotid body function in aged rats: responses to hypoxia, ischemia, dopamine, and adenosine. Age, 2011, 33, 337-350.	3.0	16
46	Carotid body function and ventilatory responses in intermittent hypoxia. evidence for anomalous brainstem integration of arterial chemoreceptor input. Journal of Cellular Physiology, 2011, 226, 1961-1969.	4.1	47
47	Moderate ethanol ingestion, redox status, and cardiovascular system in the rat. Alcohol, 2011, 45, 381-391.	1.7	10
48	Effects of cigarette smoke and hypoxia on pulmonary circulation in the guinea pig. European Respiratory Journal, 2011, 38, 617-627.	6.7	51
49	A revisit to O2 sensing and transduction in the carotid body chemoreceptors in the context of reactive oxygen species biology. Respiratory Physiology and Neurobiology, 2010, 174, 317-330.	1.6	31
50	MaxiK potassium channels in the function of chemoreceptor cells of the rat carotid body. American Journal of Physiology - Cell Physiology, 2009, 297, C715-C722.	4.6	20
51	Adenosine in Peripheral Chemoreception: New Insights into a Historically Overlooked Molecule â€" Invited Article. Advances in Experimental Medicine and Biology, 2009, 648, 145-159.	1.6	32
52	General redox environment and carotid body chemoreceptor function. American Journal of Physiology - Cell Physiology, 2009, 296, C620-C631.	4.6	19
53	Effects of mitochondrial poisons on glutathione redox potential and carotid body chemoreceptor activity. Respiratory Physiology and Neurobiology, 2009, 165, 104-111.	1.6	10
54	Effects of the Polyamine Spermine on Arterial Chemoreception. Advances in Experimental Medicine and Biology, 2009, 648, 97-104.	1.6	2

#	Article	IF	Citations
55	The A2B-D2 Receptor Interaction that Controls Carotid Body Catecholamines Release Locates Between the Last Two Steps of Hypoxic Transduction Cascade. Advances in Experimental Medicine and Biology, 2009, 648, 161-168.	1.6	8
56	Does Ageing Modify Ventilatory Responses to Dopamine in Anaesthetised Rats Breathing Spontaneously?. Advances in Experimental Medicine and Biology, 2009, 648, 265-271.	1.6	3
57	An antagonistic interaction between A_{2B} adenosine and D₂ dopamine receptors modulates the function of rat carotid body chemoreceptor cells. Journal of Neurochemistry, 2008, 107, 1369-1381.	3.9	39
58	The role of NADPH oxidase in carotid body arterial chemoreceptors. Respiratory Physiology and Neurobiology, 2007, 157, 45-54.	1.6	31
59	Chemoreception in the context of the general biology of ROS. Respiratory Physiology and Neurobiology, 2007, 157, 30-44.	1.6	50
60	Low glucose effects on rat carotid body chemoreceptor cells' secretory responses and action potential frequency in the carotid sinus nerve. Journal of Physiology, 2007, 585, 721-730.	2.9	41
61	Molecular identification and functional role of voltage-gated sodium channels in rat carotid body chemoreceptor cells. Regulation of expression by chronic hypoxia in vivo. Journal of Neurochemistry, 2007, 102, 231-245.	3.9	27
62	Function of the rat carotid body chemoreceptors in ageing. Journal of Neurochemistry, 2006, 99, 711-723.	3.9	28
63	Caffeine inhibition of rat carotid body chemoreceptors is mediated by A2A and A2B adenosine receptors. Journal of Neurochemistry, 2006, 98, 616-628.	3.9	62
64	Function of NADPH Oxidase and Signaling by Reactive Oxygen Species in Rat Carotid Body Type I Cells. , 2006, 580, 155-160.		6
65	An Overview on the Homeostasis of Ca2+ in Chemoreceptor Cells of the Rabbit and Rat Carotid Bodies. , 2006, 580, 215-222.		7
66	Modification of the Glutathione Redox Environment and Chemoreceptor Cell Responses. , 2006, 580, 325-330.		0
67	Effect of p47phox gene deletion on ROS production and oxygen sensing in mouse carotid body chemoreceptor cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2005, 289, L916-L924.	2.9	47
68	Effects of reducing agents on glutathione metabolism and the function of carotid body chemoreceptor cells. Biological Chemistry, 2004, 385, 265-74.	2.5	14
69	Ventilatory responses and carotid body function in adult rats perinatally exposed to hyperoxia. Journal of Physiology, 2004, 554, 126-144.	2.9	32
70	Role of Glutathione Redox State in Oxygen Sensing by Carotid Body Chemoreceptor Cells. Methods in Enzymology, 2004, 381, 40-71.	1.0	14
71	Functional Identification of KvÎ± Subunits Contributing to the O2-Sensitive K+ Current in Rabbit Carotid Body Chemoreceptor Cells. Advances in Experimental Medicine and Biology, 2003, 536, 33-39.	1.6	7
72	Effects of Perinatal Hyperoxia on Carotid Body Chemoreceptor Activity in Vitro. Advances in Experimental Medicine and Biology, 2003, 536, 517-524.	1.6	2

#	Article	IF	Citations
73	Significance of Ros in Oxygen Chemoreception in the Carotid Body Chemoreception. Advances in Experimental Medicine and Biology, 2002, 475, 425-434.	1.6	5
74	Significance of ROS in oxygen sensing in cell systems with sensitivity to physiological hypoxia. Respiratory Physiology and Neurobiology, 2002, 132, 17-41.	1.6	109
75	Molecular identification of KvÎ± subunits that contribute to the oxygenâ€sensitive K⁺ current of chemoreceptor cells of the rabbit carotid body. Journal of Physiology, 2002, 542, 369-382.	2.9	76
76	Arterial Chemoreceptors. , 2002, , 114-140.		0
77	Reduced to oxidized glutathione ratios and oxygen sensing in calf and rabbit carotid body chemoreceptor cells. Journal of Physiology, 2001, 537, 209-220.	2.9	28
78	Characterization of the synthesis and release of catecholamine in the rat carotid body in vitro. American Journal of Physiology - Cell Physiology, 2000, 278, C490-C499.	4.6	74
79	Intracellular Ca²⁺stores in chemoreceptor cells of the rabbit carotid body: significance for chemoreception. American Journal of Physiology - Cell Physiology, 2000, 279, C51-C61.	4.6	29
80	NADPH oxidase inhibition does not interfere with low P O 2 transduction in rat and rabbit CB chemoreceptor cells. American Journal of Physiology - Cell Physiology, 1999, 276, C593-C601.	4.6	32
81	Evidence for two types of nicotinic receptors in the cat carotid body chemoreceptor cells. Brain Research, 1997, 754, 298-302.	2.2	32
82	Intracellular Ca2+ Deposits and Catecholamine Secretion by Chemoreceptor Cells of the Rabbit Carotid Body. Advances in Experimental Medicine and Biology, 1996, 410, 279-284.	1.6	1
83	Cellular mechanisms of oxygen chemoreception in the carotid body. Respiration Physiology, 1995, 102, 137-147.	2.7	45
84	Participation of Na+ channels in the response of carotid body chemoreceptor cells to hypoxia. American Journal of Physiology - Cell Physiology, 1994, 267, C738-C744.	4.6	30
85	Carotid body chemoreceptors: from natural stimuli to sensory discharges.. Physiological Reviews, 1994, 74, 829-898.	28.8	979
86	Assessment of Na+ Channel Involvement in the Release of Catecholamines from Chemoreceptor Cells of the Carotid Body. Advances in Experimental Medicine and Biology, 1994, 360, 201-204.	1.6	1
87	Effect of low O2 on glucose uptake in rabbit carotid body. Journal of Applied Physiology, 1993, 74, 2387-2393.	2.5	27
88	Ca2+ Dynamics in Chemoreceptor Cells: An Overview. Advances in Experimental Medicine and Biology, 1993, 337, 149-156.	1.6	10
89	The role of dihydropyridine-sensitive Ca2+ channels in stimulus-evoked catecholamine release from chemoreceptor cells of the carotid body. Neuroscience, 1992, 47, 463-472.	2.3	86
90	Effects of almitrine on the release of catecholamines from the rabbit carotid body <i>in vitro</i>. British Journal of Pharmacology, 1992, 106, 697-702.	5.4	5

#	Article	IF	Citations
91	Oxygen and acid chemoreception in the carotid body chemoreceptors. Trends in Neurosciences, 1992, 15, 146-153.	8.6	184
92	Characterization of cultured chemoreceptor cells dissociated from adult rabbit carotid body. American Journal of Physiology - Cell Physiology, 1992, 263, C1152-C1159.	4.6	41
93	Ionic mechanisms for the transduction of acidic stimuli in rabbit carotid body glomus cells.. Journal of Physiology, 1991, 433, 533-548.	2.9	66
94	Ionic Mechanisms of the Chemoreception Process in Type I Cells of the Carotid Body. , 1990, , 44-57.		3
95	Involvement of Na+:H+ and Na+:Ca++ Antiporters in the Chemotransduction of Acidic Stimuli. , 1990, , 35-41.		0
96	Metabolic activation of carotid body glomus cells by hypoxia. Journal of Applied Physiology, 1989, 67, 484-487.	2.5	18
97	Effects of cyanide and uncoupler on chemoreceptor activity and ATP content of the cat carotid body. Brain Research, 1989, 481, 250-257.	2.2	62
98	Activation of the release of dopamine in the carotid body by veratridine. Evidence for the presence of voltage-dependent Na+ channels in type I cells. Neuroscience Letters, 1988, 94, 274-278.	2.1	16
99	ATP Content in the Cat Carotid Body under Different Experimental Conditions. Support for the Metabolic Hypothesis. , 1987, , 78-90.		1
100	Effects of 2-deoxy-d-glucose on in vitro cat carotid body. Brain Research, 1986, 371, 25-36.	2.2	42
101	Effects of high potassium on the release of [3H]dopamine from the cat carotid body in vitro.. Journal of Physiology, 1986, 379, 293-307.	2.9	48
102	Correlation between adenosine triphosphate levels, dopamine release and electrical activity in the carotid body: Support for the metabolic hypothesis of chemoreception. Brain Research, 1985, 348, 64-68.	2.2	37
103	Tris buffer: effects on catecholamine synthesis. Journal of Neurochemistry, 1979, 32, 1143-1145.	3.9	6