Asuncion Rocher

List of Publications by Year
in descending order

60 papers	1,388 citations	361413 20 h-index	330143 37 g-index
60 all docs	60 docs citations	60 times ranked	1236 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	Oxygen Sensing: Physiology and Pathophysiology. Antioxidants, 2022, 11, 1018.	5.1	1
3	Physiology and Pathophysiology of Oxygen Sensitivity. Antioxidants, 2021, 10, 1114.	5.1	4
4	Chronic Intermittent Hypoxia Induces Early-Stage Metabolic Dysfunction Independently of Adipose Tissue Deregulation. Antioxidants, 2021, 10, 1233.	5.1	6
5	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
6	Hydroxycobalamin Reveals the Involvement of Hydrogen Sulfide in the Hypoxic Responses of Rat Carotid Body Chemoreceptor Cells. Antioxidants, 2019, 8, 62.	5.1	4
7	Hyperinsulinemia due to altered insulin secretion contributes to insulin resistance in chronic intermittent hypoxia independently of obesity. , 2019, , .		1
8	Sex and age differences in pulmonary vascular responses in a chronic hypoxic rat model. , 2019, , .		0
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	Mitochondrial Complex I Dysfunction and Peripheral Chemoreflex Sensitivity in a FASTK-Deficient Mice Model. Advances in Experimental Medicine and Biology, 2018, 1071, 51-59.	1.6	5
11	Guinea Pig as a Model to Study the Carotid Body Mediated Chronic Intermittent Hypoxia Effects. Frontiers in Physiology, 2018, 9, 694.	2.8	11
12	Pulmonary Hypertension in Female Rats: Estrogens and Age Influence. , 2018, , .		0
13	Maladaptive Pulmonary vascular responses to chronic intermittent and sustained hypoxia in a rat hypertension model. , 2018, , .		0
14	Chronic Intermittent Hypoxia effects are not mediated by guinea pig carotid body sensitization. , 2018, , .		0
15	Guinea Pig Oxygen-Sensing and Carotid Body Functional Properties. Frontiers in Physiology, 2017, 8, 285.	2.8	13
16	Vascular sexual dimorphism and pulmonary hypertension in a rat chronic hypoxia model. , 2017, , .		0
17	Aged mice obstructive sleep apnoea model with spontaneous tumorigenesis: physiological parameters. , 2017, , .		0
18	The Calcium-Sensing Receptor in Health and Disease. International Review of Cell and Molecular Biology, 2016, 327, 321-369.	3.2	56

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19	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
20	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
21	Fernando de Castro and the discovery of the arterial chemoreceptors. Frontiers in Neuroanatomy, 2014, 8, 25.	1.7	16
22	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
23	Intracellular Ca2+ remodeling during the phenotypic journey of human coronary smooth muscle cells. Cell Calcium, 2013, 54, 375-385.	2.4	17
24	Cyclic AMP and Epac Contribute to the Genesis of the Positive Interaction Between Hypoxia and Hypercapnia in the Carotid Body. Advances in Experimental Medicine and Biology, 2012, 758, 215-223.	1.6	2
25	Serotonin Dynamics and Actions in the Rat Carotid Body: Preliminary Findings. Advances in Experimental Medicine and Biology, 2012, 758, 255-263.	1.6	5
26	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
27	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
28	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
29	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
30	EPAC signalling pathways are involved in low <i>P</i>_{O2} chemoreception in carotid body chemoreceptor cells. Journal of Physiology, 2009, 587, 4015-4027.	2.9	24
31	Effects of the Polyamine Spermine on Arterial Chemoreception. Advances in Experimental Medicine and Biology, 2009, 648, 97-104.	1.6	2
32	RT-PCR and Pharmacological Analysis of L-and T-Type Calcium Channels in Rat Carotid Body. Advances in Experimental Medicine and Biology, 2009, 648, 105-112.	1.6	12
33	Chemoreception in the context of the general biology of ROS. Respiratory Physiology and Neurobiology, 2007, 157, 30-44.	1.6	50
34	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
35	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
36	An Overview on the Homeostasis of Ca2+ in Chemoreceptor Cells of the Rabbit and Rat Carotid Bodies. , 2006, 580, 215-222.		7

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37	Role of voltage-dependent calcium channels in stimulus-secretion coupling in rabbit carotid body chemoreceptor cells. Journal of Physiology, 2005, 562, 407-420.	2.9	31
38	Ventilatory responses and carotid body function in adult rats perinatally exposed to hyperoxia. Journal of Physiology, 2004, 554, 126-144.	2.9	32
39	A Reevaluation of the Mechanisms Involved in the Secretion of Catecholamine Evoked by 2, 4-Dinitro Phenol from Chemoreceptor Cells of the Rabbit Carotid Body. Advances in Experimental Medicine and Biology, 2003, 536, 85-93.	1.6	1
40	Effects of Perinatal Hyperoxia on Carotid Body Chemoreceptor Activity in Vitro. Advances in Experimental Medicine and Biology, 2003, 536, 517-524.	1.6	2
41	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
42	Adenosine inhibits L-type Ca2+current and catecholamine release in the rabbit carotid body chemoreceptor cells. European Journal of Neuroscience, 1999, 11, 673-681.	2.6	27
43	Hypoxia inhibits the synthesis of phosphoinositides in the rabbit carotid body. Pflugers Archiv European Journal of Physiology, 1999, 437, 839-845.	2.8	10
44	Identification of major rye secalins as coeliac immunoreactive proteins. BBA - Proteins and Proteomics, 1996, 1295, 13-22.	2.1	37
45	Primary Structure of omega-Hordothionin, a Member of a Novel Family of Thionins from Barley Endosperm, and Its Inhibition of Protein Synthesis in Eukaryotic and Prokaryotic Cell-Free Systems. FEBS Journal, 1996, 239, 67-73.	0.2	54
46	Cholera and Pertussis Toxins Reveal Multiple Regulation of cAMP Levels in the Rabbit Carotid Body. European Journal of Neuroscience, 1996, 8, 2320-2327.	2.6	14
47	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
48	1H-nmr studies on the structure of a new thionin from barley endosperm. Biopolymers, 1995, 36, 751-763.	2.4	34
49	Characterization of distinct Î±- and Î³-type gliadins and low molecular weight components from wheat endosperm as coeliac immunoreactive proteins. BBA - Proteins and Proteomics, 1995, 1247, 143-148.	2.1	20
50	Cellular mechanisms of oxygen chemoreception in the carotid body. Respiration Physiology, 1995, 102, 137-147.	2.7	45
51	Activation of GTP-Binding Proteins by Aluminum Fluoride Modulates Catecholamine Release in the Rabbit Carotid Body. Advances in Experimental Medicine and Biology, 1994, 360, 205-208.	1.6	0
52	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
53	Distribution and properties of major ribosome-inactivating proteins (28 S rRNA N-glycosidases) of the plant Saponaria officinalis L. (Caryophyllaceae). Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1993, 1216, 31-42.	2.4	102
54	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

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55	Identification of the three major coeliac immunoreactive proteins and one Î±-amylase inhibitor from oat endosperm. FEBS Letters, 1992, 310, 37-40.	2.8	15
56	Isolation and partial characterization of a new ribosome-inactivating protein from Petrocoptis glaucifolia (Lag.) Boiss. Planta, 1992, 186, 532-40.	3.2	30
57	Ionic mechanisms for the transduction of acidic stimuli in rabbit carotid body glomus cells.. Journal of Physiology, 1991, 433, 533-548.	2.9	66
58	Î³-Purothionins: amino acid sequence of two polypeptides of a new family of thionins from wheat endosperm. FEBS Letters, 1990, 270, 191-194.	2.8	193
59	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
60	Use of perphenazine as a ligand for calmodium affinity chromatography. Journal of Chromatography A, 1986, 368, 462-467.	3.7	1