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	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
2	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
3	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
4	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
5	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
6	Ionic mechanisms for the transduction of acidic stimuli in rabbit carotid body glomus cells.. Journal of Physiology, 1991, 433, 533-548.	2.9	66
7	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
8	The Calcium-Sensing Receptor in Health and Disease. International Review of Cell and Molecular Biology, 2016, 327, 321-369.	3.2	56
9	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
10	Chemoreception in the context of the general biology of ROS. Respiratory Physiology and Neurobiology, 2007, 157, 30-44.	1.6	50
11	Cellular mechanisms of oxygen chemoreception in the carotid body. Respiration Physiology, 1995, 102, 137-147.	2.7	45
12	Identification of major rye secalins as coeliac immunoreactive proteins. BBA - Proteins and Proteomics, 1996, 1295, 13-22.	2.1	37
13	1H-nmr studies on the structure of a new thionin from barley endosperm. Biopolymers, 1995, 36, 751-763.	2.4	34
14	Ventilatory responses and carotid body function in adult rats perinatally exposed to hyperoxia. Journal of Physiology, 2004, 554, 126-144.	2.9	32
15	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
16	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
17	Isolation and partial characterization of a new ribosome-inactivating protein from Petrocoptis glaucifolia (Lag.) Boiss. Planta, 1992, 186, 532-40.	3.2	30
18	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

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19	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
20	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
21	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
22	Intracellular Ca2+ remodeling during the phenotypic journey of human coronary smooth muscle cells. Cell Calcium, 2013, 54, 375-385.	2.4	17
23	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
24	Fernando de Castro and the discovery of the arterial chemoreceptors. Frontiers in Neuroanatomy, 2014, 8, 25.	1.7	16
25	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
26	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
27	Guinea Pig Oxygen-Sensing and Carotid Body Functional Properties. Frontiers in Physiology, 2017, 8, 285.	2.8	13
28	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
29	Guinea Pig as a Model to Study the Carotid Body Mediated Chronic Intermittent Hypoxia Effects. Frontiers in Physiology, 2018, 9, 694.	2.8	11
30	Hypoxia inhibits the synthesis of phosphoinositides in the rabbit carotid body. Pflugers Archiv European Journal of Physiology, 1999, 437, 839-845.	2.8	10
31	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
32	An Overview on the Homeostasis of Ca2+ in Chemoreceptor Cells of the Rabbit and Rat Carotid Bodies. , 2006, 580, 215-222.		7
33	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
34	Chronic Intermittent Hypoxia Induces Early-Stage Metabolic Dysfunction Independently of Adipose Tissue Deregulation. Antioxidants, 2021, 10, 1233.	5.1	6
35	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
36	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

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37	Serotonin Dynamics and Actions in the Rat Carotid Body: Preliminary Findings. Advances in Experimental Medicine and Biology, 2012, 758, 255-263.	1.6	5
38	Maladaptive Pulmonary Vascular Responses to Chronic Sustained and Chronic Intermittent Hypoxia in Rat. Antioxidants, 2022, 11, 54.	5.1	5
39	Hydroxycobalamin Reveals the Involvement of Hydrogen Sulfide in the Hypoxic Responses of Rat Carotid Body Chemoreceptor Cells. Antioxidants, 2019, 8, 62.	5.1	4
40	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
41	Physiology and Pathophysiology of Oxygen Sensitivity. Antioxidants, 2021, 10, 1114.	5.1	4
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	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
44	Effects of Perinatal Hyperoxia on Carotid Body Chemoreceptor Activity in Vitro. Advances in Experimental Medicine and Biology, 2003, 536, 517-524.	1.6	2
45	Effects of the Polyamine Spermine on Arterial Chemoreception. Advances in Experimental Medicine and Biology, 2009, 648, 97-104.	1.6	2
46	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
47	Use of perphenazine as a ligand for calmodium affinity chromatography. Journal of Chromatography A, 1986, 368, 462-467.	3.7	1
48	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
49	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
50	Hyperinsulinemia due to altered insulin secretion contributes to insulin resistance in chronic intermittent hypoxia independently of obesity. , 2019, , .		1
51	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
52	Oxygen Sensing: Physiology and Pathophysiology. Antioxidants, 2022, 11, 1018.	5.1	1
53	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
54	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

#	Article	IF	Citations
55	Vascular sexual dimorphism and pulmonary hypertension in a rat chronic hypoxia model. , 2017, , .		0
56	Aged mice obstructive sleep apnoea model with spontaneous tumorigenesis: physiological parameters. , 2017, , .		0
57	Pulmonary Hypertension in Female Rats: Estrogens and Age Influence. , 2018, , .		0
58	Maladaptive Pulmonary vascular responses to chronic intermittent and sustained hypoxia in a rat hypertension model. , 2018, , .		0
59	Chronic Intermittent Hypoxia effects are not mediated by guinea pig carotid body sensitization. , 2018, , .		0
60	Sex and age differences in pulmonary vascular responses in a chronic hypoxic rat model. , 2019, , .		0