Rafael PeÃ±afiel

List of Publications by Year
in descending order

67 papers	1,015 citations	430874 18 h-index	501196 28 g-index
69 all docs	69 docs citations	69 times ranked	1068 citing authors

#	Article	IF	Citations
1	Dietary and Gut Microbiota Polyamines in Obesity- and Age-Related Diseases. Frontiers in Nutrition, 2019, 6, 24.	3.7	133
2	Mouse Ornithine Decarboxylase-like Gene Encodes an Antizyme Inhibitor Devoid of Ornithine and Arginine Decarboxylating Activity. Journal of Biological Chemistry, 2006, 281, 30896-30906.	3.4	55
3	Gender-related differences in carnosine, anserine and lysine content of murine skeletal muscle. Amino Acids, 2004, 26, 53-58.	2.7	50
4	Preoperative values of CA 15-3 and CEA as prognostic factors in breast cancer: a multivariate analysis. Tumor Biology, 2001, 22, 273-281.	1.8	40
5	Influence of Ovarian Ornithine Decarboxylase in Folliculogenesis and Luteinization. Endocrinology, 2005, 146, 666-674.	2.8	36
6	Protecting or promoting effects of spermine on DNA strand breakage induced by iron or copper ions as a function of metal concentration. Journal of Inorganic Biochemistry, 2005, 99, 2074-2080.	3.5	34
7	Sexual dimorphism of ornithine decarboxylase in the mouse adrenal: influence of polyamine deprivation on catecholamine and corticoid levels. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E1010-E1017.	3.5	34
8	Antizyme Inhibitor 2 (AZIN2/ODCp) Stimulates Polyamine Uptake in Mammalian Cells. Journal of Biological Chemistry, 2008, 283, 20761-20769.	3.4	34
9	Antizyme inhibitor 2: molecular, cellular and physiological aspects. Amino Acids, 2010, 38, 603-611.	2.7	32
10	Equilibrium between active and inactive forms of rat liver ornithine decarboxylase mediated by L-ornithine and salts. FEBS Letters, 1985, 190, 324-328.	2.8	31
11	Molecular and Morphological Changes in Placenta and Embryo Development Associated with the Inhibition of Polyamine Synthesis during Midpregnancy in Mice. Endocrinology, 2008, 149, 5012-5023.	2.8	28
12	Differential expression of ornithine decarboxylase antizyme inhibitors and antizymes in rodent tissues and human cell lines. Amino Acids, 2012, 42, 539-547.	2.7	24
13	Expression of antizyme inhibitor 2 in male haploid germinal cells suggests a role in spermiogenesis. International Journal of Biochemistry and Cell Biology, 2009, 41, 1070-1078.	2.8	22
14	Diazepam potentiates the positive inotropic effect of isoprenaline in rat ventricle strips: role of cyclic AMP. European Journal of Pharmacology, 1995, 282, 169-175.	3.5	21
15	Subcellular localization of antizyme inhibitor 2 in mammalian cells: Influence of intrinsic sequences and interaction with antizymes. Journal of Cellular Biochemistry, 2009, 107, 732-740.	2.6	21
16	An evaluation of the role of polyamines in different models of kidney hypertrophy in mice. Kidney International, 1995, 48, 731-737.	5.2	20
17	Kinetic study of the activation process of frog epidermis pro-tyrosinase by trypsin. International Journal of Biochemistry & Cell Biology, 1983, 15, 633-637.	0.5	18
18	The preovulatory rise of ovarian ornithine decarboxylase is required for progesterone secretion by the corpus luteum. Biochemical and Biophysical Research Communications, 2002, 293, 106-111.	2.1	18

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19	Potassium regulates plasma testosterone and renal ornithine decarboxylase in mice. FEBS Letters, 1993, 333, 32-34.	2.8	17
20	Postnatal Development of Ornithine Decarboxylase and Polyamines in the Mouse Kidney: Influence of Testosterone. Neonatology, 1994, 66, 119-127.	2.0	17
21	Antizyme Inhibitor 2 Hypomorphic Mice. New Patterns of Expression in Pancreas and Adrenal Glands Suggest a Role in Secretory Processes. PLoS ONE, 2013, 8, e69188.	2.5	17
22	Kinetic study of the interaction between frog epidermis tyrosinase and chloride. BBA - Proteins and Proteomics, 1984, 788, 327-332.	2.1	15
23	Comparative study of tyrosinases from different sources: Relationship between halide inhibition and the enzyme active site. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1986, 83, 633-636.	0.2	15
24	Opposite sexual dimorphism of 3,4-dihydroxyphenylalanine decarboxylase in the kidney and small intestine of mice. Journal of Endocrinology, 2008, 196, 615-624.	2.6	15
25	Transcriptomic Analysis of Polyamine-Related Genes and Polyamine Levels in Placenta, Yolk Sac and Fetus During the Second Half of Mouse Pregnancy. Placenta, 2009, 30, 241-249.	1.5	14
26	Half-lives of tyrosinase isozymes from Harding-Passey mouse melanoma. Cancer Letters, 1988, 38, 339-346.	7.2	13
27	Interference of the antihormone RU486 in the determination of testosterone and estradiol by enzyme-immunoassay. Clinica Chimica Acta, 1998, 275, 63-69.	1.1	13
28	Influence of dietary arginine on sexual dimorphism of arginine metabolism in mice. Journal of Nutritional Biochemistry, 2003, 14, 333-341.	4.2	13
29	A novel role for antizyme inhibitor 2 as a regulator of serotonin and histamine biosynthesis and content in mouse mast cells. Amino Acids, 2016, 48, 2411-2421.	2.7	13
30	Antizyme Inhibitors in Polyamine Metabolism and Beyond: Physiopathological Implications. Medical Sciences (Basel, Switzerland), 2018, 6, 89.	2.9	13
31	Hyperthermia and brain neurotransmitter amino acid levels in infant rats. General Pharmacology, 1982, 13, 347-350.	0.7	12
32	Structural and degradative aspects of ornithine decarboxylase antizyme inhibitor 2. FEBS Open Bio, 2014, 4, 510-521.	2.3	12
33	An exercise in brain genoarchitectonics: Analysis of AZIN2â€Lacz expressing neuronal populations in the mouse hindbrain. Journal of Neuroscience Research, 2018, 96, 1490-1517.	2.9	12
34	The thyrotropin-releasing hormone-like peptides pGlu-Phe-Pro amide and pGlu-Glu-Pro amide increase plasma triiodothyronine levels in the mouse; the activity is sensitive to testosterone. European Journal of Pharmacology, 1998, 358, 63-67.	3.5	11
35	Influence of dietary arginine on the anabolic effects of androgens. Journal of Endocrinology, 2004, 183, 343-351.	2.6	11
36	New insights of polyamine metabolism in testicular physiology: A role of ornithine decarboxylase antizyme inhibitor 2 (AZIN2) in the modulation of testosterone levels and sperm motility. PLoS ONE, 2018, 13, e0209202.	2.5	11

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37	Influence of ornithine decarboxylase antizymes and antizyme inhibitors on agmatine uptake by mammalian cells. Amino Acids, 2015, 47, 1025-1034.	2.7	10
38	The effect of hyperthermia on ornithine decarboxylase activity in different rat tissues. Biochemical Pharmacology, 1988, 37, 497-502.	4.4	9
39	Antiandrogenic effect of RU-486 in the mouse kidney. International Journal of Biochemistry and Cell Biology, 1997, 29, 361-366.	2.8	8
40	The mouse Gm853 gene encodes a novel enzyme: Leucine decarboxylase. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 365-376.	2.4	8
41	Postnatal Exposure to Androgens Alters Renal Ornithine Decarboxylase Ontogeny and Abolishes Renal Sexual Dimorphism in Mice. Neonatology, 1999, 76, 72-83.	2.0	7
42	Creatinine determination in dried urine on filter paper. Clinica Chimica Acta, 1983, 127, 289-293.	1.1	6
43	Expression and distribution of genes encoding for polyamine-metabolizing enzymes in the different zones of male and female mouse kidneys. Amino Acids, 2012, 43, 2153-2163.	2.7	6
44	Mutational analysis of the antizyme-binding element reveals critical residues for the function of ornithine decarboxylase. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 5157-5165.	2.4	6
45	The induction of cardiac ornithine decarboxylase by Î²₂â€adrenergic agents is associated with calcium channels and phosphorylation of ERK1/2. Journal of Cellular Biochemistry, 2013, 114, 1978-1986.	2.6	6
46	Hypokalemia alters sex hormone and gonadotropin levels: evidence that FSH may be required for luteinization. American Journal of Physiology - Endocrinology and Metabolism, 1998, 275, E1037-E1045.	3.5	5
47	Aminoglutethimide, a Steroidogenesis Inhibitor, Abolishes Hormonal Induction of Ornithine Decarboxylase in Steroidogenic Tissues: Evidence for Its Role as cAMP-Dependent Protein Kinase Inhibitor. Biochemical and Biophysical Research Communications, 2001, 281, 244-248.	2.1	5
48	Influence of Murine Renal Sexual Dimorphism on Amiloride-Induced Hyperkalemia. Nephron Physiology, 2003, 95, p57-p66.	1.2	5
49	Hypokalemia decreases testosterone production in male mice by altering luteinizing hormone secretion. Endocrinology, 1996, 137, 3738-3743.	2.8	5
50	Effect of potassium deficiency on body temperature in mice. Journal of Thermal Biology, 2000, 25, 125-129.	2.5	4
51	Regulation of ornithine decarboxylase in B16 mouse melanoma cells: synergistic activation of melanogenesis by Î±MSH and ornithine decarboxylase inhibition. Biochimica Et Biophysica Acta - Molecular Cell Research, 2002, 1542, 57-65.	4.1	4
52	Tissue-specific regulation of potassium homeostasis by high doses of cationic amino acids. SpringerPlus, 2016, 5, 616.	1.2	4
53	Free Amino Acids in the Cerebrospinal Fluid of Children with Febrile Seizures. Neuropediatrics, 1989, 20, 129-131.	0.6	3
54	Monosodium glutamate induced convulsions in rats: Influence of route of administration, temperature and age. Amino Acids, 1991, 1, 81-89.	2.7	3

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55	The effect of glycine administration on taurine concentration in the rat liver. Comparative Biochemistry and Physiology A, Comparative Physiology, 1992, 102, 147-149.	0.6	3
56	Kinetic study of the inhibition of rat liver ornithine decarboxylase by diamines; considerations on the mechanism of interaction between enzyme and inhibitor. International Journal of Biochemistry & Cell Biology, 1988, 20, 463-470.	0.5	2
57	Effects of different factors in lead- and cadmium-induced hypothermia in mice. European Journal of Pharmacology - Environmental Toxicology and Pharmacology Section, 1993, 248, 199-204.	0.8	2
58	Neuronal regulation of ornithine decarboxylase induced by androgens in the mouse kidney. General Pharmacology, 1995, 26, 997-1001.	0.7	2
59	Influence of different neural systems on the secretion of sex hormones in potassium deficient mice. Life Sciences, 2002, 71, 1511-1521.	4.3	2
60	Hyperthermia and the neurotoxicity of exogenous glutamate in infant rats. Neurochemistry International, 1985, 7, 237-242.	3.8	1
61	Different turnover of rat fetal and placental ornithine decarboxylases. Life Sciences, 1990, 47, 1195-1202.	4.3	1
62	Involvement of polyamines in the contragestational effect of hyperthermia. Life Sciences, 1995, 57, 1343-1349.	4.3	1
63	Effects of central administration of lead, cadmium and other divalent cations on body temperature in mice. Journal of Thermal Biology, 1999, 24, 355-358.	2.5	1
64	Polyamine biosynthesis in Xenopus laevis: the xlAZIN2/xlODC2 gene encodes a lysine/ornithine decarboxylase. PLoS ONE, 2019, 14, e0218500.	2.5	1
65	Inactivation of ornithine decarboxylase by intermediates of tyrosinase-catalyzed reaction. International Journal of Biochemistry & Cell Biology, 1993, 25, 355-358.	0.5	0
66	Effect of environmental temperature on tissue lead accumulation in mice repeatedly treated with lead acetate. European Journal of Pharmacology - Environmental Toxicology and Pharmacology Section, 1995, 293, 271-275.	0.8	0
67	Effects of potassium deficiency on potassium, polyamines and amino acids in mouse tissues. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2003, 134, 647-654.	1.8	0