

# Mario Vallejo

## List of Publications by Year in descending order

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61  
papers

3,463  
citations

201674

27  
h-index

138484

58  
g-index

61  
all docs

61  
docs citations

61  
times ranked

3510  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multipotential Nestin-Positive Stem Cells Isolated From Adult Pancreatic Islets Differentiate Ex Vivo Into Pancreatic Endocrine, Exocrine, and Hepatic Phenotypes. <i>Diabetes</i> , 2001, 50, 521-533.	0.6	760
2	Network-Level Changes in Expression of Inducible Fos/Jun Proteins in the Striatum during Chronic Cocaine Treatment and Withdrawal. <i>Neuron</i> , 1996, 17, 147-156.	8.1	256
3	C/ATF, a member of the activating transcription factor family of DNA-binding proteins, dimerizes with CAAT/enhancer-binding proteins and directs their binding to cAMP response elements.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 4679-4683.	7.1	251
4	Occurrence and extracellular actions of inositol pentakis- and hexakisphosphate in mammalian brain. <i>Nature</i> , 1987, 330, 656-658.	27.8	199
5	Prevalence, Phenotypic Spectrum, and Modes of Inheritance of Gonadotropin-Releasing Hormone Receptor Mutations in Idiopathic Hypogonadotropic Hypogonadism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001, 86, 1580-1588.	3.6	174
6	The Importance of Autosomal Genes in Kallmann Syndrome: Genotype-Phenotype Correlations and Neuroendocrine Characteristics. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001, 86, 1532-1538.	3.6	144
7	CHOP Enhancement of Gene Transcription by Interactions with Jun/Fos AP-1 Complex Proteins. <i>Molecular and Cellular Biology</i> , 1999, 19, 7589-7599.	2.3	127
8	Developmental mechanisms of stripe patterns in rodents. <i>Nature</i> , 2016, 539, 518-523.	27.8	101
9	cAMP-Dependent Regulation of Gene Transcription by cAMP Response Element-Binding Protein and cAMP Response Element Modulator. <i>Vitamins and Hormones</i> , 1995, 51, 1-57.	1.7	84
10	Genetic Heterogeneity Evidenced by Low Incidence of KAL-1 Gene Mutations in Sporadic Cases of Gonadotropin-Releasing Hormone Deficiency. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1997, 82, 213-217.	3.6	83
11	Essential role of protein tyrosine phosphatase 1B in obesity-induced inflammation and peripheral insulin resistance during aging. <i>Aging Cell</i> , 2012, 11, 284-296.	6.7	78
12	Nuclear factor-1 regulates glial fibrillary acidic protein gene expression in astrocytes differentiated from cortical precursor cells. <i>Journal of Neurochemistry</i> , 2006, 97, 1057-1070.	3.9	72
13	Delivery of muscle-derived exosomal miRNAs induced by HIIT improves insulin sensitivity through down-regulation of hepatic FoxO1 in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30335-30343.	7.1	61
14	Astroglial Differentiation of Cortical Precursor Cells Triggered by Activation of the cAMP-Dependent Signaling Pathway. <i>Journal of Neuroscience</i> , 1999, 19, 9004-9015.	3.6	58
15	Activation of DREAM (Downstream Regulatory Element Antagonistic Modulator), a Calcium-Binding Protein, Reduces L-DOPA-Induced Dyskinesias in Mice. <i>Biological Psychiatry</i> , 2015, 77, 95-105.	1.3	58
16	The Pancreatic Islet-Specific Glucagon G3 Transcription Factors Recognize Control Elements in the Rat Somatostatin and Insulin-I Genes. <i>Molecular Endocrinology</i> , 1991, 5, 1457-1466.	3.7	56
17	D1-class dopamine receptors influence cocaine-induced persistent expression of Fos-related proteins in striatum. <i>NeuroReport</i> , 1996, 8, 1-5.	1.2	55
18	Pressor effect of centrally administered neuropeptide Y in rats: Role of sympathetic nervous system and vasopressin. <i>Life Sciences</i> , 1986, 38, 1859-1866.	4.3	50

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19	Pituitary Adenylate Cyclase-Activating Polypeptide Induces Astrocyte Differentiation of Precursor Cells from Developing Cerebral Cortex. <i>Molecular and Cellular Neurosciences</i> , 2002, 21, 671-683.	2.2	48
20	DREAM Mediates cAMP-Dependent, Ca <sup>2+</sup> -Induced Stimulation of GFAP Gene Expression and Regulates Cortical Astroglialgenesis. <i>Journal of Neuroscience</i> , 2008, 28, 6703-6713.	3.6	45
21	The Pancreatic Homeodomain Transcription Factor IDX1/IPF1 Is Expressed in Neural Cells during Brain Development. <i>Endocrinology</i> , 1999, 140, 3857-3860.	2.8	42
22	Diabetes Causes Dysfunctional Dopamine Neurotransmission Favoring Nigrostriatal Degeneration in Mice. <i>Movement Disorders</i> , 2020, 35, 1636-1648.	3.9	42
23	Impaired cyclic AMP-dependent phosphorylation renders CREB a repressor of C/EBP-induced transcription of the somatostatin gene in an insulinoma cell line. <i>Molecular and Cellular Biology</i> , 1995, 15, 415-424.	2.3	41
24	Transcriptional Control of Gene Expression by cAMP-Response Element Binding Proteins. <i>Journal of Neuroendocrinology</i> , 1994, 6, 587-596.	2.6	40
25	Alx3-deficient mice exhibit folic acid-resistant craniofacial midline and neural tube closure defects. <i>Developmental Biology</i> , 2010, 344, 869-880.	2.0	38
26	Pancreatic Homeodomain Transcription Factor IDX1/IPF1 Expressed in Developing Brain Regulates Somatostatin Gene Transcription in Embryonic Neural Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 19106-19114.	3.4	37
27	Role of muscle IL-6 in gender-specific metabolism in mice. <i>PLoS ONE</i> , 2017, 12, e0173675.	2.5	29
28	The metabolism and functions of inositol pentakisphosphate and inositol hexakisphosphate. <i>Biochemical Society Transactions</i> , 1989, 17, 3-5.	3.4	28
29	Increasing breast milk betaine modulates <i>Akkermansia</i> abundance in mammalian neonates and improves long-term metabolic health. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	28
30	Experimental evidence does not support use of the "eno-touch" isolation technique in colorectal cancer. <i>Diseases of the Colon and Rectum</i> , 1999, 42, 1449-1454.	1.3	26
31	PACAP signaling to DREAM: A cAMP-Dependent Pathway that Regulates Cortical Astroglialgenesis. <i>Molecular Neurobiology</i> , 2009, 39, 90-100.	4.0	25
32	rMSIproc: an R package for mass spectrometry imaging data processing. <i>Bioinformatics</i> , 2020, 36, 3618-3619.	4.1	21
33	Hypomorphic Expression of Pitx3 Disrupts Circadian Clocks and Prevents Metabolic Entrainment of Energy Expenditure. <i>Cell Reports</i> , 2019, 29, 3678-3692.e4.	6.4	20
34	Vasopressin stimulates inositol phospholipid metabolism in rat medulla oblongata in vivo. <i>Brain Research</i> , 1988, 450, 398-402.	2.2	19
35	Epigenetic programming at the <i>Mogat1</i> locus may link neonatal overnutrition with long-term hepatic steatosis and insulin resistance. <i>FASEB Journal</i> , 2018, 32, 6025-6037.	0.5	19
36	Regulation of somatostatin gene expression by brain derived neurotrophic factor in fetal rat cerebrocortical cells. <i>Brain Research</i> , 2011, 1375, 28-40.	2.2	18

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37	Evidence for a functional relationship between noradrenaline and neurohypophyseal peptides in the brainstem of rats. <i>Brain Research</i> , 1987, 422, 295-302.	2.2	17
38	The Homeoprotein Alx3 Contains Discrete Functional Domains and Exhibits Cell-specific and Selective Monomeric Binding and Transactivation. <i>Journal of Biological Chemistry</i> , 2004, 279, 38062-38071.	3.4	17
39	Repression of somatostatin gene transcription mediated by two promoter silencer elements. <i>Molecular and Cellular Endocrinology</i> , 1995, 113, 61-72.	3.2	15
40	The Homeoprotein Alx3 Expressed in Pancreatic $\beta$ -Cells Regulates Insulin Gene Transcription by Interacting with the Basic Helix-Loop-Helix Protein E47. <i>Molecular Endocrinology</i> , 2006, 20, 2876-2889.	3.7	15
41	The Pancreatic Homeodomain Transcription Factor IDX1/IPF1 Is Expressed in Neural Cells during Brain Development. <i>Endocrinology</i> , 1999, 140, 3857-3857.	2.8	14
42	Neonatal Administration of a Specific Neuropeptide Y Antiserum Alters the Vasopressin Response to Haemorrhage and the Hypothalamic Content of Noradrenaline in Rats. <i>Neuroendocrinology</i> , 1987, 45, 507-509.	2.5	12
43	Pituitary adenylate cyclase-activating polypeptide stimulates glial fibrillary acidic protein gene expression in cortical precursor cells by activating Ras and Rap1. <i>Molecular and Cellular Neurosciences</i> , 2008, 39, 291-301.	2.2	12
44	Differential configurations involving binding of USF transcription factors and Twist1 regulate <i>Alx3</i> promoter activity in mesenchymal and pancreatic cells. <i>Biochemical Journal</i> , 2013, 450, 199-208.	3.7	12
45	The Value of Mouse Models of Rare Diseases: A Spanish Experience. <i>Frontiers in Genetics</i> , 2020, 11, 583932.	2.3	12
46	Neonatal overfeeding during lactation rapidly and permanently misaligns the hepatic circadian rhythm and programmes adult NAFLD. <i>Molecular Metabolism</i> , 2021, 45, 101162.	6.5	12
47	Activity-dependent somatostatin gene expression is regulated by cAMP-dependent protein kinase and $Ca^{2+}$ -calmodulin kinase pathways. <i>Journal of Neuroscience Research</i> , 2010, 88, 825-836.	2.9	11
48	Alx3-deficient mice exhibit decreased insulin in beta cells, altered glucose homeostasis and increased apoptosis in pancreatic islets. <i>Diabetologia</i> , 2011, 54, 403-414.	6.3	10
49	Embryonic defence mechanisms against glucose-dependent oxidative stress require enhanced expression of Alx3 to prevent malformations during diabetic pregnancy. <i>Scientific Reports</i> , 2017, 7, 389.	3.3	10
50	Differential Regulation of Basal and Cyclic Adenosine 3',5'-Monophosphate-Induced Somatostatin Gene Transcription in Neural Cells by DNA Control Elements That Bind Homeodomain Proteins. <i>Molecular Endocrinology</i> , 1998, 12, 1280-1293.	3.7	9
51	The second-generation antipsychotic drug aripiprazole modulates the serotonergic system in pancreatic islets and induces beta cell dysfunction in female mice. <i>Diabetologia</i> , 2022, 65, 490-505.	6.3	9
52	Detection of genomically-tagged cancer cells in different tissues at different stages of tumor development: lack of correlation with the formation of metastasis. <i>Cancer Letters</i> , 1999, 140, 11-20.	7.2	8
53	Glucose-dependent downregulation of glucagon gene expression mediated by selective interactions between ALX3 and PAX6 in mouse alpha cells. <i>Diabetologia</i> , 2016, 59, 766-775.	6.3	6
54	Systemic Glucose Administration Alters Water Diffusion and Microvascular Blood Flow in Mouse Hypothalamic Nuclei – An fMRI Study. <i>Frontiers in Neuroscience</i> , 2019, 13, 921.	2.8	6

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55	Molecular Mechanisms of Phospholipid Signaling Pathways in Mammalian Nerve Cells. Cold Spring Harbor Symposia on Quantitative Biology, 1988, 53, 435-445.	1.1	6
56	Factors That Determine Cell-Specific Gene Expression in Pancreatic Endocrine Tumor Cells. Hormone Research, 1989, 32, 61-66.	1.8	5
57	BACE2 suppression in mice aggravates the adverse metabolic consequences of an obesogenic diet. Molecular Metabolism, 2021, 53, 101251.	6.5	4
58	Somatostatin Gene Structure and Regulation. , 2004, , 1-16.		2
59	Thearistaless-like homeobox protein Alx3 as an etiopathogenic factor for diabetes mellitus. Islets, 2011, 3, 66-68.	1.8	2
60	Pdx1 and USF transcription factors co-ordinately regulate Alx3 gene expression in pancreatic $\beta$ -cells. Biochemical Journal, 2014, 463, 287-296.	3.7	2
61	Restricting feeding to dark phase fails to entrain circadian activity and energy expenditure oscillations in Pitx3-mutant Aphakia mice. Cell Reports, 2022, 38, 110241.	6.4	2