

Jose Luis Gomez-Skarmeta

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/59961/publications.pdf>

Version: 2024-02-01

122
papers

8,416
citations

44042

48
h-index

54882

84
g-index

138
all docs

138
docs citations

138
times ranked

13040
citing authors

#	ARTICLE	IF	CITATIONS
1	Obesity-associated variants within FTO form long-range functional connections with IRX3. <i>Nature</i> , 2014, 507, 371-375.	13.7	1,079
2	araucan and caupolican, Two Members of the Novel Iroquois Complex, Encode Homeoproteins That Control Proneural and Vein-Forming Genes. <i>Cell</i> , 1996, 85, 95-105.	13.5	310
3	Amphioxus functional genomics and the origins of vertebrate gene regulation. <i>Nature</i> , 2018, 564, 64-70.	13.7	224
4	Dynamics of enhancer chromatin signatures mark the transition from pluripotency to cell specification during embryogenesis. <i>Genome Research</i> , 2012, 22, 2043-2053.	2.4	219
5	Active DNA demethylation at enhancers during the vertebrate phylotypic period. <i>Nature Genetics</i> , 2016, 48, 417-426.	9.4	210
6	Silencing of <i>Smed</i> - <i>catenin1</i> generates radial-like hypercephalized planarians. <i>Development (Cambridge)</i> , 2008, 135, 1215-1221.	1.2	192
7	Long-range gene regulation links genomic type 2 diabetes and obesity risk regions to <i>HHEX</i> , <i>SOX4</i> , and <i>IRX3</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 775-780.	3.3	189
8	TEAD and YAP regulate the enhancer network of human embryonic pancreatic progenitors. <i>Nature Cell Biology</i> , 2015, 17, 615-626.	4.6	188
9	A functional survey of the enhancer activity of conserved non-coding sequences from vertebrate Iroquois cluster gene deserts. <i>Genome Research</i> , 2005, 15, 1061-1072.	2.4	174
10	Cis-regulation of achaete and scute: shared enhancer-like elements drive their coexpression in proneural clusters of the imaginal discs. <i>Genes and Development</i> , 1995, 9, 1869-1882.	2.7	171
11	Genome-Wide Profiling of p63 DNA-Binding Sites Identifies an Element that Regulates Gene Expression during Limb Development in the 7q21 SHFM1 Locus. <i>PLoS Genetics</i> , 2010, 6, e1001065.	1.5	169
12	Zebrafish enhancer detection (ZED) vector: A new tool to facilitate transgenesis and the functional analysis of cis-regulatory regions in zebrafish. <i>Developmental Dynamics</i> , 2009, 238, 2409-2417.	0.8	153
13	Iroquois genes: genomic organization and function in vertebrate neural development. <i>Current Opinion in Genetics and Development</i> , 2002, 12, 403-408.	1.5	149
14	Evolutionary comparison reveals that diverging CTCF sites are signatures of ancestral topological associating domains borders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7542-7547.	3.3	147
15	Identification of the vertebrate Iroquois homeobox gene family with overlapping expression during early development of the nervous system. <i>Mechanisms of Development</i> , 1997, 69, 169-181.	1.7	146
16	The Dynamic Regulatory Genome of Capsaspora and the Origin of Animal Multicellularity. <i>Cell</i> , 2016, 165, 1224-1237.	13.5	139
17	Xiro, a Xenopus homolog of the Drosophila Iroquois complex genes, controls development at the neural plate. <i>EMBO Journal</i> , 1998, 17, 181-190.	3.5	133
18	3D genomics across the tree of life reveals condensin II as a determinant of architecture type. <i>Science</i> , 2021, 372, 984-989.	6.0	132

#	ARTICLE	IF	CITATIONS
19	Extensive conservation of ancient microsynteny across metazoans due to <i>cis</i> -regulatory constraints. <i>Genome Research</i> , 2012, 22, 2356-2367.	2.4	126
20	Odd-skipped genes encode repressors that control kidney development. <i>Developmental Biology</i> , 2007, 301, 518-531.	0.9	124
21	Deep conservation of wrist and digit enhancers in fish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 803-808.	3.3	121
22	A single three-dimensional chromatin compartment in amphioxus indicates a stepwise evolution of vertebrate Hox bimodal regulation. <i>Nature Genetics</i> , 2016, 48, 336-341.	9.4	113
23	Half a century of neural pre patterning: the story of a few bristles and many genes. <i>Nature Reviews Neuroscience</i> , 2003, 4, 587-598.	4.9	112
24	The Iroquois homeodomain proteins are required to specify body wall identity in <i>Drosophila</i> . <i>Genes and Development</i> , 1999, 13, 1754-1761.	2.7	110
25	araucan and caupolican provide a link between compartment subdivisions and patterning of sensory organs and veins in the <i>Drosophila</i> wing. <i>Genes and Development</i> , 1996, 10, 2935-2945.	2.7	106
26	MIR retrotransposon sequences provide insulators to the human genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4428-37.	3.3	104
27	Restless Legs Syndrome-associated intronic common variant in <i>Meis1</i> alters enhancer function in the developing telencephalon. <i>Genome Research</i> , 2014, 24, 592-603.	2.4	102
28	Genome-wide CTCF distribution in vertebrates defines equivalent sites that aid the identification of disease-associated genes. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 708-714.	3.6	95
29	iroquois: a prepattern gene that controls the formation of bristles on the thorax of <i>Drosophila</i> . <i>Mechanisms of Development</i> , 1996, 59, 63-72.	1.7	94
30	Transphyletic conservation of developmental regulatory state in animal evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14186-14191.	3.3	94
31	Noggin and Noggin-Like Genes Control Dorsoventral Axis Regeneration in Planarians. <i>Current Biology</i> , 2011, 21, 300-305.	1.8	93
32	Temporal uncoupling of the DNA methylome and transcriptional repression during embryogenesis. <i>Genome Research</i> , 2011, 21, 1313-1327.	2.4	92
33	The colorectal cancer risk at 18q21 is caused by a novel variant altering <i>SMAD7</i> expression. <i>Genome Research</i> , 2009, 19, 987-993.	2.4	85
34	<i>meis1</i> regulates <i>cyclin D1</i> and <i>c-myc</i> expression, and controls the proliferation of the multipotent cells in the early developing zebrafish eye. <i>Development (Cambridge)</i> , 2008, 135, 799-803.	1.2	83
35	Hoxd13 Contribution to the Evolution of Vertebrate Appendages. <i>Developmental Cell</i> , 2012, 23, 1219-1229.	3.1	83
36	Early evolution of the T-box transcription factor family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16050-16055.	3.3	80

#	ARTICLE	IF	CITATIONS
37	Dioxin receptor and SLUG transcription factors regulate the insulator activity of B1 SINE retrotransposons via an RNA polymerase switch. <i>Genome Research</i> , 2011, 21, 422-432.	2.4	76
38	Topologically associated domains: a successful scaffold for the evolution of gene regulation in animals. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2017, 6, e265.	5.9	75
39	Allelic Variation at the 8q23.3 Colorectal Cancer Risk Locus Functions as a Cis-Acting Regulator of EIF3H. <i>PLoS Genetics</i> , 2010, 6, e1001126.	1.5	74
40	An evolutionarily conserved three-dimensional structure in the vertebrate <i>lrx</i> clusters facilitates enhancer sharing and coregulation. <i>Nature Communications</i> , 2011, 2, 310.	5.8	73
41	A conserved <i>Shh</i> cis-regulatory module highlights a common developmental origin of unpaired and paired fins. <i>Nature Genetics</i> , 2018, 50, 504-509.	9.4	72
42	The <i>Xenopus lrx</i> genes are essential for neural patterning and define the border between prethalamus and thalamus through mutual antagonism with the anterior repressors <i>Fezf</i> and <i>Arx</i> . <i>Developmental Biology</i> , 2009, 329, 258-268.	0.9	68
43	Heartbeat-Driven Pericardiac Fluid Forces Contribute to Epicardium Morphogenesis. <i>Current Biology</i> , 2013, 23, 1726-1735.	1.8	68
44	Identification of the first recurrent <i>PAR1</i> deletion in LÃ©ry-Weill dyschondrosteosis and idiopathic short stature reveals the presence of a novel <i>SHOX</i> enhancer. <i>Journal of Medical Genetics</i> , 2012, 49, 442-450.	1.5	63
45	The emergence of the brain non-CpG methylation system in vertebrates. <i>Nature Ecology and Evolution</i> , 2021, 5, 369-378.	3.4	63
46	Xiro homeoproteins coordinate cell cycle exit and primary neuron formation by upregulating neuronal-fate repressors and downregulating the cell-cycle inhibitor <i>XGadd45-1³</i> . <i>Mechanisms of Development</i> , 2002, 119, 69-80.	1.7	56
47	A dual requirement for Iroquois genes during <i>Xenopus</i> kidney development. <i>Development (Cambridge)</i> , 2008, 135, 3197-3207.	1.2	55
48	Conserved developmental expression of <i>Fezf</i> in chordates and <i>Drosophila</i> and the origin of the Zona Limitans Intrathalamica (ZLI) brain organizer. <i>EvoDevo</i> , 2010, 1, 7.	1.3	55
49	CTCF counter-regulates cardiomyocyte development and maturation programs in the embryonic heart. <i>PLoS Genetics</i> , 2017, 13, e1006985.	1.5	54
50	Long-range regulatory interactions at the 4q25 atrial fibrillation risk locus involve <i>PITX2c</i> and <i>ENPEP</i> . <i>BMC Biology</i> , 2015, 13, 26.	1.7	53
51	Conservative route to genome compaction in a miniature annelid. <i>Nature Ecology and Evolution</i> , 2021, 5, 231-242.	3.4	51
52	Characterization of the accessible genome in the human malaria parasite <i>Plasmodium falciparum</i> . <i>Nucleic Acids Research</i> , 2018, 46, 9414-9431.	6.5	50
53	Conserved cross-interactions in <i>Drosophila</i> and <i>Xenopus</i> between <i>Ras</i> /MAPK signaling and the dual-specificity phosphatase <i>MKP3</i> . <i>Developmental Dynamics</i> , 2005, 232, 695-708.	0.8	49
54	Suppression of <i>Bmp4</i> signaling by the zinc-finger repressors <i>Osr1</i> and <i>Osr2</i> is required for <i>Wnt</i> / β -catenin-mediated lung specification in <i>Xenopus</i> . <i>Development (Cambridge)</i> , 2012, 139, 3010-3020.	1.2	49

#	ARTICLE	IF	CITATIONS
55	A novel function for the Xslug gene: control of dorsal mesendoderm development by repressing BMP-4. <i>Mechanisms of Development</i> , 2000, 97, 47-56.	1.7	48
56	The genome sequencing of an albino Western lowland gorilla reveals inbreeding in the wild. <i>BMC Genomics</i> , 2013, 14, 363.	1.2	48
57	The developmental epigenomics toolbox: ChIP-seq and MethylCap-seq profiling of early zebrafish embryos. <i>Methods</i> , 2013, 62, 207-215.	1.9	47
58	Comparative epigenomics in distantly related teleost species identifies conserved cis-regulatory nodes active during the vertebrate phylotypic period. <i>Genome Research</i> , 2014, 24, 1075-1085.	2.4	47
59	A Polymorphic Enhancer near GREM1 Influences Bowel Cancer Risk through Differential CDX2 and TCF7L2 Binding. <i>Cell Reports</i> , 2014, 8, 983-990.	2.9	45
60	New technologies, new findings, and new concepts in the study of vertebrate cis-regulatory sequences. <i>Developmental Dynamics</i> , 2006, 235, 870-885.	0.8	40
61	The 14q22.2 colorectal cancer variant rs4444235 shows cis-acting regulation of BMP4. <i>Oncogene</i> , 2012, 31, 3777-3784.	2.6	39
62	Xenopus brain factor-2 controls mesoderm, forebrain and neural crest development. <i>Mechanisms of Development</i> , 1999, 80, 15-27.	1.7	38
63	Gene regulatory network architecture in different developmental contexts influences the genetic basis of morphological evolution. <i>PLoS Genetics</i> , 2018, 14, e1007375.	1.5	38
64	Multiple enhancers located in a 1-Mb region upstream of POU3F4 promote expression during inner ear development and may be required for hearing. <i>Human Genetics</i> , 2010, 128, 411-419.	1.8	35
65	An ancient genomic regulatory block conserved across bilaterians and its dismantling in tetrapods by retrogene replacement. <i>Genome Research</i> , 2012, 22, 642-655.	2.4	35
66	Coenzyme Q10 and alpha-tocopherol protect against amitriptyline toxicity. <i>Toxicology and Applied Pharmacology</i> , 2009, 235, 329-337.	1.3	34
67	Cracking the genome's second code: Enhancer detection by combined phylogenetic footprinting and transgenic fish and frog embryos. <i>Methods</i> , 2006, 39, 212-219.	1.9	33
68	New frontiers in the evolution of fin development. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2014, 322, 540-552.	0.6	32
69	Meis1 coordinates a network of genes implicated in eye development and microphthalmia. <i>Development (Cambridge)</i> , 2015, 142, 3009-20.	1.2	32
70	Xiro-1 controls mesoderm patterning by repressing bmp-4 expression in the spemann organizer. <i>Developmental Dynamics</i> , 2001, 222, 368-376.	0.8	31
71	The <i>osr1</i> and <i>osr2</i> genes act in the pronephric anlage downstream of retinoic acid signaling and upstream of <i>wnt2b</i> to maintain pectoral fin development. <i>Development (Cambridge)</i> , 2012, 139, 301-311.	1.2	31
72	Evolution of embryonic cis-regulatory landscapes between divergent Phallusia and Ciona ascidians. <i>Developmental Biology</i> , 2019, 448, 71-87.	0.9	29

#	ARTICLE	IF	CITATIONS
73	Assay for transposase-accessible chromatin and circularized chromosome conformation capture, two methods to explore the regulatory landscapes of genes in zebrafish. <i>Methods in Cell Biology</i> , 2016, 135, 413-430.	0.5	28
74	Asthma-associated genetic variants induce IL33 differential expression through an enhancer-blocking regulatory region. <i>Nature Communications</i> , 2021, 12, 6115.	5.8	28
75	The <i>Irx</i> gene family in zebrafish: genomic structure, evolution and initial characterization of <i>irx5b</i> . <i>Development Genes and Evolution</i> , 2004, 214, 277-284.	0.4	27
76	Profiling of conserved non-coding elements upstream of SHOX and functional characterisation of the SHOX cis-regulatory landscape. <i>Scientific Reports</i> , 2016, 5, 17667.	1.6	27
77	RE-1 Silencer of Transcription/Neural Restrictive Silencer Factor Modulates Ectodermal Patterning during <i>Xenopus</i> Development. <i>Journal of Neuroscience</i> , 2006, 26, 2820-2829.	1.7	26
78	Deep conservation of cis-regulatory elements in metazoans. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20130020.	1.8	26
79	Evolutionary emergence of the <i>rac3b</i> / <i>rfg</i> / <i>sgca</i> regulatory cluster refined mechanisms for hindbrain boundaries formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3731-E3740.	3.3	26
80	Multiomic atlas with functional stratification and developmental dynamics of zebrafish cis-regulatory elements. <i>Nature Genetics</i> , 2022, 54, 1037-1050.	9.4	26
81	Identification and Analysis of Conserved cis-Regulatory Regions of the MEIS1 Gene. <i>PLoS ONE</i> , 2012, 7, e33617.	1.1	20
82	Understanding the regulatory genome. <i>International Journal of Developmental Biology</i> , 2009, 53, 1367-1378.	0.3	19
83	Genetic regulation of amphioxus somitogenesis informs the evolution of the vertebrate head mesoderm. <i>Nature Ecology and Evolution</i> , 2019, 3, 1233-1240.	3.4	19
84	Epigenomic profiling of primate lymphoblastoid cell lines reveals the evolutionary patterns of epigenetic activities in gene regulatory architectures. <i>Nature Communications</i> , 2021, 12, 3116.	5.8	19
85	Several Cis-regulatory Elements Control mRNA Stability, Translation Efficiency, and Expression Pattern of <i>Prrxl1</i> (Paired Related Homeobox Protein-like 1). <i>Journal of Biological Chemistry</i> , 2013, 288, 36285-36301.	1.6	17
86	<i>SIRPB1</i> copy number polymorphism as candidate quantitative trait locus for impulsive-disinhibited personality. <i>Genes, Brain and Behavior</i> , 2014, 13, 653-662.	1.1	17
87	Dynamic changes in the epigenomic landscape regulate human organogenesis and link to developmental disorders. <i>Nature Communications</i> , 2020, 11, 3920.	5.8	17
88	Formation of posterior cranial placode derivatives requires the Iroquois transcription factor <i>irx4a</i> . <i>Molecular and Cellular Neurosciences</i> , 2009, 40, 328-337.	1.0	16
89	A conserved function of the chromatin ATPase Kismet in the regulation of hedgehog expression. <i>Developmental Biology</i> , 2011, 350, 382-392.	0.9	16
90	Differences in enhancer activity in mouse and zebrafish reporter assays are often associated with changes in gene expression. <i>BMC Genomics</i> , 2012, 13, 713.	1.2	16

#	ARTICLE	IF	CITATIONS
91	Embryonic DNA methylation: insights from the genomics era. <i>Briefings in Functional Genomics</i> , 2014, 13, 121-130.	1.3	16
92	Genome-wide epigenetic cross-talk between DNA methylation and H3K27me3 in zebrafish embryos. <i>Genomics Data</i> , 2015, 6, 7-9.	1.3	16
93	The conserved barH-like homeobox-2 gene <i>barhl2</i> acts downstream of <i>orthodenticle-2</i> and together with <i>iroquois-3</i> in establishment of the caudal forebrain signaling center induced by Sonic Hedgehog. <i>Developmental Biology</i> , 2014, 396, 107-120.	0.9	15
94	Cis-regulatory landscapes in development and evolution. <i>Current Opinion in Genetics and Development</i> , 2017, 43, 17-22.	1.5	15
95	Dissecting the Transcriptional Regulatory Properties of Human Chromosome 16 Highly Conserved Non-Coding Regions. <i>PLoS ONE</i> , 2011, 6, e24824.	1.1	13
96	An evolutionary perspective of regulatory landscape dynamics in development and disease. <i>Current Opinion in Cell Biology</i> , 2018, 55, 24-29.	2.6	13
97	Ancient Genomic Regulatory Blocks Are a Source for Regulatory Gene Deserts in Vertebrates after Whole-Genome Duplications. <i>Molecular Biology and Evolution</i> , 2020, 37, 2857-2864.	3.5	13
98	The Xiro-repressed gene <i>CoREST</i> is expressed in <i>Xenopus</i> neural territories. <i>Mechanisms of Development</i> , 2002, 110, 209-211.	1.7	12
99	A mobile insulator system to detect and disrupt <i>cis</i> -regulatory landscapes in vertebrates. <i>Genome Research</i> , 2014, 24, 487-495.	2.4	12
100	Assaying Chromatin Accessibility Using ATAC-Seq in Invertebrate Chordate Embryos. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 7, 372.	1.8	12
101	Characterization of New Otic Enhancers of the <i>Pou3f4</i> Gene Reveal Distinct Signaling Pathway Regulation and Spatio-Temporal Patterns. <i>PLoS ONE</i> , 2010, 5, e15907.	1.1	12
102	<i>Xenopus</i> <i>Xlmo4</i> is a GATA cofactor during ventral mesoderm formation and regulates <i>Ldb1</i> availability at the dorsal mesoderm and the neural plate. <i>Developmental Biology</i> , 2003, 264, 564-581.	0.9	11
103	A role for insulator elements in the regulation of gene expression response to hypoxia. <i>Nucleic Acids Research</i> , 2012, 40, 1916-1927.	6.5	11
104	<i>Yap1b</i> , a divergent <i>Yap/Taz</i> family member, cooperates with <i>yap1</i> in survival and morphogenesis via common transcriptional targets. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	10
105	4Cin: A computational pipeline for 3D genome modeling and virtual Hi-C analyses from 4C data. <i>PLoS Computational Biology</i> , 2018, 14, e1006030.	1.5	9
106	The <i>Shh</i> / <i>Gli3</i> gene regulatory network precedes the origin of paired fins and reveals the deep homology between distal fins and digits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	9
107	Gain of gene regulatory network interconnectivity at the origin of vertebrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2114802119.	3.3	9
108	<i>XTIF2</i> , a <i>Xenopus</i> homologue of the human transcription intermediary factor, is required for a nuclear receptor pathway that also interacts with CBP to suppress <i>Brachyury</i> and <i>XMyoD</i> . <i>Mechanisms of Development</i> , 2000, 91, 119-129.	1.7	6

#	ARTICLE	IF	CITATIONS
109	Matricellular protein SPARC/osteonectin expression is regulated by DNA methylation in its core promoter region. <i>Developmental Dynamics</i> , 2015, 244, 693-702.	0.8	6
110	A common copy-number variant within SIRPB1 correlates with human Out-of-Africa migration after genetic drift correction. <i>PLoS ONE</i> , 2018, 13, e0193614.	1.1	6
111	Engineered Salmonella allows real-time heterologous gene expression monitoring within infected zebrafish embryos. <i>Journal of Biotechnology</i> , 2012, 157, 413-416.	1.9	5
112	Deletion 1q43â€“44 in a patient with clinical diagnosis of Warburgâ€“Micro syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2015, 167, 1243-1251.	0.7	5
113	Boundary sequences flanking the mouse tyrosinase locus ensure faithful pattern of gene expression. <i>Scientific Reports</i> , 2020, 10, 15494.	1.6	5
114	Making Reporter Gene Constructs to Analyze Cis-regulatory Elements. <i>Methods in Molecular Biology</i> , 2012, 772, 397-408.	0.4	5
115	ATAC-Seq for Assaying Chromatin Accessibility Protocol Using Echinoderm Embryos. <i>Methods in Molecular Biology</i> , 2021, 2219, 253-265.	0.4	5
116	Multidimensional chromatin profiling of zebrafish pancreas to uncover and investigate disease-relevant enhancers. <i>Nature Communications</i> , 2022, 13, 1945.	5.8	5
117	Gene Regulatory Networks of Epidermal and Neural Fate Choice in a Chordate. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	4
118	Regulatory Architecture of the RCA Gene Cluster Captures an Intragenic TAD Boundary, CTCF-Mediated Chromatin Looping and a Long-Range Intergenic Enhancer. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	4
119	<i>sox21a</i> directs lateral line patterning by modulating FGF signaling. <i>Developmental Neurobiology</i> , 2015, 75, 80-92.	1.5	3
120	A novel chromatin insulator regulates the chicken folate receptor gene from the influence of nearby constitutive heterochromatin and the β -globin locus. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2015, 1849, 955-965.	0.9	3
121	Reprogramming Nuclear Architecture: Just a TAD. <i>Cell Stem Cell</i> , 2019, 24, 679-681.	5.2	2
122	Editorial. <i>Seminars in Cell and Developmental Biology</i> , 2016, 57, 1.	2.3	0