

Jose Luis Gomez-Skarmeta

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

8,416
citations

43973

48
h-index

54797

84
g-index

138
all docs

138
docs citations

138
times ranked

13040
citing authors

#	ARTICLE	IF	CITATIONS
1	Gain of gene regulatory network interconnectivity at the origin of vertebrates. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2114802119.	3.3	9
2	Gene Regulatory Networks of Epidermal and Neural Fate Choice in a Chordate. Molecular Biology and Evolution, 2022, 39, .	3.5	4
3	Multidimensional chromatin profiling of zebrafish pancreas to uncover and investigate disease-relevant enhancers. Nature Communications, 2022, 13, 1945.	5.8	5
4	Multiomic atlas with functional stratification and developmental dynamics of zebrafish cis-regulatory elements. Nature Genetics, 2022, 54, 1037-1050.	9.4	26
5	Conservative route to genome compaction in a miniature annelid. Nature Ecology and Evolution, 2021, 5, 231-242.	3.4	51
6	The emergence of the brain non-CpG methylation system in vertebrates. Nature Ecology and Evolution, 2021, 5, 369-378.	3.4	63
7	Epigenomic profiling of primate lymphoblastoid cell lines reveals the evolutionary patterns of epigenetic activities in gene regulatory architectures. Nature Communications, 2021, 12, 3116.	5.8	19
8	3D genomics across the tree of life reveals condensin II as a determinant of architecture type. Science, 2021, 372, 984-989.	6.0	132
9	Asthma-associated genetic variants induce IL33 differential expression through an enhancer-blocking regulatory region. Nature Communications, 2021, 12, 6115.	5.8	28
10	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. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	9
11	ATAC-Seq for Assaying Chromatin Accessibility Protocol Using Echinoderm Embryos. Methods in Molecular Biology, 2021, 2219, 253-265.	0.4	5
12	Dynamic changes in the epigenomic landscape regulate human organogenesis and link to developmental disorders. Nature Communications, 2020, 11, 3920.	5.8	17
13	Boundary sequences flanking the mouse tyrosinase locus ensure faithful pattern of gene expression. Scientific Reports, 2020, 10, 15494.	1.6	5
14	Ancient Genomic Regulatory Blocks Are a Source for Regulatory Gene Deserts in Vertebrates after Whole-Genome Duplications. Molecular Biology and Evolution, 2020, 37, 2857-2864.	3.5	13
15	Assaying Chromatin Accessibility Using ATAC-Seq in Invertebrate Chordate Embryos. Frontiers in Cell and Developmental Biology, 2020, 7, 372.	1.8	12
16	Genetic regulation of amphioxus somitogenesis informs the evolution of the vertebrate head mesoderm. Nature Ecology and Evolution, 2019, 3, 1233-1240.	3.4	19
17	Yap1b, a divergent Yap/Taz family member, cooperates with yap1 in survival and morphogenesis via common transcriptional targets. Development (Cambridge), 2019, 146, .	1.2	10
18	Reprogramming Nuclear Architecture: Just a TAD. Cell Stem Cell, 2019, 24, 679-681.	5.2	2

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19	Evolution of embryonic cis-regulatory landscapes between divergent Phallusia and Ciona ascidians. <i>Developmental Biology</i> , 2019, 448, 71-87.	0.9	29
20	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
21	A conserved Shh cis-regulatory module highlights a common developmental origin of unpaired and paired fins. <i>Nature Genetics</i> , 2018, 50, 504-509.	9.4	72
22	Amphioxus functional genomics and the origins of vertebrate gene regulation. <i>Nature</i> , 2018, 564, 64-70.	13.7	224
23	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
24	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
25	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
26	A common copy-number variant within <i>SIRPB1</i> correlates with human Out-of-Africa migration after genetic drift correction. <i>PLoS ONE</i> , 2018, 13, e0193614.	1.1	6
27	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
28	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
29	Cis-regulatory landscapes in development and evolution. <i>Current Opinion in Genetics and Development</i> , 2017, 43, 17-22.	1.5	15
30	CTCF counter-regulates cardiomyocyte development and maturation programs in the embryonic heart. <i>PLoS Genetics</i> , 2017, 13, e1006985.	1.5	54
31	Profiling of conserved non-coding elements upstream of <i>SHOX</i> and functional characterisation of the <i>SHOX</i> cis-regulatory landscape. <i>Scientific Reports</i> , 2016, 5, 17667.	1.6	27
32	The Dynamic Regulatory Genome of <i>Capsaspora</i> and the Origin of Animal Multicellularity. <i>Cell</i> , 2016, 165, 1224-1237.	13.5	139
33	Editorial. <i>Seminars in Cell and Developmental Biology</i> , 2016, 57, 1.	2.3	0
34	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
35	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
36	Active DNA demethylation at enhancers during the vertebrate phylotypic period. <i>Nature Genetics</i> , 2016, 48, 417-426.	9.4	210

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37	Genome-wide epigenetic cross-talk between DNA methylation and H3K27me3 in zebrafish embryos. <i>Genomics Data</i> , 2015, 6, 7-9.	1.3	16
38	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
39	<i>sox21a</i> directs lateral line patterning by modulating FGF signaling. <i>Developmental Neurobiology</i> , 2015, 75, 80-92.	1.5	3
40	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
41	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
42	TEAD and YAP regulate the enhancer network of human embryonic pancreatic progenitors. <i>Nature Cell Biology</i> , 2015, 17, 615-626.	4.6	188
43	Deletion 1q43 in a patient with clinical diagnosis of Warburg-Micro syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2015, 167, 1243-1251.	0.7	5
44	Long-range regulatory interactions at the 4q25 atrial fibrillation risk locus involve PITX2c and ENPEP. <i>BMC Biology</i> , 2015, 13, 26.	1.7	53
45	Meis1 coordinates a network of genes implicated in eye development and microphthalmia. <i>Development (Cambridge)</i> , 2015, 142, 3009-20.	1.2	32
46	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
47	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
48	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
49	<i>SIRPB1</i> copy number polymorphism as candidate quantitative trait locus for impulsive-inhibited personality. <i>Genes, Brain and Behavior</i> , 2014, 13, 653-662.	1.1	17
50	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
51	Obesity-associated variants within FTO form long-range functional connections with IRX3. <i>Nature</i> , 2014, 507, 371-375.	13.7	1,079
52	Comparative epigenomics in distantly related teleost species identifies conserved <i>cis</i> -regulatory nodes active during the vertebrate phylotypic period. <i>Genome Research</i> , 2014, 24, 1075-1085.	2.4	47
53	Embryonic DNA methylation: insights from the genomics era. <i>Briefings in Functional Genomics</i> , 2014, 13, 121-130.	1.3	16
54	The conserved barH-like homeobox-2 gene <i>barhl2</i> acts downstream of orthodenticle-2 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

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55	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
56	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
57	The genome sequencing of an albino Western lowland gorilla reveals inbreeding in the wild. <i>BMC Genomics</i> , 2013, 14, 363.	1.2	48
58	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
59	Heartbeat-Driven Pericardiac Fluid Forces Contribute to Epicardium Morphogenesis. <i>Current Biology</i> , 2013, 23, 1726-1735.	1.8	68
60	The developmental epigenomics toolbox: ChIP-seq and MethylCap-seq profiling of early zebrafish embryos. <i>Methods</i> , 2013, 62, 207-215.	1.9	47
61	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
62	Several Cis-regulatory Elements Control mRNA Stability, Translation Efficiency, and Expression Pattern of Prrxl1 (Paired Related Homeobox Protein-like 1). <i>Journal of Biological Chemistry</i> , 2013, 288, 36285-36301.	1.6	17
63	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
64	Identification of the first recurrent PAR1 deletion in LÃ©ry-Weill dyschondrosteosis and idiopathic short stature reveals the presence of a novel SHOX enhancer. <i>Journal of Medical Genetics</i> , 2012, 49, 442-450.	1.5	63
65	The 14q22.2 colorectal cancer variant rs4444235 shows cis-acting regulation of BMP4. <i>Oncogene</i> , 2012, 31, 3777-3784.	2.6	39
66	The osr1 and osr2 genes act in the pronephric anlage downstream of retinoic acid signaling and upstream of wnt2b to maintain pectoral fin development. <i>Development (Cambridge)</i> , 2012, 139, 301-311.	1.2	31
67	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
68	Hoxd13 Contribution to the Evolution of Vertebrate Appendages. <i>Developmental Cell</i> , 2012, 23, 1219-1229.	3.1	83
69	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
70	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
71	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
72	Extensive conservation of ancient microsynteny across metazoans due to cis-regulatory constraints. <i>Genome Research</i> , 2012, 22, 2356-2367.	2.4	126

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73	Suppression of Bmp4 signaling by the zinc-finger repressors Osr1 and Osr2 is required for Wnt/ β -catenin-mediated lung specification in <i>Xenopus</i> . <i>Development (Cambridge)</i> , 2012, 139, 3010-3020.	1.2	49
74	Making Reporter Gene Constructs to Analyze Cis-regulatory Elements. <i>Methods in Molecular Biology</i> , 2012, 772, 397-408.	0.4	5
75	Identification and Analysis of Conserved cis-Regulatory Regions of the MEIS1 Gene. <i>PLoS ONE</i> , 2012, 7, e33617.	1.1	20
76	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
77	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
78	Dissecting the Transcriptional Regulatory Properties of Human Chromosome 16 Highly Conserved Non-Coding Regions. <i>PLoS ONE</i> , 2011, 6, e24824.	1.1	13
79	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
80	Noggin and Noggin-Like Genes Control Dorsoventral Axis Regeneration in Planarians. <i>Current Biology</i> , 2011, 21, 300-305.	1.8	93
81	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
82	Temporal uncoupling of the DNA methylome and transcriptional repression during embryogenesis. <i>Genome Research</i> , 2011, 21, 1313-1327.	2.4	92
83	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
84	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
85	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
86	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
87	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
88	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
89	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
90	Understanding the regulatory genome. <i>International Journal of Developmental Biology</i> , 2009, 53, 1367-1378.	0.3	19

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91	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
92	Coenzyme Q10 and alpha-tocopherol protect against amitriptyline toxicity. <i>Toxicology and Applied Pharmacology</i> , 2009, 235, 329-337.	1.3	34
93	Zebrafish enhancer detection (ZED) vector: A new tool to facilitate transgenesis and the functional analysis of <i>cis</i> -regulatory regions in zebrafish. <i>Developmental Dynamics</i> , 2009, 238, 2409-2417.	0.8	153
94	The <i>Xenopus</i> <i>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
95	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
96	<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
97	A dual requirement for Iroquois genes during <i>Xenopus</i> kidney development. <i>Development (Cambridge)</i> , 2008, 135, 3197-3207.	1.2	55
98	Silencing of <i>Smed</i> - β 2 β <i>catenin1</i> generates radial-like hypercephalized planarians. <i>Development (Cambridge)</i> , 2008, 135, 1215-1221.	1.2	192
99	Odd-skipped genes encode repressors that control kidney development. <i>Developmental Biology</i> , 2007, 301, 518-531.	0.9	124
100	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
101	New technologies, new findings, and new concepts in the study of vertebrate <i>cis</i> -regulatory sequences. <i>Developmental Dynamics</i> , 2006, 235, 870-885.	0.8	40
102	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
103	Conserved cross-interactions in <i>Drosophila</i> and <i>Xenopus</i> between Ras/MAPK signaling and the dual-specificity phosphatase MKP3. <i>Developmental Dynamics</i> , 2005, 232, 695-708.	0.8	49
104	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
105	The <i>lrx</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
106	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
107	<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
108	The Xiro-repressed gene CoREST is expressed in <i>Xenopus</i> neural territories. <i>Mechanisms of Development</i> , 2002, 110, 209-211.	1.7	12

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109	Xiro homeoproteins coordinate cell cycle exit and primary neuron formation by upregulating neuronal-fate repressors and downregulating the cell-cycle inhibitor XGadd45-1 ³ . <i>Mechanisms of Development</i> , 2002, 119, 69-80.	1.7	56
110	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
111	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
112	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
113	XTIF2, 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 Brachyury and XMyoD. <i>Mechanisms of Development</i> , 2000, 91, 119-129.	1.7	6
114	<i>Xenopus</i> brain factor-2 controls mesoderm, forebrain and neural crest development. <i>Mechanisms of Development</i> , 1999, 80, 15-27.	1.7	38
115	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
116	Xiro, a <i>Xenopus</i> homolog of the <i>Drosophila</i> Iroquois complex genes, controls development at the neural plate. <i>EMBO Journal</i> , 1998, 17, 181-190.	3.5	133
117	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
118	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
119	iroquois: a prepatterning 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
120	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
121	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
122	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