

# Marc A MartÃ-â€renom

## List of Publications by Year in descending order

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129  
papers

17,303  
citations

41344

49  
h-index

16183

124  
g-index

156  
all docs

156  
docs citations

156  
times ranked

26885  
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into the mechanisms underlying aberrant SOX11 oncogene expression in mantle cell lymphoma. <i>Leukemia</i> , 2022, 36, 583-587.	7.2	5
2	Identification of chromatin loops from Hi-C interaction matrices by CTCF-CTCF topology classification. <i>NAR Genomics and Bioinformatics</i> , 2022, 4, lqac021.	3.2	13
3	Coordinated changes in gene expression, H1 variant distribution and genome 3D conformation in response to H1 depletion. <i>Nucleic Acids Research</i> , 2022, 50, 3892-3910.	14.5	10
4	In vivo temporal resolution of acute promyelocytic leukemia progression reveals a role of <i>Klf4</i> in suppressing early leukemic transformation. <i>Genes and Development</i> , 2022, 36, 451-467.	5.9	1
5	TADs enriched in histone H1.2 strongly overlap with the B compartment, inaccessible chromatin, and AT-rich Ciernia bands. <i>FEBS Journal</i> , 2021, 288, 1989-2013.	4.7	10
6	4D nucleome modeling. <i>Current Opinion in Genetics and Development</i> , 2021, 67, 25-32.	3.3	34
7	OUP accepted manuscript. <i>Nucleic Acids Research</i> , 2021, 49, 11005-11021.	14.5	14
8	3D reconstruction of genomic regions from sparse interaction data. <i>NAR Genomics and Bioinformatics</i> , 2021, 3, lqab017.	3.2	2
9	Dynamics of genome architecture and chromatin function during human B cell differentiation and neoplastic transformation. <i>Nature Communications</i> , 2021, 12, 651.	12.8	67
10	A multilayered post-GWAS assessment on genetic susceptibility to pancreatic cancer. <i>Genome Medicine</i> , 2021, 13, 15.	8.2	15
11	Benchmarking experiments with polymer modeling. <i>Nature Methods</i> , 2021, 18, 456-457.	19.0	3
12	The impact of chromosomal fusions on 3D genome folding and recombination in the germ line. <i>Nature Communications</i> , 2021, 12, 2981.	12.8	34
13	Polymer modelling unveils the roles of heterochromatin and nucleolar organizing regions in shaping 3D genome organization in <i>Arabidopsis thaliana</i> . <i>Nucleic Acids Research</i> , 2021, 49, 1840-1858.	14.5	34
14	Analysis, Modeling, and Visualization of Chromosome Conformation Capture Experiments. <i>Methods in Molecular Biology</i> , 2021, 2157, 35-63.	0.9	2
15	Three-dimensional genome organization via triplex-forming RNAs. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 945-954.	8.2	18
16	CHESS enables quantitative comparison of chromatin contact data and automatic feature extraction. <i>Nature Genetics</i> , 2020, 52, 1247-1255.	21.4	32
17	Muscle progenitor specification and myogenic differentiation are associated with changes in chromatin topology. <i>Nature Communications</i> , 2020, 11, 6222.	12.8	28
18	LifeTime and improving European healthcare through cell-based interceptive medicine. <i>Nature</i> , 2020, 587, 377-386.	27.8	108

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19	TADs without borders. <i>Nature Genetics</i> , 2020, 52, 752-753.	21.4	3
20	3D mapping and accelerated super-resolution imaging of the human genome using in situ sequencing. <i>Nature Methods</i> , 2020, 17, 822-832.	19.0	99
21	Hi-C chromosome conformation capture sequencing of avian genomes using the BGISEQ-500 platform. <i>GigaScience</i> , 2020, 9, .	6.4	6
22	CTCF is dispensable for immune cell transdifferentiation but facilitates an acute inflammatory response. <i>Nature Genetics</i> , 2020, 52, 655-661.	21.4	98
23	4D Genome Rewiring during Oncogene-Induced and Replicative Senescence. <i>Molecular Cell</i> , 2020, 78, 522-538.e9.	9.7	107
24	Hierarchical chromatin organization detected by TADpole. <i>Nucleic Acids Research</i> , 2020, 48, e39-e39.	14.5	22
25	Impact of Chromosome Fusions on 3D Genome Organization and Gene Expression in Budding Yeast. <i>Genetics</i> , 2020, 214, 651-667.	2.9	9
26	Transcriptional activation during cell reprogramming correlates with the formation of 3D open chromatin hubs. <i>Nature Communications</i> , 2020, 11, 2564.	12.8	41
27	Three-Dimensional Genomic Structure and Cohesin Occupancy Correlate with Transcriptional Activity during Spermatogenesis. <i>Cell Reports</i> , 2019, 28, 352-367.e9.	6.4	112
28	Human pancreatic islet three-dimensional chromatin architecture provides insights into the genetics of type 2 diabetes. <i>Nature Genetics</i> , 2019, 51, 1137-1148.	21.4	208
29	RNA proximity sequencing reveals the spatial organization of the transcriptome in the nucleus. <i>Nature Biotechnology</i> , 2019, 37, 793-802.	17.5	30
30	Specific Contributions of Cohesin-SA1 and Cohesin-SA2 to TADs and Polycomb Domains in Embryonic Stem Cells. <i>Cell Reports</i> , 2019, 27, 3500-3510.e4.	6.4	60
31	Binless normalization of Hi-C data provides significant interaction and difference detection independent of resolution. <i>Nature Communications</i> , 2019, 10, 1938.	12.8	12
32	Communicating Genome Architecture: Biovisualization of the Genome, from Data Analysis and Hypothesis Generation to Communication and Learning. <i>Journal of Molecular Biology</i> , 2019, 431, 1071-1087.	4.2	3
33	Restraint-Based Modeling of Genomes and Genomic Domains. , 2019, , 233-252.		1
34	OneD: increasing reproducibility of Hi-C samples with abnormal karyotypes. <i>Nucleic Acids Research</i> , 2018, 46, e49-e49.	14.5	50
35	Transcription factors orchestrate dynamic interplay between genome topology and gene regulation during cell reprogramming. <i>Nature Genetics</i> , 2018, 50, 238-249.	21.4	295
36	Walking along chromosomes with super-resolution imaging, contact maps, and integrative modeling. <i>PLoS Genetics</i> , 2018, 14, e1007872.	3.5	209

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37	Challenges and guidelines toward 4D nucleome data and model standards. <i>Nature Genetics</i> , 2018, 50, 1352-1358.	21.4	47
38	Promoter bivalency favors an open chromatin architecture in embryonic stem cells. <i>Nature Genetics</i> , 2018, 50, 1452-1462.	21.4	113
39	The reference epigenome and regulatory chromatin landscape of chronic lymphocytic leukemia. <i>Nature Medicine</i> , 2018, 24, 868-880.	30.7	157
40	Lamin B1 mapping reveals the existence of dynamic and functional euchromatin lamin B1 domains. <i>Nature Communications</i> , 2018, 9, 3420.	12.8	66
41	Distinct roles of cohesin-SA1 and cohesin-SA2 in 3D chromosome organization. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 496-504.	8.2	128
42	Defined chromosome structure in the genome-reduced bacterium <i>Mycoplasma pneumoniae</i> . <i>Nature Communications</i> , 2017, 8, 14665.	12.8	81
43	<sc>3D</sc> modeling of chromatin structure: is there a way to integrate and reconcile single cell and population experimental data?. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2017, 7, e1308.	14.6	11
44	Rational design of non-resistant targeted cancer therapies. <i>Scientific Reports</i> , 2017, 7, 46632.	3.3	11
45	Challenges for visualizing three-dimensional data in genomic browsers. <i>FEBS Letters</i> , 2017, 591, 2505-2519.	2.8	11
46	Single-cell absolute contact probability detection reveals chromosomes are organized by multiple low-frequency yet specific interactions. <i>Nature Communications</i> , 2017, 8, 1753.	12.8	137
47	Parallel sequencing lives, or what makes large sequencing projects successful. <i>GigaScience</i> , 2017, 6, 1-6.	6.4	4
48	Automatic analysis and 3D-modelling of Hi-C data using TADbit reveals structural features of the fly chromatin colors. <i>PLoS Computational Biology</i> , 2017, 13, e1005665.	3.2	252
49	Biological insertion of computationally designed short transmembrane segments. <i>Scientific Reports</i> , 2016, 6, 23397.	3.3	18
50	Should network biology be used for drug discovery?. <i>Expert Opinion on Drug Discovery</i> , 2016, 11, 1135-1137.	5.0	4
51	Chromatin and RNA Maps Reveal Regulatory Long Noncoding RNAs in Mouse. <i>Molecular and Cellular Biology</i> , 2016, 36, 809-819.	2.3	75
52	Aberrant Expression of the SOX11 Oncogene in Mantle Cell Lymphoma Is Associated with Activation and De Novo 3D Looping of a Distant Enhancer Element. <i>Blood</i> , 2016, 128, 459-459.	1.4	0
53	The Conformation of Yeast Chromosome III Is Mating Type Dependent and Controlled by the Recombination Enhancer. <i>Cell Reports</i> , 2015, 13, 1855-1867.	6.4	33
54	Release of 50 new, drug-like compounds and their computational target predictions for open source anti-tubercular drug discovery. <i>PLoS ONE</i> , 2015, 10, e0142293.	2.5	38

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55	On the demultiplexing of chromosome capture conformation data. FEBS Letters, 2015, 589, 3005-3013.	2.8	23
56	Ligand-Target Prediction by Structural Network Biology Using nAnnoLyze. PLoS Computational Biology, 2015, 11, e1004157.	3.2	16
57	Restraint-based three-dimensional modeling of genomes and genomic domains. FEBS Letters, 2015, 589, 2987-2995.	2.8	93
58	Outcome of the First wwPDB Hybrid/Integrative Methods Task Force Workshop. Structure, 2015, 23, 1156-1167.	3.3	159
59	Assessing the limits of restraint-based 3D modeling of genomes and genomic domains. Nucleic Acids Research, 2015, 43, 3465-3477.	14.5	66
60	Software for predicting the 3D structure of RNA molecules. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2015, 5, 56-61.	14.6	5
61	Distinct structural transitions of chromatin topological domains correlate with coordinated hormone-induced gene regulation. Genes and Development, 2014, 28, 2151-2162.	5.9	270
62	Structure-based statistical analysis of transmembrane helices. European Biophysics Journal, 2013, 42, 199-207.	2.2	65
63	Using tertiary structure for the computation of highly accurate multiple RNA alignments with the SARA-Coffee package. Bioinformatics, 2013, 29, 1112-1119.	4.1	20
64	Whole-Genome Sequencing for Rapid Susceptibility Testing of <i>M. tuberculosis</i> . New England Journal of Medicine, 2013, 369, 290-292.	27.0	195
65	Exploring the three-dimensional organization of genomes: interpreting chromatin interaction data. Nature Reviews Genetics, 2013, 14, 390-403.	16.3	963
66	A Novel Family of Soluble Minimal Scaffolds Provides Structural Insight into the Catalytic Domains of Integral Membrane Metallopeptidases. Journal of Biological Chemistry, 2013, 288, 21279-21294.	3.4	35
67	Target Prediction for an Open Access Set of Compounds Active against Mycobacterium tuberculosis. PLoS Computational Biology, 2013, 9, e1003253.	3.2	51
68	Genome structure determination via 3C-based data integration by the Integrative Modeling Platform. Methods, 2012, 58, 300-306.	3.8	83
69	Polar/Ionizable Residues in Transmembrane Segments: Effects on Helix-Helix Packing. PLoS ONE, 2012, 7, e44263.	2.5	24
70	The Three-Dimensional Architecture of a Bacterial Genome and Its Alteration by Genetic Perturbation. Molecular Cell, 2011, 44, 252-264.	9.7	249
71	Membrane protein integration into the endoplasmic reticulum. FEBS Journal, 2011, 278, 3846-3858.	4.7	32
72	The three-dimensional folding of the $\lambda$ -globin gene domain reveals formation of chromatin globules. Nature Structural and Molecular Biology, 2011, 18, 107-114.	8.2	274

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73	Chromatin globules: a common motif of higher order chromosome structure?. <i>Current Opinion in Cell Biology</i> , 2011, 23, 325-331.	5.4	63
74	Structure determination of genomic domains by satisfaction of spatial restraints. <i>Chromosome Research</i> , 2011, 19, 25-35.	2.2	39
75	<i>N</i> -glycosylation efficiency is determined by the distance to the C-terminus and the amino acid preceding an Asn-Ser-Thr sequon. <i>Protein Science</i> , 2011, 20, 179-186.	7.6	57
76	Impact of <i>fgd1</i> and <i>ddn</i> Diversity in Mycobacterium tuberculosis Complex on <i>In Vitro</i> Susceptibility to PA-824. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 5718-5722.	3.2	60
77	All-atom knowledge-based potential for RNA structure prediction and assessment. <i>Bioinformatics</i> , 2011, 27, 1086-1093.	4.1	71
78	Bridging the Resolution Gap in Structural Modeling of 3D Genome Organization. <i>PLoS Computational Biology</i> , 2011, 7, e1002125.	3.2	76
79	Quantifying the relationship between sequence and three-dimensional structure conservation in RNA. <i>BMC Bioinformatics</i> , 2010, 11, 322.	2.6	38
80	SARA: a server for function annotation of RNA structures. <i>Nucleic Acids Research</i> , 2009, 37, W260-W265.	14.5	33
81	MODBASE, a database of annotated comparative protein structure models and associated resources. <i>Nucleic Acids Research</i> , 2009, 37, D347-D354.	14.5	154
82	ModLink+: improving fold recognition by using protein-protein interactions. <i>Bioinformatics</i> , 2009, 25, 1506-1512.	4.1	14
83	A Kernel for Open Source Drug Discovery in Tropical Diseases. <i>PLoS Neglected Tropical Diseases</i> , 2009, 3, e418.	3.0	23
84	Alignment of multiple protein structures based on sequence and structure features. <i>Protein Engineering, Design and Selection</i> , 2009, 22, 569-574.	2.1	82
85	A kernel for the Tropical Disease Initiative. <i>Nature Biotechnology</i> , 2009, 27, 320-321.	17.5	7
86	Use of estimated evolutionary strength at the codon level improves the prediction of disease-related protein mutations in humans. <i>Human Mutation</i> , 2008, 29, 198-204.	2.5	37
87	Prediction of enzyme function by combining sequence similarity and protein interactions. <i>BMC Bioinformatics</i> , 2008, 9, 249.	2.6	27
88	Evolutionary potentials: structure specific knowledge-based potentials exploiting the evolutionary record of sequence homologs. <i>Genome Biology</i> , 2008, 9, R68.	9.6	7
89	RNA structure alignment by a unit-vector approach. <i>Bioinformatics</i> , 2008, 24, i112-i118.	4.1	46
90	Characterization of Protein Hubs by Inferring Interacting Motifs from Protein Interactions. <i>PLoS Computational Biology</i> , 2007, 3, e178.	3.2	51

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91	DBAli tools: mining the protein structure space. <i>Nucleic Acids Research</i> , 2007, 35, W393-W397.	14.5	25
92	Protein translocation into peroxisomes by ring-shaped import receptors. <i>FEBS Letters</i> , 2007, 581, 4795-4802.	2.8	22
93	The AnnoLite and AnnoLyze programs for comparative annotation of protein structures. <i>BMC Bioinformatics</i> , 2007, 8, S4.	2.6	36
94	Comparative Protein Structure Modeling Using MODELLER. <i>Current Protocols in Protein Science</i> , 2007, 50, Unit 2.9.	2.8	1,056
95	Variable gap penalty for protein sequence-structure alignment. <i>Protein Engineering, Design and Selection</i> , 2006, 19, 129-133.	2.1	58
96	Comparative Protein Structure Modeling Using Modeller. <i>Current Protocols in Bioinformatics</i> , 2006, 15, Unit-5.6.	25.8	2,858
97	Refinement of Protein Structures by Iterative Comparative Modeling and CryoEM Density Fitting. <i>Journal of Molecular Biology</i> , 2006, 357, 1655-1668.	4.2	104
98	Open Source Research - the Power of Us. <i>Australian Journal of Chemistry</i> , 2006, 59, 291.	0.9	21
99	Accuracy of sequence alignment and fold assessment using reduced amino acid alphabets. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 63, 986-995.	2.6	44
100	A composite score for predicting errors in protein structure models. <i>Protein Science</i> , 2006, 15, 1653-1666.	7.6	160
101	Localization of binding sites in protein structures by optimization of a composite scoring function. <i>Protein Science</i> , 2006, 15, 2366-2380.	7.6	21
102	MODBASE: a database of annotated comparative protein structure models and associated resources. <i>Nucleic Acids Research</i> , 2006, 34, D291-D295.	14.5	265
103	Comparative Protein Structure Modeling. , 2005, , 831-860.		15
104	The C-type lectin fold as an evolutionary solution for massive sequence variation. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 886-892.	8.2	92
105	Detecting remotely related proteins by their interactions and sequence similarity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7151-7156.	7.1	26
106	Structure-Based Assessment of Missense Mutations in Human BRCA1. <i>Cancer Research</i> , 2004, 64, 3790-3797.	0.9	103
107	Alignment of protein sequences by their profiles. <i>Protein Science</i> , 2004, 13, 1071-1087.	7.6	184
108	MODBASE, a database of annotated comparative protein structure models, and associated resources. <i>Nucleic Acids Research</i> , 2004, 32, 217D-222.	14.5	256

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109	Modeling Protein Structure from its Sequence. <i>Current Protocols in Bioinformatics</i> , 2003, 3, 5.1.1.	25.8	6
110	Tools for comparative protein structure modeling and analysis. <i>Nucleic Acids Research</i> , 2003, 31, 3375-3380.	14.5	406
111	EVA: evaluation of protein structure prediction servers. <i>Nucleic Acids Research</i> , 2003, 31, 3311-3315.	14.5	154
112	ModView, visualization of multiple protein sequences and structures. <i>Bioinformatics</i> , 2003, 19, 165-166.	4.1	18
113	Use of Single Point Mutations in Domain I of $^{125}$ I-Glycoprotein I to Determine Fine Antigenic Specificity of Antiphospholipid Autoantibodies. <i>Journal of Immunology</i> , 2002, 169, 7097-7103.	0.8	137
114	Comparative Protein Structure Prediction. <i>Current Protocols in Protein Science</i> , 2002, 28, 2.9.1-2.9.22.	2.8	6
115	Reply to Moulton et al.. <i>Structure</i> , 2002, 10, 292-293.	3.3	0
116	Reliability of Assessment of Protein Structure Prediction Methods. <i>Structure</i> , 2002, 10, 435-440.	3.3	95
117	Classification of protein disulphide-bridge topologies. <i>Journal of Computer-Aided Molecular Design</i> , 2001, 15, 477-487.	2.9	16
118	EVA: continuous automatic evaluation of protein structure prediction servers. <i>Bioinformatics</i> , 2001, 17, 1242-1243.	4.1	187
119	DBAli: a database of protein structure alignments. <i>Bioinformatics</i> , 2001, 17, 746-747.	4.1	49
120	Structures of scrambled disulfide forms of the potato carboxypeptidase inhibitor predicted by molecular dynamics simulations with constraints. <i>Proteins: Structure, Function and Bioinformatics</i> , 2000, 40, 482-493.	2.6	7
121	Protein structure modeling for structural genomics. <i>Nature Structural Biology</i> , 2000, 7, 986-990.	9.7	199
122	Refinement of modelled structures by knowledge-based energy profiles and secondary structure prediction: application to the human procarboxypeptidase A2. <i>Journal of Computer-Aided Molecular Design</i> , 2000, 14, 83-92.	2.9	8
123	Comparative Protein Structure Modeling of Genes and Genomes. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2000, 29, 291-325.	18.3	2,811
124	ASAP: analysis of peptide composition. <i>Bioinformatics</i> , 2000, 16, 1153-1154.	4.1	1
125	Vanilloid Receptor-Related Osmotically Activated Channel (VR-OAC), a Candidate Vertebrate Osmoreceptor. <i>Cell</i> , 2000, 103, 525-535.	28.9	1,237
126	Statistical Analysis of the Loop-Geometry on a Non-Redundant Database of Proteins. <i>Journal of Molecular Modeling</i> , 1998, 4, 347-354.	1.8	4



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127	Protein similarities beyond disulphide bridge topology. Journal of Molecular Biology, 1998, 284, 541-548.	4.2	34
128	Effects of counter-ions and volume on the simulated dynamics of solvated proteins. Application to the activation domain of procarboxypeptidase B. Protein Engineering, Design and Selection, 1998, 11, 881-890.	2.1	4
129	Specific Contributions of Cohesin-SA1 and Cohesin-SA2 to TADs and Polycomb Domains in Embryonic Stem Cells. SSRN Electronic Journal, 0, , .	0.4	0