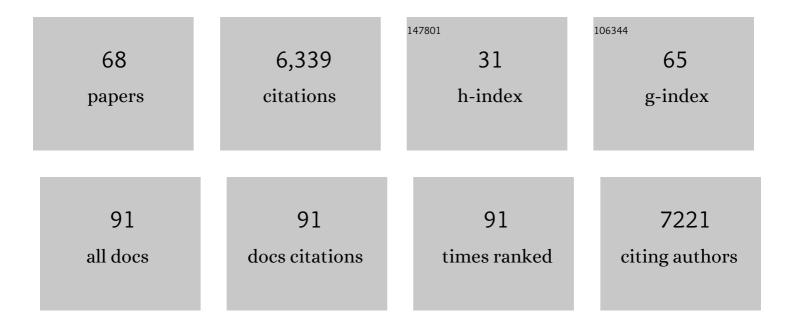
List of Publications by Year in descending order

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ROMAIN KOSZUL

#	Article	lF	CITATIONS
1	Genome evolution in yeasts. Nature, 2004, 430, 35-44.	27.8	1,498
2	Total Synthesis of a Functional Designer Eukaryotic Chromosome. Science, 2014, 344, 55-58.	12.6	486
3	Genomic evidence for ameiotic evolution in the bdelloid rotifer Adineta vaga. Nature, 2013, 500, 453-457.	27.8	352
4	Multiscale Structuring of the E.Âcoli Chromosome by Nucleoid-Associated and Condensin Proteins. Cell, 2018, 172, 771-783.e18.	28.9	285
5	Condensin- and Replication-Mediated Bacterial Chromosome Folding and Origin Condensation Revealed by Hi-C and Super-resolution Imaging. Molecular Cell, 2015, 59, 588-602.	9.7	245
6	Eucaryotic genome evolution through the spontaneous duplication of large chromosomal segments. EMBO Journal, 2004, 23, 234-243.	7.8	192
7	Normalization of a chromosomal contact map. BMC Genomics, 2012, 13, 436.	2.8	190
8	Deep functional analysis of synII, a 770-kilobase synthetic yeast chromosome. Science, 2017, 355, .	12.6	163
9	Segmental Duplications Arise from Pol32-Dependent Repair of Broken Forks through Two Alternative Replication-Based Mechanisms. PLoS Genetics, 2008, 4, e1000175.	3.5	161
10	Dynamic chromosome movements during meiosis: a way to eliminate unwanted connections?. Trends in Cell Biology, 2009, 19, 716-724.	7.9	158
11	Metagenomic chromosome conformation capture (meta3C) unveils the diversity of chromosome organization in microorganisms. ELife, 2014, 3, e03318.	6.0	154
12	A Predictive Computational Model of the Dynamic 3D Interphase Yeast Nucleus. Current Biology, 2012, 22, 1881-1890.	3.9	149
13	High-quality genome (re)assembly using chromosomal contact data. Nature Communications, 2014, 5, 5695.	12.8	142
14	Cohesins and condensins orchestrate the 4D dynamics of yeast chromosomes during the cellÂcycle. EMBO Journal, 2017, 36, 2684-2697.	7.8	137
15	A checkpoint control orchestrates the replication of the two chromosomes of <i>Vibrio cholerae</i> . Science Advances, 2016, 2, e1501914.	10.3	122
16	Csm4, in Collaboration with Ndj1, Mediates Telomere-Led Chromosome Dynamics and Recombination during Yeast Meiosis. PLoS Genetics, 2008, 4, e1000188.	3.5	117
17	3D organization of synthetic and scrambled chromosomes. Science, 2017, 355, .	12.6	116
18	Scaffolding bacterial genomes and probing host-virus interactions in gut microbiome by proximity ligation (chromosome capture) assay. Science Advances, 2017, 3, e1602105.	10.3	110

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19	The 3D folding of metazoan genomes correlates with the association of similar repetitive elements. Nucleic Acids Research, 2016, 44, 245-255.	14.5	90
20	Dynamic Processing of Displacement Loops during Recombinational DNA Repair. Molecular Cell, 2019, 73, 1255-1266.e4.	9.7	84
21	Regulation of Cohesin-Mediated Chromosome Folding by Eco1 and Other Partners. Molecular Cell, 2020, 77, 1279-1293.e4.	9.7	80
22	Spatial reorganization of telomeres in long-lived quiescent cells. Genome Biology, 2015, 16, 206.	8.8	75
23	Evidence for actin dual role in regulating chromosome organization and dynamics in yeast. Journal of Cell Science, 2016, 129, 681-92.	2.0	73
24	The complete mitochondrial genome sequence of the pathogenic yeastCandida(Torulopsis)glabrata. FEBS Letters, 2003, 534, 39-48.	2.8	68
25	Computer vision for pattern detection in chromosome contact maps. Nature Communications, 2020, 11, 5795.	12.8	64
26	Chromosome organization by a conserved condensin-ParB system in the actinobacterium Corynebacterium glutamicum. Nature Communications, 2020, 11, 1485.	12.8	64
27	Characterizing meiotic chromosomes' structure and pairing using a designer sequence optimized for Hi . Molecular Systems Biology, 2018, 14, e8293.	7.2	63
28	MetaHiC phage-bacteria infection network reveals active cycling phages of the healthy human gut. ELife, 2021, 10, .	6.0	57
29	Tridimensional infiltration of DNA viruses into the host genome shows preferential contact with active chromatin. Nature Communications, 2018, 9, 4268.	12.8	51
30	Stability of Large Segmental Duplications in the Yeast Genome. Genetics, 2006, 172, 2211-2222.	2.9	50
31	FACT mediates cohesin function on chromatin. Nature Structural and Molecular Biology, 2019, 26, 970-979.	8.2	43
32	Cohesin regulates homology search during recombinational DNA repair. Nature Cell Biology, 2021, 23, 1176-1186.	10.3	43
33	Euryarchaeal genomes are folded into SMC-dependent loops and domains, but lack transcription-mediated compartmentalization. Molecular Cell, 2021, 81, 459-472.e10.	9.7	42
34	Contact genomics: scaffolding and phasing (meta)genomes using chromosome 3D physical signatures. FEBS Letters, 2015, 589, 2966-2974.	2.8	41
35	instaGRAAL: chromosome-level quality scaffolding of genomes using a proximity ligation-based scaffolder. Genome Biology, 2020, 21, 148.	8.8	38
36	Filling annotation gaps in yeast genomes using genome-wide contact maps. Bioinformatics, 2014, 30, 2105-2113.	4.1	36

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37	A prominent role for segmental duplications in modeling Eukaryotic genomes. Comptes Rendus - Biologies, 2009, 332, 254-266.	0.2	31
38	Proximity ligation scaffolding and comparison of two Trichoderma reesei strains genomes. Biotechnology for Biofuels, 2017, 10, 151.	6.2	31
39	Smc3 acetylation, Pds5 and Scc2 control the translocase activity that establishes cohesin-dependent chromatin loops. Nature Structural and Molecular Biology, 2022, 29, 575-585.	8.2	31
40	Chromosome-level genome assembly reveals homologous chromosomes and recombination in asexual rotifer <i>Adineta vaga</i> . Science Advances, 2021, 7, eabg4216.	10.3	30
41	Chromosomal scale assembly of parasitic wasp genome reveals symbiotic virus colonization. Communications Biology, 2021, 4, 104.	4.4	27
42	Condensin-Mediated Chromosome Folding and Internal Telomeres Drive Dicentric Severing by Cytokinesis. Molecular Cell, 2019, 75, 131-144.e3.	9.7	24
43	Metagenome Analysis Exploiting High-Throughput Chromosome Conformation Capture (3C) Data. Trends in Genetics, 2015, 31, 673-682.	6.7	22
44	MetaTOR: A Computational Pipeline to Recover High-Quality Metagenomic Bins From Mammalian Gut Proximity-Ligation (meta3C) Libraries. Frontiers in Genetics, 2019, 10, 753.	2.3	22
45	Serpentine: a flexible 2D binning method for differential Hi-C analysis. Bioinformatics, 2020, 36, 3645-3651.	4.1	19
46	Purification of G <sub>1</sub> daughter cells from different <i>Saccharomycetes</i> species through an optimized centrifugal elutriation procedure. Yeast, 2014, 31, 159-166.	1.7	18
47	Extended sister-chromosome catenation leads to massive reorganization of the <i>E. coli</i> genome. Nucleic Acids Research, 2022, 50, 2635-2650.	14.5	18
48	Genome-wide replication landscape of Candida glabrata. BMC Biology, 2015, 13, 69.	3.8	16
49	Sir3 mediates long-range chromosome interactions in budding yeast. Genome Research, 2021, 31, 411-425.	5.5	16
50	Generation and Analysis of Chromosomal Contact Maps of Yeast Species. Methods in Molecular Biology, 2016, 1361, 227-245.	0.9	16
51	A Proximity Ligation-Based Method for Quantitative Measurement of D-Loop Extension in S. cerevisiae. Methods in Enzymology, 2018, 601, 27-44.	1.0	15
52	The Centenary of Janssens's Chiasmatype Theory. Genetics, 2012, 191, 309-317.	2.9	14
53	Kinetic Signature of Cooperativity in the Irreversible Collapse of a Polymer. Physical Review Letters, 2018, 121, 057801.	7.8	14
54	La Theorie de la Chiasmatypie. Genetics, 2012, 191, 319-346.	2.9	10

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55	Generation of a Metagenomics Proximity Ligation 3C Library of a Mammalian Gut Microbiota. Methods in Enzymology, 2018, 612, 183-195.	1.0	7
56	Generation of gene-level resolution chromosome contact maps in bacteria and archaea. STAR Protocols, 2021, 2, 100512.	1.2	7
57	Normalization of Chromosome Contact Maps: Matrix Balancing and Visualization. Methods in Molecular Biology, 2022, 2301, 1-15.	0.9	6
58	Real-Time Imaging of Meiotic Chromosomes in Saccharomyces cerevisiae. Methods in Molecular Biology, 2009, 558, 81-89.	0.9	6
59	Crosstalk between Hepatitis B Virus and the 3D Genome Structure. Viruses, 2022, 14, 445.	3.3	6
60	Beyond the bounds of evolution: Synthetic chromosomes… How and what for?. Comptes Rendus - Biologies, 2016, 339, 324-328.	0.2	5
61	Chromosome-level genome assembly and annotation of two lineages of the ant Cataglyphis hispanica: stepping stones towards genomic studies of hybridogenesis and thermal adaptation in desert ants. , 0, 2, .		5
62	Filling the gap: Micro-C accesses the nucleosomal fiber at 100–1000 bp resolution. Genome Biology, 2015, 16, 169.	8.8	4
63	Closed and High-Quality Bacterial Genome Sequences of the Oligo-Mouse-Microbiota Community. Microbiology Resource Announcements, 2021, 10, .	0.6	4
64	A deep dive into genome assemblies of non-vertebrate animals. , 0, 2, .		4
65	Generation and Analysis of Chromosomal Contact Maps of Bacteria. Methods in Molecular Biology, 2017, 1624, 75-84.	0.9	3
66	Metagenomes Binning Using Proximity-Ligation Data. Methods in Molecular Biology, 2022, 2301, 163-181.	0.9	3
67	Functional Partition of a Bacterial Chromosome Through the Interplay of Nucleoid Associated Proteins and Condensin. SSRN Electronic Journal, 0, , .	0.4	1
68	Perspectives on Chromosome Organization. Journal of Molecular Biology, 2020, 432, 635-637.	4.2	0