

Giacomo Cavalli

List of Publications by Year in descending order

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129
papers

17,897
citations

23567

58
h-index

16183

124
g-index

152
all docs

152
docs citations

152
times ranked

16506
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional Folding and Functional Organization Principles of the Drosophila Genome. <i>Cell</i> , 2012, 148, 458-472.	28.9	1,728
2	Genome Regulation by Polycomb and Trithorax Proteins. <i>Cell</i> , 2007, 128, 735-745.	28.9	1,258
3	Multiscale 3D Genome Rewiring during Mouse Neural Development. <i>Cell</i> , 2017, 171, 557-572.e24.	28.9	1,060
4	Advances in epigenetics link genetics to the environment and disease. <i>Nature</i> , 2019, 571, 489-499.	27.8	863
5	Genome Regulation by Polycomb and Trithorax: 70 Years and Counting. <i>Cell</i> , 2017, 171, 34-57.	28.9	842
6	Organization and function of the 3D genome. <i>Nature Reviews Genetics</i> , 2016, 17, 661-678.	16.3	821
7	Dynamic genome architecture in the nuclear space: regulation of gene expression in three dimensions. <i>Nature Reviews Genetics</i> , 2007, 8, 104-115.	16.3	721
8	Trithorax group proteins: switching genes on and keeping them active. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 799-814.	37.0	429
9	Principles of genome folding into topologically associating domains. <i>Science Advances</i> , 2019, 5, eaaw1668.	10.3	415
10	The Role of Chromosome Domains in Shaping the Functional Genome. <i>Cell</i> , 2015, 160, 1049-1059.	28.9	391
11	Functional implications of genome topology. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 290-299.	8.2	382
12	Polycomb-Dependent Regulatory Contacts between Distant Hox Loci in Drosophila. <i>Cell</i> , 2011, 144, 214-226.	28.9	374
13	Recruitment of Polycomb group complexes and their role in the dynamic regulation of cell fate choice. <i>Development (Cambridge)</i> , 2009, 136, 3531-3542.	2.5	370
14	Modeling epigenome folding: formation and dynamics of topologically associated chromatin domains. <i>Nucleic Acids Research</i> , 2014, 42, 9553-9561.	14.5	362
15	The Drosophila Fab-7 Chromosomal Element Conveys Epigenetic Inheritance during Mitosis and Meiosis. <i>Cell</i> , 1998, 93, 505-518.	28.9	350
16	RNAi Components Are Required for Nuclear Clustering of Polycomb Group Response Elements. <i>Cell</i> , 2006, 124, 957-971.	28.9	288
17	Functional Anatomy of Polycomb and Trithorax Chromatin Landscapes in Drosophila Embryos. <i>PLoS Biology</i> , 2009, 7, e1000013.	5.6	281
18	Epigenetic Inheritance of Active Chromatin After Removal of the Main Transactivator. <i>Science</i> , 1999, 286, 955-958.	12.6	238

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19	TADs are 3D structural units of higher-order chromosome organization in <i>Drosophila</i> . <i>Science Advances</i> , 2018, 4, eaar8082.	10.3	237
20	Co-localization of Polycomb protein and GAGA factor on regulatory elements responsible for the maintenance of homeotic gene expression. <i>EMBO Journal</i> , 1997, 16, 3621-3632.	7.8	230
21	Inheritance of Polycomb-dependent chromosomal interactions in <i>Drosophila</i> . <i>Genes and Development</i> , 2003, 17, 2406-2420.	5.9	221
22	Chromosomal Distribution of PcG Proteins during <i>Drosophila</i> Development. <i>PLoS Biology</i> , 2006, 4, e170.	5.6	218
23	Polycomb-Dependent Chromatin Looping Contributes to Gene Silencing during <i>Drosophila</i> Development. <i>Molecular Cell</i> , 2018, 71, 73-88.e5.	9.7	208
24	Understanding 3D genome organization by multidisciplinary methods. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 511-528.	37.0	185
25	Microscopy-Based Chromosome Conformation Capture Enables Simultaneous Visualization of Genome Organization and Transcription in Intact Organisms. <i>Molecular Cell</i> , 2019, 74, 212-222.e5.	9.7	183
26	Molecular mechanisms of transgenerational epigenetic inheritance. <i>Nature Reviews Genetics</i> , 2022, 23, 325-341.	16.3	182
27	Chromo-domain proteins: linking chromatin structure to epigenetic regulation. <i>Current Opinion in Cell Biology</i> , 1998, 10, 354-360.	5.4	168
28	Dissection of a Natural RNA Silencing Process in the <i>Drosophila melanogaster</i> Germ Line. <i>Molecular and Cellular Biology</i> , 2004, 24, 6742-6750.	2.3	166
29	From genetics to epigenetics: the tale of Polycomb group and trithorax group genes. <i>Chromosome Research</i> , 2006, 14, 363-375.	2.2	157
30	Chromosome conformation capture technologies and their impact in understanding genome function. <i>Chromosoma</i> , 2017, 126, 33-44.	2.2	143
31	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
32	Recruitment of <i>Drosophila</i> Polycomb group proteins to chromatin by DSP1. <i>Nature</i> , 2005, 434, 533-538.	27.8	136
33	Regulation of single-cell genome organization into TADs and chromatin nanodomains. <i>Nature Genetics</i> , 2020, 52, 1151-1157.	21.4	127
34	Genomic interactions: Chromatin loops and gene meeting points in transcriptional regulation. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 849-855.	5.0	123
35	Cellular memory and dynamic regulation of polycomb group proteins. <i>Current Opinion in Cell Biology</i> , 2006, 18, 275-283.	5.4	122
36	Polyhomoetic has a tumor suppressor activity mediated by repression of Notch signaling. <i>Nature Genetics</i> , 2009, 41, 1076-1082.	21.4	112

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37	Polycomb group proteins: repression in 3D. Trends in Genetics, 2011, 27, 454-464.	6.7	112
38	Progressive Polycomb Assembly on H3K27me3 Compartments Generates Polycomb Bodies with Developmentally Regulated Motion. PLoS Genetics, 2012, 8, e1002465.	3.5	110
39	LifeTime and improving European healthcare through cell-based interceptive medicine. Nature, 2020, 587, 377-386.	27.8	108
40	4D Genome Rewiring during Oncogene-Induced and Replicative Senescence. Molecular Cell, 2020, 78, 522-538.e9.	9.7	107
41	A chromatin insulator driving three-dimensional Polycomb response element (PRE) contacts and Polycomb association with the chromatin fiber. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2294-2299.	7.1	104
42	Chromatin transitions during activation and repression of galactose-regulated genes in yeast.. EMBO Journal, 1993, 12, 4603-4613.	7.8	98
43	Chromatin-Driven Behavior of Topologically Associating Domains. Journal of Molecular Biology, 2015, 427, 608-625.	4.2	95
44	Regulation of Genome Architecture and Function by Polycomb Proteins. Trends in Cell Biology, 2016, 26, 511-525.	7.9	91
45	The role of Polycomb Group Proteins in Cell Cycle Regulation During Development. Cell Cycle, 2006, 5, 1189-1197.	2.6	89
46	Polycomb silencing: from linear chromatin domains to 3D chromosome folding. Current Opinion in Genetics and Development, 2014, 25, 30-37.	3.3	84
47	Chromatin inheritance upon Zeste-mediated Brahma recruitment at a minimal cellular memory module. EMBO Journal, 2004, 23, 857-868.	7.8	83
48	Stable Polycomb-dependent transgenerational inheritance of chromatin states in Drosophila. Nature Genetics, 2017, 49, 876-886.	21.4	81
49	PRE-Mediated Bypass of Two Su(Hw) Insulators Targets PcG Proteins to a Downstream Promoter. Developmental Cell, 2006, 11, 117-124.	7.0	77
50	EZH2 in normal hematopoiesis and hematological malignancies. Oncotarget, 2016, 7, 2284-2296.	1.8	77
51	The MYST Domain Acetyltransferase Chameau Functions in Epigenetic Mechanisms of Transcriptional Repression. Current Biology, 2002, 12, 762-766.	3.9	73
52	Protein-DNA interaction mapping using genomic tiling path microarrays in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9428-9433.	7.1	73
53	Interaction between the GAGA factor and Mod(mdg4) proteins promotes insulator bypass in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14806-14811.	7.1	73
54	Widespread activation of developmental gene expression characterized by PRC1-dependent chromatin looping. Science Advances, 2020, 6, eaax4001.	10.3	72

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55	Chromosome kissing. <i>Current Opinion in Genetics and Development</i> , 2007, 17, 443-450.	3.3	70
56	Coordinate redeployment of PRC1 proteins suppresses tumor formation during <i>Drosophila</i> development. <i>Nature Genetics</i> , 2016, 48, 1436-1442.	21.4	70
57	Cooperativity, Specificity, and Evolutionary Stability of Polycomb Targeting in <i>Drosophila</i> . <i>Cell Reports</i> , 2014, 9, 219-233.	6.4	69
58	In vivo formaldehyde cross-linking: it is time for black box analysis. <i>Briefings in Functional Genomics</i> , 2015, 14, 163-165.	2.7	64
59	Combinatorial epigenetics, "junk DNA", and the evolution of complex organisms. <i>Gene</i> , 2007, 390, 232-242.	2.2	62
60	Chromosomal domains: epigenetic contexts and functional implications of genomic compartmentalization. <i>Current Opinion in Genetics and Development</i> , 2013, 23, 197-203.	3.3	61
61	Three-Dimensional Genome Organization and Function in <i>Drosophila</i> . <i>Genetics</i> , 2017, 205, 5-24.	2.9	61
62	Mapping the Distribution of Chromatin Proteins by ChIP on Chip. <i>Methods in Enzymology</i> , 2006, 410, 316-341.	1.0	56
63	Identification and characterization of polyhomeotic PREs and TREs. <i>Developmental Biology</i> , 2003, 261, 426-442.	2.0	55
64	Polycomb group-dependent Cyclin A repression in <i>Drosophila</i> . <i>Genes and Development</i> , 2006, 20, 501-513.	5.9	52
65	Mechanisms of Polycomb group protein function in cancer. <i>Cell Research</i> , 2022, 32, 231-253.	12.0	52
66	Identification of Regulators of the Three-Dimensional Polycomb Organization by a Microscopy-Based Genome-wide RNAi Screen. <i>Molecular Cell</i> , 2014, 54, 485-499.	9.7	49
67	SNR1 is an essential subunit in a subset of <i>drosophila</i> brm complexes, targeting specific functions during development. <i>Developmental Biology</i> , 2003, 253, 291-308.	2.0	48
68	Loss of PRC1 induces higher-order opening of Hox loci independently of transcription during <i>Drosophila</i> embryogenesis. <i>Nature Communications</i> , 2018, 9, 3898.	12.8	48
69	PRC2 Controls <i>Drosophila</i> Oocyte Cell Fate by Repressing Cell Cycle Genes. <i>Developmental Cell</i> , 2013, 26, 431-439.	7.0	47
70	Challenges and guidelines toward 4D nucleome data and model standards. <i>Nature Genetics</i> , 2018, 50, 1352-1358.	21.4	47
71	Combined Immunostaining and FISH Analysis of Polytene Chromosomes. , 2004, 247, 289-304.		45
72	Developmental determinants in non-communicable chronic diseases and ageing. <i>Thorax</i> , 2015, 70, 595-597.	5.6	45

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73	Engrailed and polyhomeotic maintain posterior cell identity through cubitus-interruptus regulation. <i>Developmental Biology</i> , 2004, 272, 522-535.	2.0	41
74	Cell Fate and Developmental Regulation Dynamics by Polycomb Proteins and 3D Genome Architecture. <i>BioEssays</i> , 2019, 41, e1800222.	2.5	41
75	Polycomb: a paradigm for genome organization from one to three dimensions. <i>Current Opinion in Cell Biology</i> , 2012, 24, 405-414.	5.4	39
76	Chromosome topology guides the <i>Drosophila</i> Dosage Compensation Complex for target gene activation. <i>EMBO Reports</i> , 2017, 18, 1854-1868.	4.5	39
77	Higher-Order Chromosomal Structures Mediate Genome Function. <i>Journal of Molecular Biology</i> , 2020, 432, 676-681.	4.2	37
78	Inactivation of topoisomerases affects transcription-dependent chromatin transitions in rDNA but not in a gene transcribed by RNA polymerase II. <i>EMBO Journal</i> , 1996, 15, 590-597.	7.8	35
79	Technical Review: A Hitchhiker's Guide to Chromosome Conformation Capture. <i>Methods in Molecular Biology</i> , 2018, 1675, 233-246.	0.9	34
80	The multiscale effects of polycomb mechanisms on 3D chromatin folding. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2019, 54, 399-417.	5.2	33
81	EZH2 is overexpressed in transitional preplasmablasts and is involved in human plasma cell differentiation. <i>Leukemia</i> , 2019, 33, 2047-2060.	7.2	33
82	PRC2 targeting is a therapeutic strategy for EZ score defined high-risk multiple myeloma patients and overcome resistance to IMiDs. <i>Clinical Epigenetics</i> , 2018, 10, 121.	4.1	32
83	Pericentromeric heterochromatin is hierarchically organized and spatially contacts H3K9me2 islands in euchromatin. <i>PLoS Genetics</i> , 2020, 16, e1008673.	3.5	32
84	MACVIA-LR, Reference site of the European Innovation Partnership on Active and Healthy Ageing (EIP on) Tj ETQq0 0.0 rgBT /Qoverlock 10	2.8	29
85	SETDB1/NSD-dependent H3K9me3/H3K36me3 dual heterochromatin maintains gene expression profiles by bookmarking poised enhancers. <i>Molecular Cell</i> , 2022, 82, 816-832.e12.	9.7	29
86	Global chromatin conformation differences in the <i>Drosophila</i> dosage compensated chromosome X. <i>Nature Communications</i> , 2019, 10, 5355.	12.8	28
87	Polycomb Domain Formation Depends on Short and Long Distance Regulatory Cues. <i>PLoS ONE</i> , 2013, 8, e56531.	2.5	26
88	Chromatin as a eukaryotic template of genetic information. <i>Current Opinion in Cell Biology</i> , 2002, 14, 269-278.	5.4	25
89	Rolling ES Cells Down the Waddington Landscape with Oct4 and Sox2. <i>Cell</i> , 2011, 145, 815-817.	28.9	22
90	Heritable Chromatin States Induced by the Polycomb and Trithorax Group Genes. <i>Novartis Foundation Symposium</i> , 1998, 214, 51-66.	1.1	22

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91	Chapter 2 Polycomb Group Proteins and Long-Range Gene Regulation. <i>Advances in Genetics</i> , 2008, 61, 45-66.	1.8	20
92	The Epigenome Network of Excellence. <i>PLoS Biology</i> , 2005, 3, e177.	5.6	18
93	EZH2 Goes Solo. <i>Science</i> , 2012, 338, 1430-1431.	12.6	17
94	Topological Organization of <i>Drosophila</i> Hox Genes Using DNA Fluorescent In Situ Hybridization. <i>Methods in Molecular Biology</i> , 2014, 1196, 103-120.	0.9	17
95	Epigenetic Inheritance of Chromatin States Mediated by Polycomb and Trithorax Group Proteins in <i>Drosophila</i> . , 2005, 38, 31-63.		15
96	Histone H3 Serine 28 Is Essential for Efficient Polycomb-Mediated Gene Repression in <i>Drosophila</i> . <i>Cell Reports</i> , 2015, 11, 1437-1445.	6.4	15
97	Clinical Correlations of Polycomb Repressive Complex 2 in Different Tumor Types. <i>Cancers</i> , 2021, 13, 3155.	3.7	14
98	Identification of the peroxidation product hydroxystearic acid in Lewis lung carcinoma cells. <i>Biochemical and Biophysical Research Communications</i> , 1991, 178, 1260-1265.	2.1	12
99	The 3D Genome Shapes Up For Pluripotency. <i>Cell Stem Cell</i> , 2013, 13, 3-4.	11.1	11
100	Distinct polymer physics principles govern chromatin dynamics in mouse and <i>Drosophila</i> topological domains. <i>BMC Genomics</i> , 2015, 16, 607.	2.8	11
101	Polycomb Controls Gliogenesis by Regulating the Transient Expression of the Gcm/Glide Fate Determinant. <i>PLoS Genetics</i> , 2012, 8, e1003159.	3.5	10
102	Comprehensive characterization of the epigenetic landscape in Multiple Myeloma. <i>Theranostics</i> , 2022, 12, 1715-1729.	10.0	10
103	Chromatin Folding: From Linear Chromosomes to the 4D Nucleus. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2010, 75, 461-473.	1.1	9
104	The DUBle Life of Polycomb Complexes. <i>Developmental Cell</i> , 2010, 18, 878-880.	7.0	9
105	Role of Polycomb Complexes in Normal and Malignant Plasma Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8047.	4.1	9
106	Chromatin Immunoprecipitation Experiments from Whole <i>Drosophila</i> Embryos or Larval Imaginal Discs. <i>Bio-protocol</i> , 2017, 7, e2327.	0.4	9
107	Targeting EZH2 in Multiple Myeloma Could be Promising for a Subgroup of MM Patients in Combination with IMiDs. <i>Blood</i> , 2016, 128, 311-311.	1.4	8
108	MACVIA-LR (FIGHTING CHRONIC DISEASES FOR ACTIVE AND HEALTHY AGEING IN LANGUEDOC-ROUSSILLON): A SUCCESS STORY OF THE EUROPEAN INNOVATION PARTNERSHIP ON ACTIVE AND HEALTHY AGEING. <i>Journal of Frailty & Aging, the</i> , 2016, 5, 1-9.	1.3	8

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109	Chromosomes: now in 3D!. Nature Reviews Molecular Cell Biology, 2014, 15, 6-6.	37.0	7
110	From Linear Genes to Epigenetic Inheritance of Three-dimensional Epigenomes. Journal of Molecular Biology, 2011, 409, 54-61.	4.2	5
111	A shared ancient enhancer element differentially regulates the bric-a-brac tandem gene duplicates in the developing Drosophila leg. PLoS Genetics, 2022, 18, e1010083.	3.5	5
112	Uncovering a tumor-suppressor function for Drosophila Polycomb group genes. Cell Cycle, 2010, 9, 215-216.	2.6	4
113	A RING to Rule Them All: RING1 as Silencer and Activator. Developmental Cell, 2014, 28, 1-2.	7.0	4
114	Higher-Order Chromatin Organization Using 3D DNA Fluorescent In Situ Hybridization. Methods in Molecular Biology, 2021, 2157, 221-237.	0.9	4
115	Enhancer of zeste acts as a major developmental regulator of <i>Ciona intestinalis</i> embryogenesis. Biology Open, 2015, 4, 1109-1121.	1.2	3
116	HiCmapTools: a tool to access HiC contact maps. BMC Bioinformatics, 2022, 23, 64.	2.6	3
117	PRC1 proteins orchestrate three-dimensional genome architecture. Nature Genetics, 2015, 47, 1105-1106.	21.4	2
118	Polycomb Function and Nuclear Organization. , 2017, , 131-163.		2
119	Microscopy-Based Chromosome Conformation Capture Enables Simultaneous Visualization of Genome Organization and Transcription in Intact Organisms. SSRN Electronic Journal, 0, , .	0.4	2
120	MODELLING OF POLYCOMB-DEPENDENT CHROMOSOMAL INTERACTIONS INVOLVED IN DROSOPHILA GENE SILENCING. International Journal of Modern Physics C, 2006, 17, 757-767.	1.7	1
121	MODELLING OF POLYCOMB-DEPENDENT CHROMOSOMAL INTERACTIONS INVOLVED IN DROSOPHILA GENE SILENCING. Biophysical Reviews and Letters, 2006, 01, 141-151.	0.8	0
122	Editorial overview. Current Opinion in Cell Biology, 2011, 23, 255-257.	5.4	0
123	Following the Motion of Polycomb Bodies in Living Drosophila Embryos. Methods in Molecular Biology, 2016, 1480, 283-288.	0.9	0
124	Chromosome Conformation Capture on Chip (4C): Data Processing. Methods in Molecular Biology, 2016, 1480, 243-261.	0.9	0
125	Comprehensive Characterization of the Epigenetic Landscape in Multiple Myeloma. Blood, 2020, 136, 2-3.	1.4	0
126	Title is missing!. , 2020, 16, e1008673.		0

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127	Title is missing!. , 2020, 16, e1008673.		0
128	Title is missing!. , 2020, 16, e1008673.		0
129	Title is missing!. , 2020, 16, e1008673.		0