

Philippe Collas

List of Publications by Year in descending order

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116
papers

6,862
citations

57631

44
h-index

66788

78
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122
all docs

122
docs citations

122
times ranked

9220
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation and Transcription Profiling of Purified Uncultured Human Stromal Stem Cells: Alteration of Gene Expression after In Vitro Cell Culture. <i>Molecular Biology of the Cell</i> , 2005, 16, 1131-1141.	0.9	317
2	A rapid micro chromatin immunoprecipitation assay (ChIP). <i>Nature Protocols</i> , 2008, 3, 1032-1045.	5.5	259
3	Induction of Dedifferentiation, Genomewide Transcriptional Programming, and Epigenetic Reprogramming by Extracts of Carcinoma and Embryonic Stem Cells. <i>Molecular Biology of the Cell</i> , 2005, 16, 5719-5735.	0.9	258
4	Reprogramming fibroblasts to express T-cell functions using cell extracts. <i>Nature Biotechnology</i> , 2002, 20, 460-466.	9.4	236
5	The Current State of Chromatin Immunoprecipitation. <i>Molecular Biotechnology</i> , 2010, 45, 87-100.	1.3	224
6	Differentiation of human adipose tissue stem cells using extracts of rat cardiomyocytes. <i>Biochemical and Biophysical Research Communications</i> , 2004, 314, 420-427.	1.0	222
7	Browning of White Adipose Cells by Intermediate Metabolites: An Adaptive Mechanism to Alleviate Redox Pressure. <i>Diabetes</i> , 2014, 63, 3253-3265.	0.3	220
8	Epigenetic Reprogramming of OCT4 and NANOG Regulatory Regions by Embryonal Carcinoma Cell Extract. <i>Molecular Biology of the Cell</i> , 2007, 18, 1543-1553.	0.9	188
9	Prepatterning of Developmental Gene Expression by Modified Histones before Zygotic Genome Activation. <i>Developmental Cell</i> , 2011, 21, 993-1004.	3.1	188
10	Lamina-associated domains: peripheral matters and internal affairs. <i>Genome Biology</i> , 2020, 21, 85.	3.8	162
11	Chrom3D: three-dimensional genome modeling from Hi-C and nuclear lamin-genome contacts. <i>Genome Biology</i> , 2017, 18, 21.	3.8	159
12	Lamin A/C-promoter interactions specify chromatin state-dependent transcription outcomes. <i>Genome Research</i> , 2013, 23, 1580-1589.	2.4	157
13	Recruitment of Protein Phosphatase 1 to the Nuclear Envelope by a-Kinase Anchoring Protein Akap149 Is a Prerequisite for Nuclear Lamina Assembly. <i>Journal of Cell Biology</i> , 2000, 150, 1251-1262.	2.3	155
14	High-resolution analysis of genetic stability of human adipose tissue stem cells cultured to senescence. <i>Journal of Cellular and Molecular Medicine</i> , 2008, 12, 553-563.	1.6	148
15	Q2ChIP, a Quick and Quantitative Chromatin Immunoprecipitation Assay, Unravels Epigenetic Dynamics of Developmentally Regulated Genes in Human Carcinoma Cells. <i>Stem Cells</i> , 2007, 25, 1037-1046.	1.4	137
16	Stable CpG Hypomethylation of Adipogenic Promoters in Freshly Isolated, Cultured, and Differentiated Mesenchymal Stem Cells from Adipose Tissue. <i>Molecular Biology of the Cell</i> , 2006, 17, 3543-3556.	0.9	132
17	Long-range interactions between topologically associating domains shape the four-dimensional genome during differentiation. <i>Nature Genetics</i> , 2019, 51, 835-843.	9.4	114
18	Enriched domain detector: a program for detection of wide genomic enrichment domains robust against local variations. <i>Nucleic Acids Research</i> , 2014, 42, e92-e92.	6.5	111

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19	Dynamics of adipogenic promoter DNA methylation during clonal culture of human adipose stem cells to senescence. <i>BMC Cell Biology</i> , 2007, 8, 18.	3.0	99
20	Mistargeting of B-Type Lamins at the End of Mitosis. <i>Journal of Cell Biology</i> , 2001, 153, 621-626.	2.3	91
21	Histone H3 Modifications Associated With Differentiation and Long-Term Culture of Mesenchymal Adipose Stem Cells. <i>Stem Cells and Development</i> , 2009, 18, 725-736.	1.1	91
22	Histone H3 Lysine 27 Methylation Asymmetry on Developmentally-Regulated Promoters Distinguish the First Two Lineages in Mouse Preimplantation Embryos. <i>PLoS ONE</i> , 2010, 5, e9150.	1.1	91
23	Chop it, ChIP it, check it: the current status of chromatin immunoprecipitation. <i>Frontiers in Bioscience - Landmark</i> , 2008, 13, 929.	3.0	91
24	Cell Extract-Derived Differentiation of Embryonic Stem Cells. <i>Stem Cells</i> , 2005, 23, 712-718.	1.4	87
25	Histone variant H3.3 provides the heterochromatic H3 lysine 9 tri-methylation mark at telomeres. <i>Nucleic Acids Research</i> , 2015, 43, gkv847.	6.5	79
26	¹⁴ ChIP—a rapid micro chromatin immunoprecipitation assay for small cell samples and biopsies. <i>Nucleic Acids Research</i> , 2008, 36, e15.	6.5	78
27	Prepatterning of differentiation-driven nuclear lamin A/C-associated chromatin domains by GlcNAcylated histone H2B. <i>Genome Research</i> , 2015, 25, 1825-1835.	2.4	75
28	Unrestrained ESCRT-III drives micronuclear catastrophe and chromosome fragmentation. <i>Nature Cell Biology</i> , 2020, 22, 856-867.	4.6	75
29	Promoter DNA Methylation Patterns of Differentiated Cells Are Largely Programmed at the Progenitor Stage. <i>Molecular Biology of the Cell</i> , 2010, 21, 2066-2077.	0.9	72
30	Ribosomal DNA copy loss and repeat instability in ATRX-mutated cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4737-4742.	3.3	72
31	A Kinase-Anchoring Protein (Akap95) Recruits Human Chromosome-Associated Protein (Hcap-D2/Eg7) for Chromosome Condensation in Mitotic Extract. <i>Journal of Cell Biology</i> , 2000, 149, 531-536.	2.3	71
32	Distinct features of lamin A-interacting chromatin domains mapped by ChIP-sequencing from sonicated or micrococcal nuclease-digested chromatin. <i>Nucleus</i> , 2015, 6, 30-39.	0.6	71
33	Carcinogen susceptibility is regulated by genome architecture and predicts cancer mutagenesis. <i>EMBO Journal</i> , 2017, 36, 2829-2843.	3.5	71
34	The PML-associated protein DEK regulates the balance of H3.3 loading on chromatin and is important for telomere integrity. <i>Genome Research</i> , 2014, 24, 1584-1594.	2.4	63
35	A lipodystrophy-causing lamin A mutant alters conformation and epigenetic regulation of the anti-adipogenic <i>MIR335</i> locus. <i>Journal of Cell Biology</i> , 2017, 216, 2731-2743.	2.3	62
36	Fish™n ChIPs: Chromatin Immunoprecipitation in the Zebrafish Embryo. <i>Methods in Molecular Biology</i> , 2009, 567, 75-86.	0.4	61

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37	DAXX-dependent supply of soluble (H3.3â€“H4) dimers to PML bodies pending deposition into chromatin. <i>Genome Research</i> , 2013, 23, 440-451.	2.4	61
38	Genome-wide analysis of DNA methylation and gene expression patterns in purified, uncultured human liver cells and activated hepatic stellate cells. <i>Oncotarget</i> , 2015, 6, 26729-26745.	0.8	61
39	CpG Methylation Profiles of Endothelial Cell-Specific Gene Promoter Regions in Adipose Tissue Stem Cells Suggest Limited Differentiation Potential Toward the Endothelial Cell Lineage. <i>Stem Cells</i> , 2007, 25, 852-861.	1.4	60
40	The p.R482W substitution in A-type lamins deregulates SREBP1 activity in Dunnigan-type familial partial lipodystrophy. <i>Human Molecular Genetics</i> , 2015, 24, 2096-2109.	1.4	57
41	Programming differentiation potential in mesenchymal stem cells. <i>Epigenetics</i> , 2010, 5, 476-482.	1.3	56
42	PML protein organizes heterochromatin domains where it regulates histone H3.3 deposition by ATRX/DAXX. <i>Genome Research</i> , 2017, 27, 913-921.	2.4	52
43	Laminopathy-causing lamin A mutations reconfigure lamina-associated domains and local spatial chromatin conformation. <i>Nucleus</i> , 2018, 9, 216-226.	0.6	51
44	Teaching cells new tricks. <i>Trends in Biotechnology</i> , 2003, 21, 354-361.	4.9	50
45	Integrated transcriptomic, phenotypic, and functional study reveals tissue-specific immune properties of mesenchymal stromal cells. <i>Stem Cells</i> , 2020, 38, 146-159.	1.4	50
46	Cohesin facilitates zygotic genome activation in zebrafish. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	47
47	Computational 3D genome modeling using Chrom3D. <i>Nature Protocols</i> , 2018, 13, 1137-1152.	5.5	47
48	Closing the (nuclear) envelope on the genome: How nuclear lamins interact with promoters and modulate gene expression. <i>BioEssays</i> , 2014, 36, 75-83.	1.2	46
49	CHK1-driven histone H3.3 serine 31 phosphorylation is important for chromatin maintenance and cell survival in human ALT cancer cells. <i>Nucleic Acids Research</i> , 2015, 43, 2603-2614.	6.5	46
50	A quick and quantitative chromatin immunoprecipitation assay for small cell samples. <i>Frontiers in Bioscience - Landmark</i> , 2007, 12, 4925.	3.0	44
51	Normalization of RNA-Sequencing Data from Samples with Varying mRNA Levels. <i>PLoS ONE</i> , 2014, 9, e89158.	1.1	44
52	Chromatin Environment of Histone Variant H3.3 Revealed by Quantitative Imaging and Genome-scale Chromatin and DNA Immunoprecipitation. <i>Molecular Biology of the Cell</i> , 2010, 21, 1872-1884.	0.9	42
53	Functional Human Beige Adipocytes From Induced Pluripotent Stem Cells. <i>Diabetes</i> , 2017, 66, 1470-1478.	0.3	42
54	Epigenetic Marking of the Zebrafish Developmental Program. <i>Current Topics in Developmental Biology</i> , 2013, 104, 85-112.	1.0	40

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55	Programming the genome in embryonic and somatic stem cells. <i>Journal of Cellular and Molecular Medicine</i> , 2007, 11, 602-620.	1.6	38
56	Epigenetic reprogramming of nuclei using cell extracts. <i>Stem Cell Reviews and Reports</i> , 2006, 2, 309-317.	5.6	37
57	Inhibition of Endothelial NOTCH1 Signaling Attenuates Inflammation by Reducing Cytokine-Mediated Histone Acetylation at Inflammatory Enhancers. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 854-869.	1.1	37
58	Fast genomic $\hat{1}/4$ ChIP-chip from 1,000 cells. <i>Genome Biology</i> , 2009, 10, R13.	13.9	35
59	Nuclear reprogramming in cell-free extracts. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003, 358, 1389-1395.	1.8	34
60	Long-term in vitro, cell-type-specific genome-wide reprogramming of gene expression. <i>Experimental Cell Research</i> , 2005, 309, 32-47.	1.2	34
61	Manifold Based Optimization for Single-Cell 3D Genome Reconstruction. <i>PLoS Computational Biology</i> , 2015, 11, e1004396.	1.5	34
62	The lipodystrophic hotspot lamin A p.R482W mutation deregulates the mesodermal inducer T/Brachyury and early vascular differentiation gene networks. <i>Human Molecular Genetics</i> , 2018, 27, 1447-1459.	1.4	34
63	Interplay of lamin A and lamin B LADs on the radial positioning of chromatin. <i>Nucleus</i> , 2019, 10, 7-20.	0.6	34
64	Regulation of anchoring of the RII $\hat{1}$ regulatory subunit of PKA to AKAP95 by threonine phosphorylation of RII $\hat{1}$: implications for chromosome dynamics at mitosis. <i>Journal of Cell Science</i> , 2001, 114, 3255-3264.	1.2	34
65	Epigenetic states in stem cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 900-905.	1.1	33
66	The State-of-the-Art of Chromatin Immunoprecipitation. <i>Methods in Molecular Biology</i> , 2009, 567, 1-25.	0.4	32
67	Histone modifications and mRNA expression in the inner cell mass and trophectoderm of bovine blastocysts. <i>Epigenetics</i> , 2013, 8, 281-289.	1.3	32
68	CDK1-mediated phosphorylation of the RII $\hat{1}$ regulatory subunit of PKA works as a molecular switch that promotes dissociation of RII $\hat{1}$ from centrosomes at mitosis. <i>Journal of Cell Science</i> , 2001, 114, 3243-3254.	1.2	32
69	Chromatin states of core pluripotency-associated genes in pluripotent, multipotent and differentiated cells. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 762-767.	1.0	31
70	Differential regulation of maternal and paternal chromosome condensation in mitotic zygotes. <i>Journal of Cell Science</i> , 2002, 115, 2931-2940.	1.2	31
71	Epigenetic Regulation of Nestin Expression During Neurogenic Differentiation of Adipose Tissue Stem Cells. <i>Stem Cells and Development</i> , 2013, 22, 1042-1052.	1.1	30
72	$\hat{1}/4$ ChIP: Chromatin Immunoprecipitation for Small Cell Numbers. <i>Methods in Molecular Biology</i> , 2009, 567, 59-74.	0.4	27

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73	Nuclear lamins. <i>Nucleus</i> , 2013, 4, 424-430.	0.6	27
74	Deregulation of Fragile X-related protein 1 by the lipodystrophic lamin A p.R482W mutation elicits a myogenic gene expression program in preadipocytes. <i>Human Molecular Genetics</i> , 2014, 23, 1151-1162.	1.4	27
75	Identification, cloning and characterization of a novel nuclear protein, HA95, homologous to A-kinase anchoring protein 95*. <i>Biology of the Cell</i> , 2000, 92, 27-37.	0.7	26
76	Embryo Aggregation in Pig Improves Cloning Efficiency and Embryo Quality. <i>PLoS ONE</i> , 2016, 11, e0146390.	1.1	26
77	Promoter-exon relationship of H3 lysine 9, 27, 36 and 79 methylation on pluripotency-associated genes. <i>Biochemical and Biophysical Research Communications</i> , 2010, 401, 611-617.	1.0	25
78	Epigenetic Basis for the Differentiation Potential of Mesenchymal and Embryonic Stem Cells. <i>Transfusion Medicine and Hemotherapy</i> , 2008, 35, 205-215.	0.7	23
79	Epigenetic priming of inflammatory response genes by high glucose in adipose progenitor cells. <i>Biochemical and Biophysical Research Communications</i> , 2015, 467, 979-986.	1.0	23
80	OPA1-anchored PKA phosphorylates perilipin 1 on S522 and S497 in adipocytes differentiated from human adipose stem cells. <i>Molecular Biology of the Cell</i> , 2018, 29, 1487-1501.	0.9	22
81	Nuclear Lamin B1 Interactions With Chromatin During the Circadian Cycle Are Uncoupled From Periodic Gene Expression. <i>Frontiers in Genetics</i> , 2019, 10, 917.	1.1	21
82	On the way to reprogramming cells to pluripotency using cell-free extracts. <i>Reproductive BioMedicine Online</i> , 2006, 12, 762-770.	1.1	19
83	Sensitive on-chip quantitative real-time PCR performed on an adaptable and robust platform. <i>Biomedical Microdevices</i> , 2008, 10, 769-776.	1.4	19
84	H3.Y discriminates between HIRA and DAXX chaperone complexes and reveals unexpected insights into human DAXX-H3.3-H4 binding and deposition requirements. <i>Nucleic Acids Research</i> , 2017, 45, 5691-5706.	6.5	19
85	The specific alteration of histone methylation profiles by DZNep during early zebrafish development. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2014, 1839, 1307-1315.	0.9	18
86	H3K27me3 Does Not Orchestrate the Expression of Lineage-Specific Markers in hESC-Derived Hepatocytes <i>In Vitro</i> . <i>Stem Cell Reports</i> , 2016, 7, 192-206.	2.3	18
87	Novel Approaches to Epigenetic Reprogramming of Somatic Cells. <i>Cloning and Stem Cells</i> , 2007, 9, 26-32.	2.6	17
88	Compromised Telomeric Heterochromatin Promotes ALternative Lengthening of Telomeres. <i>Trends in Cancer</i> , 2016, 2, 114-116.	3.8	17
89	Finding Friends in the Crowd: Three-Dimensional Cliques of Topological Genomic Domains. <i>Frontiers in Genetics</i> , 2019, 10, 602.	1.1	17
90	Persistence of Collagen Type II Synthesis and Secretion in Rapidly Proliferating Human Articular Chondrocytes <i>In Vitro</i> . <i>Tissue Engineering - Part A</i> , 2008, 14, 1999-2007.	1.6	16

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91	4D nucleomes in single cells: what can computational modeling reveal about spatial chromatin conformation?. <i>Genome Biology</i> , 2016, 17, 54.	3.8	16
92	Sperm chromatin integrity and DNA methylation in Norwegian Red bulls of contrasting fertility. <i>Molecular Reproduction and Development</i> , 2021, 88, 187-200.	1.0	15
93	Lamin A/C deficiency in CD4 ⁺ T cells enhances regulatory T cells and prevents inflammatory bowel disease. <i>Journal of Pathology</i> , 2019, 249, 509-522.	2.1	12
94	Histone H3.3 phosphorylation promotes heterochromatin formation by inhibiting H3K9/K36 histone demethylase. <i>Nucleic Acids Research</i> , 2022, 50, 4500-4514.	6.5	12
95	Restructuring of Lamina-Associated Domains in Senescence and Cancer. <i>Cells</i> , 2022, 11, 1846.	1.8	12
96	A hyper-dynamic nature of bivalent promoter states underlies coordinated developmental gene expression modules. <i>BMC Genomics</i> , 2014, 15, 1186.	1.2	11
97	Mapping Nuclear Lamin-Genome Interactions by Chromatin Immunoprecipitation of Nuclear Lamins. <i>Methods in Molecular Biology</i> , 2016, 1411, 315-324.	0.4	11
98	AKAP95 interacts with nucleoporin TPR in mitosis and is important for the spindle assembly checkpoint. <i>Cell Cycle</i> , 2017, 16, 947-956.	1.3	10
99	Local euchromatin enrichment in lamina-associated domains anticipates their repositioning in the adipogenic lineage. <i>Genome Biology</i> , 2022, 23, 91.	3.8	10
100	A Chromatin Immunoprecipitation Protocol for Small Cell Numbers. <i>Methods in Molecular Biology</i> , 2011, 791, 179-193.	0.4	9
101	Gene-Gun-Mediated Transfer of Reporter Genes to Somatic Zebrafish (<i>Danio rerio</i>) Tissues. <i>Marine Biotechnology</i> , 2000, 2, 293-300.	1.1	8
102	TAD cliques predict key features of chromatin organization. <i>BMC Genomics</i> , 2021, 22, 499.	1.2	8
103	Proteomics Analysis of Epithelial Cells Reprogrammed in Cell-free Extract. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 1401-1412.	2.5	7
104	Localized Movement and Levels of 53BP1 Protein Are Changed by γ irradiation in PML Deficient Cells. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 2583-2596.	1.2	7
105	Physical constraints in polymer modeling of chromatin associations with the nuclear periphery at kilobase scale. <i>Nucleus</i> , 2021, 12, 6-20.	0.6	7
106	STAMP2 is required for human adipose-derived stem cell differentiation and adipocyte-facilitated prostate cancer growth <i>in vivo</i> . <i>Oncotarget</i> , 2017, 8, 91817-91827.	0.8	7
107	Biology and Model Predictions of the Dynamics and Heterogeneity of Chromatin-Nuclear Lamina Interactions. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, .	1.8	7
108	TLR9 stimulation of B-cells induces transcription of p53 and prevents spontaneous and irradiation-induced cell death independent of DNA damage responses. Implications for Common variable immunodeficiency. <i>PLoS ONE</i> , 2017, 12, e0185708.	1.1	6

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109	A-kinase anchoring protein (AKAP)95 is a novel regulator of ribosomal RNA synthesis. FEBS Journal, 2016, 283, 757-770.	2.2	5
110	PML modulates H3.3 targeting to telomeric and centromeric repeats in mouse fibroblasts. Biochemical and Biophysical Research Communications, 2019, 511, 882-888.	1.0	5
111	DNA-containing extracellular 50-nm particles in the ileal Peyer's patch of sheep. European Journal of Cell Biology, 2002, 81, 69-76.	1.6	4
112	Lamin A, Chromatin and FPLD2: Not Just a Peripheral Manager-Trois. Frontiers in Cell and Developmental Biology, 2018, 6, 73.	1.8	3
113	Modeling the 3D Genome Using Hi-C and Nuclear Lamin-Genome Contacts. Methods in Molecular Biology, 2022, 2301, 337-352.	0.4	1
114	Epigenetic Basis for Differentiation Plasticity in Stem Cells. , 2009, , 257-268.		1
115	Transcription outcome of promoters enriched in histone variant H3.3 defined by positioning of H3.3 and local chromatin marks. Biochemical and Biophysical Research Communications, 2015, 460, 348-353.	1.0	0
116	Signalling to the nucleus via A-kinase anchoring proteins. Symposia of the Society for Experimental Biology, 2004, , 245-63.	0.0	0