Mitchell Guttman

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9454818/publications.pdf

Version: 2024-02-01

		50276	123424
59	42,395	46	61
papers	citations	h-index	g-index

70	70	70	61697
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Integrative genomics viewer. Nature Biotechnology, 2011, 29, 24-26.	17.5	11,708
2	Chromatin signature reveals over a thousand highly conserved large non-coding RNAs in mammals. Nature, 2009, 458, 223-227.	27.8	3,801
3	Many human large intergenic noncoding RNAs associate with chromatin-modifying complexes and affect gene expression. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11667-11672.	7.1	2,709
4	Modular regulatory principles of large non-coding RNAs. Nature, 2012, 482, 339-346.	27.8	2,036
5	A Large Intergenic Noncoding RNA Induced by p53 Mediates Global Gene Repression in the p53 Response. Cell, 2010, 142, 409-419.	28.9	1,919
6	lincRNAs act in the circuitry controlling pluripotency and differentiation. Nature, 2011, 477, 295-300.	27.8	1,749
7	Ab initio reconstruction of cell typeâ€“specific transcriptomes in mouse reveals the conserved multi-exonic structure of lincRNAs. Nature Biotechnology, 2010, 28, 503-510.	17.5	1,251
8	m6A RNA methylation promotes XIST-mediated transcriptional repression. Nature, 2016, 537, 369-373.	27.8	1,250
9	Robust transcriptome-wide discovery of RNA-binding protein binding sites with enhanced CLIP (eCLIP). Nature Methods, 2016, 13, 508-514.	19.0	1,092
10	Local regulation of gene expression by lncRNA promoters, transcription and splicing. Nature, 2016, 539, 452-455.	27.8	1,056
11	A high-resolution map of human evolutionary constraint using 29 mammals. Nature, 2011, 478, 476-482.	27.8	1,016
12	The Xist lncRNA interacts directly with SHARP to silence transcription through HDAC3. Nature, 2015, 521, 232-236.	27.8	946
13	Computational methods for transcriptome annotation and quantification using RNA-seq. Nature Methods, 2011, 8, 469-477.	19.0	919
14	Large intergenic non-coding RNA-RoR modulates reprogramming of human induced pluripotent stem cells. Nature Genetics, 2010, 42, 1113-1117.	21.4	902
15	The Xist lncRNA Exploits Three-Dimensional Genome Architecture to Spread Across the X Chromosome. Science, 2013, 341, 1237973.	12.6	846
16	Transcriptome-wide Mapping Reveals Widespread Dynamic-Regulated Pseudouridylation of ncRNA and mRNA. Cell, 2014, 159, 148-162.	28.9	770
17	Ribosome Profiling Provides Evidence that Large Noncoding RNAs Do Not Encode Proteins. Cell, 2013, 154, 240-251.	28.9	678
18	Higher-Order Inter-chromosomal Hubs Shape 3D Genome Organization in the Nucleus. Cell, 2018, 174, 744-757.e24.	28.9	649

#	Article	IF	Citations
19	The 4D nucleome project. Nature, 2017, 549, 219-226.	27.8	579
20	Long non-coding RNAs: spatial amplifiers that control nuclear structure and gene expression. Nature Reviews Molecular Cell Biology, 2016, 17, 756-770.	37.0	510
21	Unbiased Reconstruction of a Mammalian Transcriptional Network Mediating Pathogen Responses. Science, 2009, 326, 257-263.	12.6	473
22	A signaling pathway leading to metastasis is controlled by N-cadherin and the FGF receptor. Cancer Cell, 2002, 2, 301-314.	16.8	461
23	SARS-CoV-2 Disrupts Splicing, Translation, and Protein Trafficking to Suppress Host Defenses. Cell, 2020, 183, 1325-1339.e21.	28.9	442
24	RNA-RNA Interactions Enable Specific Targeting of Noncoding RNAs to Nascent Pre-mRNAs and Chromatin Sites. Cell, 2014, 159, 188-199.	28.9	425
25	Transcriptional and Epigenetic Dynamics during Specification of Human Embryonic Stem Cells. Cell, 2013, 153, 1149-1163.	28.9	419
26	A High-Throughput Chromatin Immunoprecipitation Approach Reveals Principles of Dynamic Gene Regulation in Mammals. Molecular Cell, 2012, 47, 810-822.	9.7	375
27	The NORAD lncRNA assembles a topoisomerase complex critical for genome stability. Nature, 2018, 561, 132-136.	27.8	303
28	Long noncoding RNAs: an emerging link between gene regulation and nuclear organization. Trends in Cell Biology, 2014, 24, 651-663.	7.9	286
29	Xist recruits the X chromosome to the nuclear lamina to enable chromosome-wide silencing. Science, 2016, 354, 468-472.	12.6	257
30	Simultaneous generation of many RNA-seq libraries in a single reaction. Nature Methods, 2015, 12, 323-325.	19.0	256
31	Mutations causing medullary cystic kidney disease type 1 lie in a large VNTR in MUC1 missed by massively parallel sequencing. Nature Genetics, 2013, 45, 299-303.	21.4	237
32	Integrated spatial genomics reveals global architecture of single nuclei. Nature, 2021, 590, 344-350.	27.8	228
33	RNA promotes the formation of spatial compartments in the nucleus. Cell, 2021, 184, 5775-5790.e30.	28.9	192
34	Evolutionary analysis across mammals reveals distinct classes of long non-coding RNAs. Genome Biology, 2016, 17, 19.	8.8	141
35	Methods for comprehensive experimental identification of RNA-protein interactions. Genome Biology, 2014, 15, 203.	9.6	140
36	Nuclear compartmentalization as a mechanism of quantitative control of gene expression. Nature Reviews Molecular Cell Biology, 2021, 22, 653-670.	37.0	131

#	Article	IF	Citations
37	A protein assembly mediates Xist localization and gene silencing. Nature, 2020, 587, 145-151.	27.8	123
38	RNA and dynamic nuclear organization. Science, 2014, 345, 1240-1241.	12.6	119
39	Quantitative predictions of protein interactions with long noncoding RNAs. Nature Methods, 2017, 14, 5-6.	19.0	113
40	Phase separation drives X-chromosome inactivation: a hypothesis. Nature Structural and Molecular Biology, 2019, 26, 331-334.	8.2	98
41	N-cadherin Expression in Breast Cancer: Correlation with an Aggressive Histologic Variant â€“ Invasive Micropapillary Carcinoma. Breast Cancer Research and Treatment, 2005, 94, 225-235.	2.5	78
42	RAP-MS: A Method to Identify Proteins that Interact Directly with a Specific RNA Molecule in Cells. Methods in Molecular Biology, 2018, 1649, 473-488.	0.9	68
43	Single-cell measurement of higher-order 3D genome organization with scSPRITE. Nature Biotechnology, 2022, 40, 64-73.	17.5	63
44	Xist nucleates local protein gradients to propagate silencing across the X chromosome. Cell, 2021, 184, 6174-6192.e32.	28.9	62
45	The bipartite TAD organization of the X-inactivation center ensures opposing developmental regulation of Tsix and Xist. Nature Genetics, 2019, 51, 1024-1034.	21.4	60
46	Approaches for Understanding the Mechanisms of Long Noncoding RNA Regulation of Gene Expression. Cold Spring Harbor Perspectives in Biology, 2019, 11, a032151.	5.5	58
47	Digital transcriptome profiling from attomole-level RNA samples. Genome Research, 2010, 20, 519-525.	5.5	56
48	Xist spatially amplifies SHARP/SPEN recruitment to balance chromosome-wide silencing and specificity to the X chromosome. Nature Structural and Molecular Biology, 2022, 29, 239-249.	8.2	46
49	Assessing the Significance of Conserved Genomic Aberrations Using High Resolution Genomic Microarrays. PLoS Genetics, 2007, 3, e143.	3.5	41
50	Xist drives spatial compartmentalization of DNA and protein to orchestrate initiation and maintenance of X inactivation. Current Opinion in Cell Biology, 2020, 64, 139-147.	5.4	38
51	The NIH BD2K center for big data in translational genomics. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1143-1147.	4.4	30
52	SPRITE: a genome-wide method for mapping higher-order 3D interactions in the nucleus using combinatorial split-and-pool barcoding. Nature Protocols, 2022, 17, 36-75.	12.0	24
53	High-Resolution Mapping of Multiway Enhancer-Promoter Interactions Regulating Pathogen Detection. Molecular Cell, 2020, 80, 359-373.e8.	9.7	21
54	Integrative genome modeling platform reveals essentiality of rare contact events in 3D genome organizations. Nature Methods, 2022, 19, 938-949.	19.0	20

#	Article	IF	Citations
55	Essential Roles for RNA in Shaping Nuclear Organization. Cold Spring Harbor Perspectives in Biology, 2022, 14, a039719.	5.5	19
56	Reâ€evaluating the foundations of lnc RNA â€“Polycomb function. EMBO Journal, 2017, 36, 964-966.	7.8	11
57	Response to Comment on â€œXist recruits the X chromosome to the nuclear lamina to enable chromosome-wide silencingâ€. Science, 2017, 356, .	12.6	5
58	A Guide to Packing Your DNA. Cell, 2016, 165, 259-261.	28.9	2
59	Linking Protein and RNA Function within the Same Gene. Cell, 2017, 168, 753-755.	28.9	2