

# Anton Nekrutenko

## List of Publications by Year in descending order

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Version: 2024-02-01

96  
papers

22,425  
citations

66343

42  
h-index

42399

92  
g-index

120  
all docs

120  
docs citations

120  
times ranked

32668  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inverting the model of genomics data sharing with the NHGRI Genomic Data Science Analysis, Visualization, and Informatics Lab-space. <i>Cell Genomics</i> , 2022, 2, 100085.	6.5	59
2	Selection Analysis Identifies Clusters of Unusual Mutational Changes in Omicron Lineage BA.1 That Likely Impact Spike Function. <i>Molecular Biology and Evolution</i> , 2022, 39, .	8.9	84
3	Detection of SARS-CoV-2 intra-host recombination during superinfection with Alpha and Epsilon variants in New York City. <i>Nature Communications</i> , 2022, 13, .	12.8	22
4	Sequencing error profiles of Illumina sequencing instruments. <i>NAR Genomics and Bioinformatics</i> , 2021, 3, lqab019.	3.2	188
5	Increased yields of duplex sequencing data by a series of quality control tools. <i>NAR Genomics and Bioinformatics</i> , 2021, 3, lqab002.	3.2	6
6	Using Galaxy to Perform Large-scale Interactive Data Analyses—An Update. <i>Current Protocols</i> , 2021, 1, e31.	2.9	4
7	Fostering accessible online education using Galaxy as an e-learning platform. <i>PLoS Computational Biology</i> , 2021, 17, e1008923.	3.2	15
8	Reproducible and accessible analysis of transposon insertion sequencing in Galaxy for qualitative essentiality analyses. <i>BMC Microbiology</i> , 2021, 21, 168.	3.3	1
9	CYAN: Accelerating Bioinformatics Tools in Galaxy with GPU-Aware Computation Mapping. , 2021, , .		1
10	Stepwise Evolution and Exceptional Conservation of ORF1a/b Overlap in Coronaviruses. <i>Molecular Biology and Evolution</i> , 2021, 38, 5678-5684.	8.9	6
11	Ready-to-use public infrastructure for global SARS-CoV-2 monitoring. <i>Nature Biotechnology</i> , 2021, 39, 1178-1179.	17.5	21
12	HyPhy 2.5—A Customizable Platform for Evolutionary Hypothesis Testing Using Phylogenies. <i>Molecular Biology and Evolution</i> , 2020, 37, 295-299.	8.9	342
13	A single-cell RNA-sequencing training and analysis suite using the Galaxy framework. <i>GigaScience</i> , 2020, 9, .	6.4	14
14	No more business as usual: Agile and effective responses to emerging pathogen threats require open data and open analytics. <i>PLoS Pathogens</i> , 2020, 16, e1008643.	4.7	22
15	In memory of James Taylor: the birth of Galaxy. <i>Genome Biology</i> , 2020, 21, 105.	8.8	1
16	Family reunion via error correction: an efficient analysis of duplex sequencing data. <i>BMC Bioinformatics</i> , 2020, 21, 96.	2.6	10
17	The Galaxy platform for accessible, reproducible and collaborative biomedical analyses: 2020 update. <i>Nucleic Acids Research</i> , 2020, 48, W395-W402.	14.5	322
18	A High-Resolution View of Adaptive Event Dynamics in a Plasmid. <i>Genome Biology and Evolution</i> , 2019, 11, 3022-3034.	2.5	11

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19	Predicting runtimes of bioinformatics tools based on historical data: five years of Galaxy usage. <i>Bioinformatics</i> , 2019, 35, 3453-3460.	4.1	11
20	Bottleneck and selection in the germline and maternal age influence transmission of mitochondrial DNA in human pedigrees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25172-25178.	7.1	71
21	Biology Needs Evolutionary Software Tools: Let's Build Them Right. <i>Molecular Biology and Evolution</i> , 2018, 35, 1372-1375.	8.9	6
22	Child Weight Gain Trajectories Linked To Oral Microbiota Composition. <i>Scientific Reports</i> , 2018, 8, 14030.	3.3	39
23	The Galaxy platform for accessible, reproducible and collaborative biomedical analyses: 2018 update. <i>Nucleic Acids Research</i> , 2018, 46, W537-W544.	14.5	3,003
24	Community-Driven Data Analysis Training for Biology. <i>Cell Systems</i> , 2018, 6, 752-758.e1.	6.2	141
25	Practical Computational Reproducibility in the Life Sciences. <i>Cell Systems</i> , 2018, 6, 631-635.	6.2	100
26	Jupyter and Galaxy: Easing entry barriers into complex data analyses for biomedical researchers. <i>PLoS Computational Biology</i> , 2017, 13, e1005425.	3.2	53
27	Streamlined analysis of duplex sequencing data with Du Novo. <i>Genome Biology</i> , 2016, 17, 180.	8.8	24
28	The Galaxy platform for accessible, reproducible and collaborative biomedical analyses: 2016 update. <i>Nucleic Acids Research</i> , 2016, 44, W3-W10.	14.5	1,751
29	Integrative genomic analysis by interoperation of bioinformatics tools in GenomeSpace. <i>Nature Methods</i> , 2016, 13, 245-247.	19.0	44
30	Online Resources for Genomic Analysis Using High-Throughput Sequencing. <i>Cold Spring Harbor Protocols</i> , 2015, 2015, pdb.top083667.	0.3	6
31	StructureFold: genome-wide RNA secondary structure mapping and reconstruction <i>in vivo</i> . <i>Bioinformatics</i> , 2015, 31, 2668-2675.	4.1	43
32	Controlling for contamination in re-sequencing studies with a reproducible web-based phylogenetic approach. <i>BioTechniques</i> , 2014, 56, 134-141.	1.8	22
33	Maternal age effect and severe germ-line bottleneck in the inheritance of human mitochondrial DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15474-15479.	7.1	201
34	Wrangling Galaxy's reference data. <i>Bioinformatics</i> , 2014, 30, 1917-1919.	4.1	31
35	Dissemination of scientific software with Galaxy ToolShed. <i>Genome Biology</i> , 2014, 15, 403.	9.6	205
36	Web-based visual analysis for high-throughput genomics. <i>BMC Genomics</i> , 2013, 14, 397.	2.8	45

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37	RNAâ€DNA differences in human mitochondria restore ancestral form of 16S ribosomal RNA. <i>Genome Research</i> , 2013, 23, 1789-1796.	5.5	49
38	The anatomy of successful computational biology software. <i>Nature Biotechnology</i> , 2013, 31, 894-897.	17.5	25
39	Ten Simple Rules for Reproducible Computational Research. <i>PLoS Computational Biology</i> , 2013, 9, e1003285.	3.2	509
40	A sustainable national gateway for biological computation. , 2013, , .		0
41	Lessons learned from Galaxy, a Web-based platform for high-throughput genomic analyses. , 2012, , .		5
42	Next-generation sequencing data interpretation: enhancing reproducibility and accessibility. <i>Nature Reviews Genetics</i> , 2012, 13, 667-672.	16.3	269
43	Using Galaxy to Perform Largeâ€Scale Interactive Data Analyses. <i>Current Protocols in Bioinformatics</i> , 2012, 38, Unit10.5.	25.8	36
44	NGS analyses by visualization with Trackster. <i>Nature Biotechnology</i> , 2012, 30, 1036-1039.	17.5	26
45	A reference model for deploying applications in virtualized environments. <i>Concurrency Computation Practice and Experience</i> , 2012, 24, 1349-1361.	2.2	4
46	Harnessing cloud computing with Galaxy Cloud. <i>Nature Biotechnology</i> , 2011, 29, 972-974.	17.5	100
47	Dynamics of mitochondrial heteroplasmy in three families investigated via a repeatable re-sequencing study. <i>Genome Biology</i> , 2011, 12, R59.	8.8	93
48	A Massively Parallel Sequencing Approach Uncovers Ancient Origins and High Genetic Variability of Endangered Przewalski's Horses. <i>Genome Biology and Evolution</i> , 2011, 3, 1096-1106.	2.5	51
49	Making whole genome multiple alignments usable for biologists. <i>Bioinformatics</i> , 2011, 27, 2426-2428.	4.1	43
50	Integrating diverse databases into an unified analysis framework: a Galaxy approach. <i>Database: the Journal of Biological Databases and Curation</i> , 2011, 2011, bar011-bar011.	3.0	46
51	Galaxy: A Gateway to Tools in e-Science. <i>Computer Communications and Networks</i> , 2011, , 145-177.	0.8	20
52	Galaxy CloudMan: delivering cloud compute clusters. <i>BMC Bioinformatics</i> , 2010, 11, S4.	2.6	140
53	Complete Khoisan and Bantu genomes from southern Africa. <i>Nature</i> , 2010, 463, 943-947.	27.8	400
54	Manipulation of FASTQ data with Galaxy. <i>Bioinformatics</i> , 2010, 26, 1783-1785.	4.1	587

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55	Galaxy: A Web-Based Genome Analysis Tool for Experimentalists. <i>Current Protocols in Molecular Biology</i> , 2010, 89, Unit 19.10.1-21.	2.9	1,159
56	Galaxy: a comprehensive approach for supporting accessible, reproducible, and transparent computational research in the life sciences. <i>Genome Biology</i> , 2010, 11, R86.	9.6	3,082
57	Web-Based Analysis of (Epi-) Genome Data Using EpiGRAPH and Galaxy. <i>Methods in Molecular Biology</i> , 2010, 628, 275-296.	0.9	10
58	Windshield splatter analysis with the Galaxy metagenomic pipeline. <i>Genome Research</i> , 2009, 19, 2144-2153.	5.5	68
59	High-Resolution Mapping of Evolutionary Trajectories in a Phage. <i>Genome Biology and Evolution</i> , 2009, 1, 294-307.	2.5	10
60	Transcriptome of embryonic and neonatal mouse cortex by high-throughput RNA sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12741-12746.	7.1	72
61	Wheels within Wheels: Clues to the Evolution of the Gnas and Gnal Loci. <i>Molecular Biology and Evolution</i> , 2008, 25, 2745-2757.	8.9	9
62	Toward the commoditization of translational genomic research: Design and implementation features of the Galaxy genomic workbench. <i>Summit on Translational Bioinformatics</i> , 2008, 2008, 56-60.	0.7	0
63	Rapid asymmetric evolution of a dual-coding tumor suppressor INK4a/ARF locus contradicts its function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12807-12812.	7.1	22
64	28-Way vertebrate alignment and conservation track in the UCSC Genome Browser. <i>Genome Research</i> , 2007, 17, 1797-1808.	5.5	237
65	A First Look at ARFome: Dual-Coding Genes in Mammalian Genomes. <i>PLoS Computational Biology</i> , 2007, 3, e91.	3.2	68
66	Using Galaxy to Perform Large-Scale Interactive Data Analyses. <i>Current Protocols in Bioinformatics</i> , 2007, 19, Unit 10.5.	25.8	100
67	A framework for collaborative analysis of ENCODE data: Making large-scale analyses biologist-friendly. <i>Genome Research</i> , 2007, 17, 960-964.	5.5	122
68	mNSC1 shows no evidence of protein-coding capacity. <i>Gene</i> , 2006, 370, 83-85.	2.2	2
69	Functionality of unspliced XBP1 is required to explain evolution of overlapping reading frames. <i>Trends in Genetics</i> , 2006, 22, 645-648.	6.7	31
70	Rapid and asymmetric divergence of duplicate genes in the human gene coexpression network. <i>BMC Bioinformatics</i> , 2006, 7, 46.	2.6	45
71	Oscillating Evolution of a Mammalian Locus with Overlapping Reading Frames: An XLI±s/ALEX Relay. <i>PLoS Genetics</i> , 2005, 1, e18.	3.5	39
72	Galaxy: A platform for interactive large-scale genome analysis. <i>Genome Research</i> , 2005, 15, 1451-1455.	5.5	1,795

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73	Reconciling the Numbers: ESTs Versus Protein-Coding Genes. <i>Molecular Biology and Evolution</i> , 2004, 21, 1278-1282.	8.9	17
74	Genome sequence of the Brown Norway rat yields insights into mammalian evolution. <i>Nature</i> , 2004, 428, 493-521.	27.8	1,943
75	Sequence and comparative analysis of the chicken genome provide unique perspectives on vertebrate evolution. <i>Nature</i> , 2004, 432, 695-716.	27.8	2,421
76	Identification of Novel Exons from Ratâ€™Mouse Comparisons. <i>Journal of Molecular Evolution</i> , 2004, 59, 703-708.	1.8	12
77	COMPARATIVE GENOMICS. <i>Annual Review of Genomics and Human Genetics</i> , 2004, 5, 15-56.	6.2	156
78	Detection of gene duplications and block duplications in eukaryotic genomes. <i>Journal of Structural and Functional Genomics</i> , 2003, 3, 27-34.	1.2	21
79	An evolutionary approach reveals a high protein-coding capacity of the human genome. <i>Trends in Genetics</i> , 2003, 19, 306-310.	6.7	33
80	Subgenome-specific markers in allopolyploid cotton <i>Gossypium hirsutum</i> : implications for evolutionary analysis of polyploids. <i>Gene</i> , 2003, 306, 99-103.	2.2	10
81	Evolutionary Dynamics of Oncogenes and Tumor Suppressor Genes: Higher Intensities of Purifying Selection than Other Genes. <i>Molecular Biology and Evolution</i> , 2003, 20, 964-968.	8.9	57
82	ETOPE: evolutionary test of predicted exons. <i>Nucleic Acids Research</i> , 2003, 31, 3564-3567.	14.5	17
83	Detection of gene duplications and block duplications in eukaryotic genomes. , 2003, , 27-34.		1
84	Detection of gene duplications and block duplications in eukaryotic genomes. <i>Journal of Structural and Functional Genomics</i> , 2003, 3, 27-34.	1.2	12
85	Signatures of Domain Shuffling in the Human Genome. <i>Genome Research</i> , 2002, 12, 1642-1650.	5.5	91
86	The KA/KS Ratio Test for Assessing the Protein-Coding Potential of Genomic Regions: An Empirical and Simulation Study. <i>Genome Research</i> , 2002, 12, 198-202.	5.5	233
87	Bushbaby Growth Hormone Is Much More Similar to Nonprimate Growth Hormones than to Rhesus Monkey and Human Growth Hormones. <i>Molecular Biology and Evolution</i> , 2001, 18, 55-60.	8.9	29
88	Evolutionary analyses of the human genome. <i>Nature</i> , 2001, 409, 847-849.	27.8	442
89	Transposable elements are found in a large number of human protein-coding genes. <i>Trends in Genetics</i> , 2001, 17, 619-621.	6.7	383
90	Evolution of Microsatellite Alleles in Four Species of Mice (Genus <i>Apodemus</i> ). <i>Journal of Molecular Evolution</i> , 2000, 51, 166-172.	1.8	51

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91	Isolation of binary species-specific PCR-based markers and their value for diagnostic applications. <i>Gene</i> , 2000, 249, 47-51.	2.2	11
92	Densities, length proportions, and other distributional features of repetitive sequences in the human genome estimated from 430 megabases of genomic sequence. <i>Gene</i> , 2000, 259, 81-88.	2.2	91
93	Assessment of Compositional Heterogeneity Within and Between Eukaryotic Genomes. <i>Genome Research</i> , 2000, 10, 1986-1995.	5.5	15
94	Representational difference analysis to distinguish cryptic species. <i>Molecular Ecology</i> , 1999, 8, 1235-1237.	3.9	16
95	Representational difference analysis to distinguish cryptic species. <i>Molecular Ecology</i> , 1999, 8, 1235.	3.9	3
96	A guide and best practices for R/Bioconductor tool integration in Galaxy. <i>F1000Research</i> , 0, 5, 2757.	1.6	3