

# Robi D Mitra

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

5,151  
citations

218677

26  
h-index

138484

58  
g-index

70  
all docs

70  
docs citations

70  
times ranked

8174  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accurate Multiplex Polony Sequencing of an Evolved Bacterial Genome. <i>Science</i> , 2005, 309, 1728-1732.	12.6	1,189
2	Advanced sequencing technologies: methods and goals. <i>Nature Reviews Genetics</i> , 2004, 5, 335-344.	16.3	499
3	A computational analysis of whole-genome expression data reveals chromosomal domains of gene expression. <i>Nature Genetics</i> , 2000, 26, 183-186.	21.4	485
4	Fluorescence resonance energy transfer between blue-emitting and red-shifted excitation derivatives of the green fluorescent protein. <i>Gene</i> , 1996, 173, 13-17.	2.2	307
5	In situ localized amplification and contact replication of many individual DNA molecules. <i>Nucleic Acids Research</i> , 1999, 27, 34e-34.	14.5	202
6	Rapid and Extraction-Free Detection of SARS-CoV-2 from Saliva by Colorimetric Reverse-Transcription Loop-Mediated Isothermal Amplification. <i>Clinical Chemistry</i> , 2021, 67, 415-424.	3.2	192
7	Amyotrophic lateral sclerosis onset is influenced by the burden of rare variants in known amyotrophic lateral sclerosis genes. <i>Annals of Neurology</i> , 2015, 77, 100-113.	5.3	171
8	Validation of a Next-Generation Sequencing Assay for Clinical Molecular Oncology. <i>Journal of Molecular Diagnostics</i> , 2014, 16, 89-105.	2.8	168
9	Fluorescent in situ sequencing on polymerase colonies. <i>Analytical Biochemistry</i> , 2003, 320, 55-65.	2.4	159
10	Digital genotyping and haplotyping with polymerase colonies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 5926-5931.	7.1	141
11	Quantification of rare allelic variants from pooled genomic DNA. <i>Nature Methods</i> , 2009, 6, 263-265.	19.0	136
12	Single-Cell RNA-Seq Uncovers a Robust Transcriptional Response to Morphine by Glia. <i>Cell Reports</i> , 2018, 24, 3619-3629.e4.	6.4	109
13	ATHLATES: accurate typing of human leukocyte antigen through exome sequencing. <i>Nucleic Acids Research</i> , 2013, 41, e142-e142.	14.5	104
14	Long-range polony haplotyping of individual human chromosome molecules. <i>Nature Genetics</i> , 2006, 38, 382-387.	21.4	97
15	Single Molecule Profiling of Alternative Pre-mRNA Splicing. <i>Science</i> , 2003, 301, 836-838.	12.6	93
16	Single <i>ABCA3</i> Mutations Increase Risk for Neonatal Respiratory Distress Syndrome. <i>Pediatrics</i> , 2012, 130, e1575-e1582.	2.1	93
17	Sequencing of idiopathic pulmonary fibrosis-related genes reveals independent single gene associations. <i>BMJ Open Respiratory Research</i> , 2014, 1, e000057.	3.0	69
18	Cardiac signaling genes exhibit unexpected sequence diversity in sporadic cardiomyopathy, revealing HSPB7 polymorphisms associated with disease. <i>Journal of Clinical Investigation</i> , 2010, 120, 280-289.	8.2	64

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19	Protein Quantification in Complex Mixtures by Solid Phase Single-Molecule Counting. <i>Analytical Chemistry</i> , 2009, 81, 7141-7148.	6.5	62
20	High-throughput discovery of rare insertions and deletions in large cohorts. <i>Genome Research</i> , 2010, 20, 1711-1718.	5.5	56
21	Self-Reporting Transposons Enable Simultaneous Readout of Gene Expression and Transcription Factor Binding in Single Cells. <i>Cell</i> , 2020, 182, 992-1008.e21.	28.9	54
22	High-throughput single-cell functional elucidation of neurodevelopmental disease-associated genes reveals convergent mechanisms altering neuronal differentiation. <i>Genome Research</i> , 2020, 30, 1317-1331.	5.5	50
23	Laser capture microdissection-reduced representation bisulfite sequencing (LCM-RRBS) maps changes in DNA methylation associated with gonadectomy-induced adrenocortical neoplasia in the mouse. <i>Nucleic Acids Research</i> , 2013, 41, e116-e116.	14.5	38
24	Disentangling glial diversity in peripheral nerves at single-nuclei resolution. <i>Nature Neuroscience</i> , 2022, 25, 238-251.	14.8	35
25	A systematic study of gene expression variation at single-nucleotide resolution reveals widespread regulatory roles for uAUGs. <i>Genome Research</i> , 2012, 22, 1089-1097.	5.5	28
26	High-resolution HLA typing by long reads from the R10.3 Oxford nanopore flow cells. <i>Human Immunology</i> , 2021, 82, 288-295.	2.4	28
27	Brd4-bound enhancers drive cell-intrinsic sex differences in glioblastoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	28
28	Ultralow Protein Adsorbing Coatings from Clickable PEG Nanogel Solutions: Benefits of Attachment under Salt-Induced Phase Separation Conditions and Comparison with PEG/Albumin Nanogel Coatings. <i>Langmuir</i> , 2013, 29, 4128-4139.	3.5	27
29	Homotypic cooperativity and collective binding are determinants of bHLH specificity and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16143-16152.	7.1	27
30	Accurate Typing of Human Leukocyte Antigen Class I Genes by Oxford Nanopore Sequencing. <i>Journal of Molecular Diagnostics</i> , 2018, 20, 428-435.	2.8	25
31	Dual threshold optimization and network inference reveal convergent evidence from TF binding locations and TF perturbation responses. <i>Genome Research</i> , 2020, 30, 459-471.	5.5	24
32	Novel markers of gonadectomy-induced adrenocortical neoplasia in the mouse and ferret. <i>Molecular and Cellular Endocrinology</i> , 2015, 399, 122-130.	3.2	23
33	Digital quantitative measurements of gene expression. <i>Biotechnology and Bioengineering</i> , 2004, 86, 117-124.	3.3	22
34	PDE7B Is a Novel, Prognostically Significant Mediator of Glioblastoma Growth Whose Expression Is Regulated by Endothelial Cells. <i>PLoS ONE</i> , 2014, 9, e107397.	2.5	22
35	Nanogel surface coatings for improved single-molecule imaging substrates. <i>Journal of the Royal Society Interface</i> , 2011, 8, 1400-1408.	3.4	20
36	Sensitive single-molecule protein quantification and protein complex detection in a microarray format. <i>Proteomics</i> , 2011, 11, 4731-4735.	2.2	19

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37	Parallel competition analysis of <i>Saccharomyces cerevisiae</i> strains differing by a single base using polymerase colonies. <i>Nucleic Acids Research</i> , 2003, 31, 84e-84.	14.5	17
38	A viral toolkit for recording transcription factor-DNA interactions in live mouse tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10003-10014.	7.1	17
39	Redesign of the monomer-monomer interface of Cre recombinase yields an obligate heterotetrameric complex. <i>Nucleic Acids Research</i> , 2015, 43, 9076-9085.	14.5	16
40	'Calling Cards' method for high-throughput identification of targets of yeast DNA-binding proteins. <i>Nature Protocols</i> , 2008, 3, 1569-1577.	12.0	14
41	Massively parallel single-nucleotide mutagenesis using reversibly terminated inosine. <i>Nature Methods</i> , 2016, 13, 923-924.	19.0	14
42	Origin and Consequences of the Relationship between Protein Mean and Variance. <i>PLoS ONE</i> , 2014, 9, e102202.	2.5	13
43	Toying with fate: Redirecting the differentiation of adrenocortical progenitor cells into gonadal-like tissue. <i>Molecular and Cellular Endocrinology</i> , 2015, 408, 165-177.	3.2	13
44	Transcription factor regulation and chromosome dynamics during pseudohyphal growth. <i>Molecular Biology of the Cell</i> , 2014, 25, 2669-2676.	2.1	11
45	Transposase mapping identifies the genomic targets of BAP1 in uveal melanoma. <i>BMC Medical Genomics</i> , 2018, 11, 97.	1.5	10
46	From karyotypes to precision genomics in 9p deletion and duplication syndromes. <i>Human Genetics and Genomics Advances</i> , 2022, 3, 100081.	1.7	9
47	Detection of Rare Genomic Variants from Pooled Sequencing Using SPLINTER. <i>Journal of Visualized Experiments</i> , 2012, , .	0.3	6
48	Mutation and expression analysis in medulloblastoma yields prognostic variants and a putative mechanism of disease for i17q tumors. <i>Acta Neuropathologica Communications</i> , 2014, 2, 74.	5.2	6
49	Synonymous ABCA3 Variants Do Not Increase Risk for Neonatal Respiratory Distress Syndrome. <i>Journal of Pediatrics</i> , 2014, 164, 1316-1321.e3.	1.8	6
50	Transposon Calling Cards. <i>Cold Spring Harbor Protocols</i> , 2016, 2016, pdb.top077776.	0.3	6
51	Quantitative analysis of transcription factor binding and expression using calling cards reporter arrays. <i>Nucleic Acids Research</i> , 2020, 48, e50-e50.	14.5	6
52	The qBED track: a novel genome browser visualization for point processes. <i>Bioinformatics</i> , 2021, 37, 1168-1170.	4.1	4
53	Calling Card Analysis in Budding Yeast. <i>Cold Spring Harbor Protocols</i> , 2016, 2016, pdb.prot086918.	0.3	2
54	Human L1 Transposition Dynamics Unraveled with Functional Data Analysis. <i>Molecular Biology and Evolution</i> , 2020, 37, 3576-3600.	8.9	2

#	ARTICLE	IF	CITATIONS
55	Single Cell RNAseq Uncovers a Robust Transcriptional Response to Morphine by Oligodendrocytes. SSRN Electronic Journal, 0, , .	0.4	0