

# Steven G. Rozen

## List of Publications by Year in descending order

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125  
papers

43,822  
citations

18436

62  
h-index

16605

123  
g-index

139  
all docs

139  
docs citations

139  
times ranked

64257  
citing authors

#	ARTICLE	IF	CITATIONS
1	Primer3 on the WWW for General Users and for Biologist Programmers. , 2000, 132, 365-386.		9,865
2	Primer3â€”new capabilities and interfaces. Nucleic Acids Research, 2012, 40, e115-e115.	6.5	7,501
3	Primer-BLAST: A tool to design target-specific primers for polymerase chain reaction. BMC Bioinformatics, 2012, 13, 134.	1.2	4,446
4	The repertoire of mutational signatures in human cancer. Nature, 2020, 578, 94-101.	13.7	2,104
5	Large-Scale Identification, Mapping, and Genotyping of Single-Nucleotide Polymorphisms in the Human Genome. Science, 1998, 280, 1077-1082.	6.0	1,993
6	The male-specific region of the human Y chromosome is a mosaic of discrete sequence classes. Nature, 2003, 423, 825-837.	13.7	1,887
7	Diverse spermatogenic defects in humans caused by Y chromosome deletions encompassing a novel RNAâ€”binding protein gene. Nature Genetics, 1995, 10, 383-393.	9.4	1,183
8	Whole-Genome and Epigenomic Landscapes of Etiologically Distinct Subtypes of Cholangiocarcinoma. Cancer Discovery, 2017, 7, 1116-1135.	7.7	637
9	The AZFc region of the Y chromosome features massive palindromes and uniform recurrent deletions in infertile men. Nature Genetics, 2001, 29, 279-286.	9.4	617
10	A comprehensive survey of genomic alterations in gastric cancer reveals systematic patterns of molecular exclusivity and co-occurrence among distinct therapeutic targets. Gut, 2012, 61, 673-684.	6.1	562
11	Exome sequencing of gastric adenocarcinoma identifies recurrent somatic mutations in cell adhesion and chromatin remodeling genes. Nature Genetics, 2012, 44, 570-574.	9.4	560
12	Mammalian Y chromosomes retain widely expressed dosage-sensitive regulators. Nature, 2014, 508, 494-499.	13.7	546
13	Abundant gene conversion between arms of palindromes in human and ape Y chromosomes. Nature, 2003, 423, 873-876.	13.7	540
14	The DAZ gene cluster on the human Y chromosome arose from an autosomal gene that was transposed, repeatedly amplified and pruned. Nature Genetics, 1996, 14, 292-299.	9.4	427
15	Exome sequencing identifies distinct mutational patterns in liver flukeâ€”related and non-infection-related bile duct cancers. Nature Genetics, 2013, 45, 1474-1478.	9.4	426
16	Exome sequencing of liver flukeâ€”associated cholangiocarcinoma. Nature Genetics, 2012, 44, 690-693.	9.4	412
17	Recombination between Palindromes P5 and P1 on the Human Y Chromosome Causes Massive Deletions and Spermatogenic Failure. American Journal of Human Genetics, 2002, 71, 906-922.	2.6	410
18	Polymorphism for a 1.6-Mb deletion of the human Y chromosome persists through balance between recurrent mutation and haploid selection. Nature Genetics, 2003, 35, 247-251.	9.4	399

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19	Chimpanzee and human Y chromosomes are remarkably divergent in structure and gene content. <i>Nature</i> , 2010, 463, 536-539.	13.7	381
20	Identification of Molecular Subtypes of Gastric Cancer With Different Responses to PI3-Kinase Inhibitors and 5-Fluorouracil. <i>Gastroenterology</i> , 2013, 145, 554-565.	0.6	381
21	Metabolomics in Early Alzheimer's Disease: Identification of Altered Plasma Sphingolipidome Using Shotgun Lipidomics. <i>PLoS ONE</i> , 2011, 6, e21643.	1.1	367
22	Integrative Analysis of Head and Neck Cancer Identifies Two Biologically Distinct HPV and Three Non-HPV Subtypes. <i>Clinical Cancer Research</i> , 2015, 21, 870-881.	3.2	303
23	Sequencing the Mouse Y Chromosome Reveals Convergent Gene Acquisition and Amplification on Both Sex Chromosomes. <i>Cell</i> , 2014, 159, 800-813.	13.5	291
24	Aristolochic acids and their derivatives are widely implicated in liver cancers in Taiwan and throughout Asia. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	272
25	Strict evolutionary conservation followed rapid gene loss on human and rhesus Y chromosomes. <i>Nature</i> , 2012, 483, 82-86.	13.7	245
26	A physical map of the human Y chromosome. <i>Nature</i> , 2001, 409, 943-945.	13.7	239
27	High mutation rates have driven extensive structural polymorphism among human Y chromosomes. <i>Nature Genetics</i> , 2006, 38, 463-467.	9.4	237
28	Janus Kinase 3 "Activating Mutations Identified in Natural Killer/T-cell Lymphoma. <i>Cancer Discovery</i> , 2012, 2, 591-597.	7.7	236
29	Genome-Wide Mutational Signatures of Aristolochic Acid and Its Application as a Screening Tool. <i>Science Translational Medicine</i> , 2013, 5, 197ra101.	5.8	233
30	Nucleus-Translocated ACSS2 Promotes Gene Transcription for Lysosomal Biogenesis and Autophagy. <i>Molecular Cell</i> , 2017, 66, 684-697.e9.	4.5	227
31	Convergent evolution of chicken Z and human X chromosomes by expansion and gene acquisition. <i>Nature</i> , 2010, 466, 612-616.	13.7	210
32	A family of human Y chromosomes has dispersed throughout northern Eurasia despite a 1.8-Mb deletion in the azoospermia factor c region. <i>Genomics</i> , 2004, 83, 1046-1052.	1.3	196
33	Angiopoietin receptor TEK mutations underlie primary congenital glaucoma with variable expressivity. <i>Journal of Clinical Investigation</i> , 2016, 126, 2575-2587.	3.9	175
34	Genomic and Epigenomic Profiling of High-Risk Intestinal Metaplasia Reveals Molecular Determinants of Progression to Gastric Cancer. <i>Cancer Cell</i> , 2018, 33, 137-150.e5.	7.7	175
35	Exome sequencing identifies highly recurrent MED12 somatic mutations in breast fibroadenoma. <i>Nature Genetics</i> , 2014, 46, 877-880.	9.4	172
36	Genomic landscapes of breast fibroepithelial tumors. <i>Nature Genetics</i> , 2015, 47, 1341-1345.	9.4	167

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37	Loss of tumor suppressor KDM6A amplifies PRC2-regulated transcriptional repression in bladder cancer and can be targeted through inhibition of EZH2. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	165
38	Methylation Subtypes and Large-Scale Epigenetic Alterations in Gastric Cancer. <i>Science Translational Medicine</i> , 2012, 4, 156ra140.	5.8	163
39	SigProfilerMatrixGenerator: a tool for visualizing and exploring patterns of small mutational events. <i>BMC Genomics</i> , 2019, 20, 685.	1.2	162
40	Metabolomic analysis and signatures in motor neuron disease. <i>Metabolomics</i> , 2005, 1, 101-108.	1.4	152
41	Conservation of Y-linked genes during human evolution revealed by comparative sequencing in chimpanzee. <i>Nature</i> , 2005, 437, 100-103.	13.7	151
42	The draft genome of tropical fruit durian ( <i>Durio zibethinus</i> ). <i>Nature Genetics</i> , 2017, 49, 1633-1641.	9.4	150
43	Regulatory crosstalk between lineage-survival oncogenes <i>KLF5</i> , <i>GATA4</i> and <i>GATA6</i> cooperatively promotes gastric cancer development. <i>Gut</i> , 2015, 64, 707-719.	6.1	148
44	<i>TEX11</i> is mutated in infertile men with azoospermia and regulates genome-wide recombination rates in mouse. <i>EMBO Molecular Medicine</i> , 2015, 7, 1198-1210.	3.3	145
45	Metabolomic changes in autopsy-confirmed Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2011, 7, 309-317.	0.4	132
46	ADAR-Mediated RNA Editing Predicts Progression and Prognosis of Gastric Cancer. <i>Gastroenterology</i> , 2016, 151, 637-650.e10.	0.6	127
47	In-depth characterization of the cisplatin mutational signature in human cell lines and in esophageal and liver tumors. <i>Genome Research</i> , 2018, 28, 654-665.	2.4	126
48	Epigenomic profiling of primary gastric adenocarcinoma reveals super-enhancer heterogeneity. <i>Nature Communications</i> , 2016, 7, 12983.	5.8	123
49	AZFc Deletions and Spermatogenic Failure: A Population-Based Survey of 20,000 Y Chromosomes. <i>American Journal of Human Genetics</i> , 2012, 91, 890-896.	2.6	113
50	MSIseq: Software for Assessing Microsatellite Instability from Catalogs of Somatic Mutations. <i>Scientific Reports</i> , 2015, 5, 13321.	1.6	113
51	<i>VHL</i> Deficiency Drives Enhancer Activation of Oncogenes in Clear Cell Renal Cell Carcinoma. <i>Cancer Discovery</i> , 2017, 7, 1284-1305.	7.7	111
52	Genomics and Genetics of Human and Primate Y Chromosomes. <i>Annual Review of Genomics and Human Genetics</i> , 2012, 13, 83-108.	2.5	90
53	Genome-scale mutational signatures of aflatoxin in cells, mice, and human tumors. <i>Genome Research</i> , 2017, 27, 1475-1486.	2.4	90
54	Mutation signatures implicate aristolochic acid in bladder cancer development. <i>Genome Medicine</i> , 2015, 7, 38.	3.6	87

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55	Whole-Exome Sequencing Studies of Parathyroid Carcinomas Reveal Novel <i>PRUNE2</i> Mutations, Distinctive Mutational Spectra Related to APOBEC-Catalyzed DNA Mutagenesis and Mutational Enrichment in Kinases Associated With Cell Migration and Invasion. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, E360-E364.	1.8	86
56	Lipidomics identifies a requirement for peroxisomal function during influenza virus replication. <i>Journal of Lipid Research</i> , 2014, 55, 1357-1365.	2.0	84
57	Mutation signatures of carcinogen exposure: genome-wide detection and new opportunities for cancer prevention. <i>Genome Medicine</i> , 2014, 6, 24.	3.6	75
58	Genetic and Structural Variation in the Gastric Cancer Kinome Revealed through Targeted Deep Sequencing. <i>Cancer Research</i> , 2011, 71, 29-39.	0.4	74
59	Mutational landscapes of tongue carcinoma reveal recurrent mutations in genes of therapeutic and prognostic relevance. <i>Genome Medicine</i> , 2015, 7, 98.	3.6	74
60	Nanoscale chromatin profiling of gastric adenocarcinoma reveals cancer-associated cryptic promoters and somatically acquired regulatory elements. <i>Nature Communications</i> , 2014, 5, 4361.	5.8	72
61	Alterations in tryptophan and purine metabolism in cocaine addiction: a metabolomic study. <i>Psychopharmacology</i> , 2009, 206, 479-489.	1.5	70
62	Host Cell Transcriptome Profile during Wild-Type and Attenuated Dengue Virus Infection. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2107.	1.3	68
63	MiRNA-128 regulates the proliferation and neurogenesis of neural precursors by targeting PCM1 in the developing cortex. <i>ELife</i> , 2016, 5, .	2.8	67
64	Quantitative Chromatographic Estimation of $\pm$ -Amino-Acids. <i>Nature</i> , 1948, 161, 763-763.	13.7	66
65	CYP1B1, MYOC, and LTBP2 Mutations in Primary Congenital Glaucoma Patients in the United States. <i>American Journal of Ophthalmology</i> , 2013, 155, 508-517.e5.	1.7	66
66	<i>TP53</i> Genomic Status Regulates Sensitivity of Gastric Cancer Cells to the Histone Methylation Inhibitor 3-Deazaneplanocin A (DZNep). <i>Clinical Cancer Research</i> , 2012, 18, 4201-4212.	3.2	65
67	Individualised multiplexed circulating tumour DNA assays for monitoring of tumour presence in patients after colorectal cancer surgery. <i>Scientific Reports</i> , 2017, 7, 40737.	1.6	62
68	Wnts synergize to activate $\beta$ -catenin signaling. <i>Journal of Cell Science</i> , 2017, 130, 1532-1544.	1.2	58
69	Experimental and pan-cancer genome analyses reveal widespread contribution of acrylamide exposure to carcinogenesis in humans. <i>Genome Research</i> , 2019, 29, 521-531.	2.4	57
70	Beyond fitness tracking: The use of consumer-grade wearable data from normal volunteers in cardiovascular and lipidomics research. <i>PLoS Biology</i> , 2018, 16, e2004285.	2.6	57
71	Exome-wide Sequencing Shows Low Mutation Rates and Identifies Novel Mutated Genes in Seminomas. <i>European Urology</i> , 2015, 68, 77-83.	0.9	56
72	Opioid use affects antioxidant activity and purine metabolism: preliminary results. <i>Human Psychopharmacology</i> , 2009, 24, 666-675.	0.7	52

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73	<i>SETD2</i> histone modifier loss in aggressive GI stromal tumours. <i>Gut</i> , 2016, 65, 1960-1972.	6.1	49
74	Improving Indel Detection Specificity of the Ion Torrent PGM Benchtop Sequencer. <i>PLoS ONE</i> , 2012, 7, e45798.	1.1	48
75	Epigenomic Promoter Alterations Amplify Gene Isoform and Immunogenic Diversity in Gastric Adenocarcinoma. <i>Cancer Discovery</i> , 2017, 7, 630-651.	7.7	48
76	Inherited breast cancer predisposition in Asians: multigene panel testing outcomes from Singapore. <i>Npj Genomic Medicine</i> , 2016, 1, 15003.	1.7	44
77	High-depth sequencing of over 750 genes supports linear progression of primary tumors and metastases in most patients with liver-limited metastatic colorectal cancer. <i>Genome Biology</i> , 2015, 16, 32.	3.8	42
78	Remarkably Little Variation in Proteins Encoded by the Y Chromosome's Single-Copy Genes, Implying Effective Purifying Selection. <i>American Journal of Human Genetics</i> , 2009, 85, 923-928.	2.6	39
79	Multiregion ultra-deep sequencing reveals early intermixing and variable levels of intratumoral heterogeneity in colorectal cancer. <i>Molecular Oncology</i> , 2017, 11, 124-139.	2.1	38
80	HoxC5 and miR-615-3p target newly evolved genomic regions to repress hTERT and inhibit tumorigenesis. <i>Nature Communications</i> , 2018, 9, 100.	5.8	38
81	Differential pulmonary transcriptomic profiles in murine lungs infected with low and highly virulent influenza H3N2 viruses reveal dysregulation of TREM1 signaling, cytokines, and chemokines. <i>Functional and Integrative Genomics</i> , 2012, 12, 105-117.	1.4	37
82	Evaluation and optimisation of indel detection workflows for ion torrent sequencing of the BRCA1 and BRCA2 genes. <i>BMC Genomics</i> , 2014, 15, 516.	1.2	36
83	Integrated paired-end enhancer profiling and whole-genome sequencing reveals recurrent <i>CCNE1</i> and <i>IGF2</i> enhancer hijacking in primary gastric adenocarcinoma. <i>Gut</i> , 2020, 69, 1039-1052.	6.1	36
84	Massively Parallel Sequencing of Patients with Intellectual Disability, Congenital Anomalies and/or Autism Spectrum Disorders with a Targeted Gene Panel. <i>PLoS ONE</i> , 2014, 9, e93409.	1.1	35
85	Lack of Targetable FGFR2 Fusions in Endemic Fluke-Associated Cholangiocarcinoma. <i>JCO Global Oncology</i> , 2020, 6, 628-638.	0.8	35
86	Pathogenesis of cholangiocarcinoma: From genetics to signalling pathways. <i>Bailliere's Best Practice and Research in Clinical Gastroenterology</i> , 2015, 29, 233-244.	1.0	34
87	Digital phenotyping by consumer wearables identifies sleep-associated markers of cardiovascular disease risk and biological aging. <i>Communications Biology</i> , 2019, 2, 361.	2.0	34
88	Fanconi anemia gene variants in therapy-related myeloid neoplasms. <i>Blood Cancer Journal</i> , 2015, 5, e323-e323.	2.8	32
89	Characterization of colibactin-associated mutational signature in an Asian oral squamous cell carcinoma and in other mucosal tumor types. <i>Genome Research</i> , 2020, 30, 803-813.	2.4	32
90	The mutational landscape of early and typical onset oral tongue squamous cell carcinoma. <i>Cancer</i> , 2021, 127, 544-553.	2.0	27

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91	Exome sequencing reveals recurrent REV3L mutations in cisplatin-resistant squamous cell carcinoma of head and neck. <i>Scientific Reports</i> , 2016, 6, 19552.	1.6	26
92	Are Sequence Family Variants Useful for Identifying Deletions in the Human Y Chromosome?. <i>American Journal of Human Genetics</i> , 2004, 75, 514-517.	2.6	24
93	Global rewiring of p53 transcription regulation by the hepatitis B virus X protein. <i>Molecular Oncology</i> , 2016, 10, 1183-1195.	2.1	23
94	A tumor-associated splice-isoform of <i>MAP2K7</i> drives dedifferentiation in MBNL1-low cancers via JNK activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16391-16400.	3.3	23
95	Distinct Responses of Stem Cells to Telomere Uncapping—A Potential Strategy to Improve the Safety of Cell Therapy. <i>Stem Cells</i> , 2016, 34, 2471-2484.	1.4	22
96	Recurrent mutations in topoisomerase III $\alpha$ cause a previously undescribed mutator phenotype in human cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	22
97	NOTUM is a potential pharmacodynamic biomarker of Wnt pathway inhibition. <i>Oncotarget</i> , 2016, 7, 12386-12392.	0.8	20
98	First somatic mutation of E2F1 in a critical DNA binding residue discovered in well-differentiated papillary mesothelioma of the peritoneum. <i>Genome Biology</i> , 2011, 12, R96.	13.9	19
99	Family history assessment significantly enhances delivery of precision medicine in the genomics era. <i>Genome Medicine</i> , 2021, 13, 3.	3.6	19
100	Implementation of genomics in medical practice to deliver precision medicine for an Asian population. <i>Npj Genomic Medicine</i> , 2019, 4, 12.	1.7	17
101	NanoString expression profiling identifies candidate biomarkers of RAD001 response in metastatic gastric cancer. <i>ESMO Open</i> , 2016, 1, e000009.	2.0	16
102	A formalin-fixed paraffin-embedded (FFPE)-based prognostic signature to predict metastasis in clinically low risk stage I/II microsatellite stable colorectal cancer. <i>Cancer Letters</i> , 2017, 403, 13-20.	3.2	16
103	Functional genomics identifies specific vulnerabilities in PTEN-deficient breast cancer. <i>Breast Cancer Research</i> , 2018, 20, 22.	2.2	15
104	SRSF1 mediates cytokine-induced impaired imatinib sensitivity in chronic myeloid leukemia. <i>Leukemia</i> , 2020, 34, 1787-1798.	3.3	12
105	Genomic and epigenomic EBF1 alterations modulate TERT expression in gastric cancer. <i>Journal of Clinical Investigation</i> , 2020, 130, 3005-3020.	3.9	12
106	Transcription-associated mutation of lasR in <i>Pseudomonas aeruginosa</i> . <i>DNA Repair</i> , 2016, 46, 9-19.	1.3	11
107	Enhancer-derived long non-coding RNAs CCAT1 and CCAT2 at rs6983267 has limited predictability for early stage colorectal carcinoma metastasis. <i>Scientific Reports</i> , 2021, 11, 404.	1.6	11
108	Abundant copy-number loss of CYCLOPS and STOP genes in gastric adenocarcinoma. <i>Gastric Cancer</i> , 2016, 19, 453-465.	2.7	9

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109	Amenable epigenetic traits of dental pulp stem cells underlie high capability of xeno-free episomal reprogramming. <i>Stem Cell Research and Therapy</i> , 2018, 9, 68.	2.4	9
110	Toward clinical understanding of aristolochic acid upper-tract urothelial carcinoma. <i>Theranostics</i> , 2020, 10, 5578-5580.	4.6	9
111	Experimental Delineation of Mutational Signatures Is an Essential Tool in Cancer Epidemiology and Prevention. <i>Chemical Research in Toxicology</i> , 2019, 32, 2153-2155.	1.7	8
112	Mutational selection in normal urothelium. <i>Science</i> , 2020, 370, 34-35.	6.0	7
113	Assessing Matched Normal and Tumor Pairs in Next-Generation Sequencing Studies. <i>PLoS ONE</i> , 2011, 6, e17810.	1.1	7
114	Accuracy of mutational signature software on correlated signatures. <i>Scientific Reports</i> , 2022, 12, 390.	1.6	6
115	Has the chimpanzee Y chromosome been sequenced?. <i>Nature Genetics</i> , 2006, 38, 853-854.	9.4	5
116	Defending Male Fertility. <i>Science Translational Medicine</i> , 2011, 3, 92ps31.	5.8	5
117	Regionally-Specified Second Trimester Fetal Neural Stem Cells Reveals Differential Neurogenic Programming. <i>PLoS ONE</i> , 2014, 9, e105985.	1.1	5
118	DNA epigenetic signature predictive of benefit from neoadjuvant chemotherapy in oesophageal adenocarcinoma: results from the MRC OE02 trial. <i>European Journal of Cancer</i> , 2019, 123, 48-57.	1.3	5
119	Whole exome sequencing identifies clinically relevant mutational signatures in resected hepatocellular carcinoma. <i>Liver Cancer International</i> , 2020, 1, 25-35.	0.2	5
120	A functional network of gastric-cancer-associated splicing events controlled by dysregulated splicing factors. <i>NAR Genomics and Bioinformatics</i> , 2020, 2, lqaa013.	1.5	5
121	Genetic characterization of a missense mutation in the X-linked <i>TAF7L</i> gene identified in an oligozoospermic man. <i>Biology of Reproduction</i> , 2022, 107, 157-167.	1.2	4
122	Mutational processes in cancer preferentially affect binding of particular transcription factors. <i>Scientific Reports</i> , 2021, 11, 3339.	1.6	2
123	Molecular Genetics of Renal Cell Carcinoma. , 2017, , 83-103.		1
124	Wnt proteins synergize to activate $\beta$ -catenin signaling. <i>Development (Cambridge)</i> , 2017, 144, e1.1-e1.1.	1.2	1
125	Genome-Scale Technologies Foster Advances in Neurological and Behavioral Research. <i>Current Psychiatry Reviews</i> , 2010, 6, 74-81.	0.9	0