

# Michael R Stratton

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

127  
papers

67,304  
citations

82  
h-index

134  
g-index

134  
ext. papers

81,361  
ext. citations

32.2  
avg, IF

7.03  
L-index

#	Paper	IF	Citations
127	Somatic mutation rates scale with lifespan across mammals.. <i>Nature</i> , <b>2022</b> ,	50.4	9
126	Mutational landscape of normal epithelial cells in Lynch Syndrome patients.. <i>Nature Communications</i> , <b>2022</b> , 13, 2710	17.4	1
125	Mapping the temporal and spatial dynamics of the human endometrium in vivo and in vitro. <i>Nature Genetics</i> , <b>2021</b> , 53, 1698-1711	36.3	32
124	Mutational signatures in esophageal squamous cell carcinoma from eight countries with varying incidence. <i>Nature Genetics</i> , <b>2021</b> , 53, 1553-1563	36.3	12
123	Convergent somatic mutations in metabolism genes in chronic liver disease. <i>Nature</i> , <b>2021</b> , 598, 473-478	50.4	10
122	Somatic mutation landscapes at single-molecule resolution. <i>Nature</i> , <b>2021</b> , 593, 405-410	50.4	57
121	Mutagenicity of 2-hydroxyamino-1-methyl-6-phenylimidazo[4,5-b]pyridine (N-OH-PhIP) in human TP53 knock-in (Hupki) mouse embryo fibroblasts. <i>Food and Chemical Toxicology</i> , <b>2021</b> , 147, 111855	4.7	3
120	Development, maturation, and maintenance of human prostate inferred from somatic mutations. <i>Cell Stem Cell</i> , <b>2021</b> , 28, 1262-1274.e5	18	7
119	Extensive phylogenies of human development inferred from somatic mutations. <i>Nature</i> , <b>2021</b> , 597, 387-394	50.4	21
118	The mutational landscape of human somatic and germline cells. <i>Nature</i> , <b>2021</b> , 597, 381-386	50.4	32
117	Increased somatic mutation burdens in normal human cells due to defective DNA polymerases. <i>Nature Genetics</i> , <b>2021</b> , 53, 1434-1442	36.3	13
116	Tobacco smoking and somatic mutations in human bronchial epithelium. <i>Nature</i> , <b>2020</b> , 578, 266-272	50.4	150
115	The repertoire of mutational signatures in human cancer. <i>Nature</i> , <b>2020</b> , 578, 94-101	50.4	849
114	Extensive heterogeneity in somatic mutation and selection in the human bladder. <i>Science</i> , <b>2020</b> , 370, 75-82	33.3	67
113	Evolution and lineage dynamics of a transmissible cancer in Tasmanian devils. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000926	9.7	10
112	Somatic Evolution in Non-neoplastic IBD-Affected Colon. <i>Cell</i> , <b>2020</b> , 182, 672-684.e11	56.2	50
111	Tissue-Biased Expansion of DNMT3A-Mutant Clones in a Mosaic Individual Is Associated with Conserved Epigenetic Erosion. <i>Cell Stem Cell</i> , <b>2020</b> , 27, 326-335.e4	18	11

110	Mutagenicity of acrylamide and glycidamide in human TP53 knock-in (Hupki) mouse embryo fibroblasts. <i>Archives of Toxicology</i> , <b>2020</b> , 94, 4173-4196	5.8	9
109	The mutational landscape of normal human endometrial epithelium. <i>Nature</i> , <b>2020</b> , 580, 640-646	50.4	148
108	SigProfilerMatrixGenerator: a tool for visualizing and exploring patterns of small mutational events. <i>BMC Genomics</i> , <b>2019</b> , 20, 685	4.5	56
107	Partially methylated domains are hypervariable in breast cancer and fuel widespread CpG island hypermethylation. <i>Nature Communications</i> , <b>2019</b> , 10, 1749	17.4	19
106	Characterizing Mutational Signatures in Human Cancer Cell Lines Reveals Episodic APOBEC Mutagenesis. <i>Cell</i> , <b>2019</b> , 176, 1282-1294.e20	56.2	165
105	Somatic evolution and global expansion of an ancient transmissible cancer lineage. <i>Science</i> , <b>2019</b> , 365,	33.3	31
104	Abstract 970: The mutational landscape of normal human endometrial epithelium <b>2019</b> ,		4
103	Embryonal precursors of Wilms tumor. <i>Science</i> , <b>2019</b> , 366, 1247-1251	33.3	40
102	Somatic mutations and clonal dynamics in healthy and cirrhotic human liver. <i>Nature</i> , <b>2019</b> , 574, 538-542	50.4	120
101	The landscape of somatic mutation in normal colorectal epithelial cells. <i>Nature</i> , <b>2019</b> , 574, 532-537	50.4	217
100	Intra-tumour diversification in colorectal cancer at the single-cell level. <i>Nature</i> , <b>2018</b> , 556, 457-462	50.4	294
99	Alcohol and endogenous aldehydes damage chromosomes and mutate stem cells. <i>Nature</i> , <b>2018</b> , 553, 171-177	50.4	183
98	Somatic mutant clones colonize the human esophagus with age. <i>Science</i> , <b>2018</b> , 362, 911-917	33.3	465
97	Population dynamics of normal human blood inferred from somatic mutations. <i>Nature</i> , <b>2018</b> , 561, 473-478	50.4	245
96	The genomic landscape of cutaneous SCC reveals drivers and a novel azathioprine associated mutational signature. <i>Nature Communications</i> , <b>2018</b> , 9, 3667	17.4	121
95	Recurrent mutation of IGF signalling genes and distinct patterns of genomic rearrangement in osteosarcoma. <i>Nature Communications</i> , <b>2017</b> , 8, 15936	17.4	125
94	Somatic mutations reveal asymmetric cellular dynamics in the early human embryo. <i>Nature</i> , <b>2017</b> , 543, 714-718	50.4	157
93	Pan-cancer analysis of homozygous deletions in primary tumours uncovers rare tumour suppressors. <i>Nature Communications</i> , <b>2017</b> , 8, 1221	17.4	40

92	Universal Patterns of Selection in Cancer and Somatic Tissues. <i>Cell</i> , <b>2017</b> , 171, 1029-1041.e21	56.2	576
91	Short inverted repeats contribute to localized mutability in human somatic cells. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, 11213-11221	20.1	11
90	Genomic Evolution of Breast Cancer Metastasis and Relapse. <i>Cancer Cell</i> , <b>2017</b> , 32, 169-184.e7	24.3	346
89	The International Human Epigenome Consortium: A Blueprint for Scientific Collaboration and Discovery. <i>Cell</i> , <b>2016</b> , 167, 1145-1149	56.2	232
88	Mutation allele burden remains unchanged in chronic myelomonocytic leukaemia responding to hypomethylating agents. <i>Nature Communications</i> , <b>2016</b> , 7, 10767	17.4	140
87	The topography of mutational processes in breast cancer genomes. <i>Nature Communications</i> , <b>2016</b> , 7, 11383	17.4	172
86	Mutational signatures associated with tobacco smoking in human cancer. <i>Science</i> , <b>2016</b> , 354, 618-622	33.3	562
85	Timing, rates and spectra of human germline mutation. <i>Nature Genetics</i> , <b>2016</b> , 48, 126-133	36.3	338
84	A Landscape of Pharmacogenomic Interactions in Cancer. <i>Cell</i> , <b>2016</b> , 166, 740-754	56.2	892
83	Landscape of somatic mutations in 560 breast cancer whole-genome sequences. <i>Nature</i> , <b>2016</b> , 534, 47-54	50.4	1193
82	Tissue-specific mutation accumulation in human adult stem cells during life. <i>Nature</i> , <b>2016</b> , 538, 260-264	50.4	523
81	Direct Transcriptional Consequences of Somatic Mutation in Breast Cancer. <i>Cell Reports</i> , <b>2016</b> , 16, 2032-46	46.6	30
80	Subclonal diversification of primary breast cancer revealed by multiregion sequencing. <i>Nature Medicine</i> , <b>2015</b> , 21, 751-9	50.5	521
79	Prospective derivation of a living organoid biobank of colorectal cancer patients. <i>Cell</i> , <b>2015</b> , 161, 933-45	56.2	1215
78	Exome sequencing of hepatocellular carcinomas identifies new mutational signatures and potential therapeutic targets. <i>Nature Genetics</i> , <b>2015</b> , 47, 505-511	36.3	956
77	A mutational signature in gastric cancer suggests therapeutic strategies. <i>Nature Communications</i> , <b>2015</b> , 6, 8683	17.4	103
76	The genome as a record of environmental exposure. <i>Mutagenesis</i> , <b>2015</b> , 30, 763-70	2.8	115
75	COSMIC: exploring the world's knowledge of somatic mutations in human cancer. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, D805-11	20.1	1795

74	Clock-like mutational processes in human somatic cells. <i>Nature Genetics</i> , <b>2015</b> , 47, 1402-7	36.3	531
73	Tumor evolution. High burden and pervasive positive selection of somatic mutations in normal human skin. <i>Science</i> , <b>2015</b> , 348, 880-6	33.3	983
72	Mutational signatures: the patterns of somatic mutations hidden in cancer genomes. <i>Current Opinion in Genetics and Development</i> , <b>2014</b> , 24, 52-60	4.9	299
71	Constitutional and somatic rearrangement of chromosome 21 in acute lymphoblastic leukaemia. <i>Nature</i> , <b>2014</b> , 508, 98-102	50.4	192
70	Transmissible [corrected] dog cancer genome reveals the origin and history of an ancient cell lineage. <i>Science</i> , <b>2014</b> , 343, 437-440	33.3	116
69	Mobile DNA in cancer. Extensive transduction of nonrepetitive DNA mediated by L1 retrotransposition in cancer genomes. <i>Science</i> , <b>2014</b> , 345, 1251343	33.3	250
68	Association of a germline copy number polymorphism of APOBEC3A and APOBEC3B with burden of putative APOBEC-dependent mutations in breast cancer. <i>Nature Genetics</i> , <b>2014</b> , 46, 487-91	36.3	208
67	Genome sequencing of normal cells reveals developmental lineages and mutational processes. <i>Nature</i> , <b>2014</b> , 513, 422-425	50.4	249
66	Origins and functional consequences of somatic mitochondrial DNA mutations in human cancer. <i>ELife</i> , <b>2014</b> , 3,	8.9	229
65	Processed pseudogenes acquired somatically during cancer development. <i>Nature Communications</i> , <b>2014</b> , 5, 3644	17.4	68
64	<i>C. elegans</i> whole-genome sequencing reveals mutational signatures related to carcinogens and DNA repair deficiency. <i>Genome Research</i> , <b>2014</b> , 24, 1624-36	9.7	125
63	Signatures of mutational processes in human cancer. <i>Nature</i> , <b>2013</b> , 500, 415-21	50.4	5895
62	Deciphering signatures of mutational processes operative in human cancer. <i>Cell Reports</i> , <b>2013</b> , 3, 246-59	10.6	725
61	Single-cell paired-end genome sequencing reveals structural variation per cell cycle. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 6119-38	20.1	125
60	Genome-wide mutational signatures of aristolochic acid and its application as a screening tool. <i>Science Translational Medicine</i> , <b>2013</b> , 5, 197ra101	17.5	194
59	Clinical and biological implications of driver mutations in myelodysplastic syndromes. <i>Blood</i> , <b>2013</b> , 122, 3616-27; quiz 3699	2.2	1169
58	Journeys into the genome of cancer cells. <i>EMBO Molecular Medicine</i> , <b>2013</b> , 5, 169-72	12	21
57	Genomics of Drug Sensitivity in Cancer (GDSC): a resource for therapeutic biomarker discovery in cancer cells. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, D955-61	20.1	1163

56	DNA deaminases induce break-associated mutation showers with implication of APOBEC3B and 3A in breast cancer kataegis. <i>ELife</i> , <b>2013</b> , 2, e00534	8.9	246
55	The landscape of cancer genes and mutational processes in breast cancer. <i>Nature</i> , <b>2012</b> , 486, 400-4	50.4	1264
54	Mutational processes molding the genomes of 21 breast cancers. <i>Cell</i> , <b>2012</b> , 149, 979-93	56.2	1279
53	The life history of 21 breast cancers. <i>Cell</i> , <b>2012</b> , 149, 994-1007	56.2	979
52	Systematic identification of genomic markers of drug sensitivity in cancer cells. <i>Nature</i> , <b>2012</b> , 483, 570-5	50.4	1699
51	Genomics and the continuum of cancer care. <i>New England Journal of Medicine</i> , <b>2011</b> , 364, 340-50	59.2	247
50	Massive genomic rearrangement acquired in a single catastrophic event during cancer development. <i>Cell</i> , <b>2011</b> , 144, 27-40	56.2	1628
49	Exploring the genomes of cancer cells: progress and promise. <i>Science</i> , <b>2011</b> , 331, 1553-8	33.3	488
48	Exome sequencing identifies frequent mutation of the SWI/SNF complex gene PBRM1 in renal carcinoma. <i>Nature</i> , <b>2011</b> , 469, 539-42	50.4	943
47	A small-cell lung cancer genome with complex signatures of tobacco exposure. <i>Nature</i> , <b>2010</b> , 463, 184-9	50.4	852
46	A comprehensive catalogue of somatic mutations from a human cancer genome. <i>Nature</i> , <b>2010</b> , 463, 191-6	50.4	1303
45	Systematic sequencing of renal carcinoma reveals inactivation of histone modifying genes. <i>Nature</i> , <b>2010</b> , 463, 360-3	50.4	927
44	Signatures of mutation and selection in the cancer genome. <i>Nature</i> , <b>2010</b> , 463, 893-8	50.4	538
43	International network of cancer genome projects. <i>Nature</i> , <b>2010</b> , 464, 993-8	50.4	1613
42	The patterns and dynamics of genomic instability in metastatic pancreatic cancer. <i>Nature</i> , <b>2010</b> , 467, 1109-13	50.4	1013
41	A census of amplified and overexpressed human cancer genes. <i>Nature Reviews Cancer</i> , <b>2010</b> , 10, 59-64	31.3	415
40	Use of cancer-specific genomic rearrangements to quantify disease burden in plasma from patients with solid tumors. <i>Genes Chromosomes and Cancer</i> , <b>2010</b> , 49, 1062-9	5	161
39	The cancer genome. <i>Nature</i> , <b>2009</b> , 458, 719-24	50.4	2272

38	Complex landscapes of somatic rearrangement in human breast cancer genomes. <i>Nature</i> , <b>2009</b> , 462, 1005-10	50.4	684
37	Somatic mutations of the histone H3K27 demethylase gene UTX in human cancer. <i>Nature Genetics</i> , <b>2009</b> , 41, 521-3	36.3	627
36	Genome resequencing and genetic variation. <i>Nature Biotechnology</i> , <b>2008</b> , 26, 65-6	44.5	50
35	Identification of somatically acquired rearrangements in cancer using genome-wide massively parallel paired-end sequencing. <i>Nature Genetics</i> , <b>2008</b> , 40, 722-9	36.3	666
34	Subclonal phylogenetic structures in cancer revealed by ultra-deep sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 13081-6	11.5	283
33	In vitro differential sensitivity of melanomas to phenothiazines is based on the presence of codon 600 BRAF mutation. <i>Molecular Cancer Therapeutics</i> , <b>2008</b> , 7, 1337-46	6.1	10
32	Loss of the mismatch repair protein MSH6 in human glioblastomas is associated with tumor progression during temozolomide treatment. <i>Clinical Cancer Research</i> , <b>2007</b> , 13, 2038-45	12.9	318
31	Patterns of somatic mutation in human cancer genomes. <i>Nature</i> , <b>2007</b> , 446, 153-8	50.4	2400
30	Architectures of somatic genomic rearrangement in human cancer amplicons at sequence-level resolution. <i>Genome Research</i> , <b>2007</b> , 17, 1296-303	9.7	152
29	JAK2 exon 12 mutations in polycythemia vera and idiopathic erythrocytosis. <i>New England Journal of Medicine</i> , <b>2007</b> , 356, 459-68	59.2	996
28	Statistical analysis of pathogenicity of somatic mutations in cancer. <i>Genetics</i> , <b>2006</b> , 173, 2187-98	4	125
27	A hypermutation phenotype and somatic MSH6 mutations in recurrent human malignant gliomas after alkylator chemotherapy. <i>Cancer Research</i> , <b>2006</b> , 66, 3987-91	10.1	328
26	Mutation analysis of 24 known cancer genes in the NCI-60 cell line set. <i>Molecular Cancer Therapeutics</i> , <b>2006</b> , 5, 2606-12	6.1	322
25	A screen of the complete protein kinase gene family identifies diverse patterns of somatic mutations in human breast cancer. <i>Nature Genetics</i> , <b>2005</b> , 37, 590-2	36.3	289
24	Somatic mutations of the protein kinase gene family in human lung cancer. <i>Cancer Research</i> , <b>2005</b> , 65, 7591-5	10.1	392
23	A census of human cancer genes. <i>Nature Reviews Cancer</i> , <b>2004</b> , 4, 177-83	31.3	2424
22	Lung cancer: intragenic ERBB2 kinase mutations in tumours. <i>Nature</i> , <b>2004</b> , 431, 525-6	50.4	655
21	High-resolution analysis of DNA copy number using oligonucleotide microarrays. <i>Genome Research</i> , <b>2004</b> , 14, 287-95	9.7	288

20	Mutations of the BRAF gene in human cancer. <i>Nature</i> , <b>2002</b> , 417, 949-54	50.4	7962
19	Identification of the breast cancer susceptibility gene BRCA2. <i>Nature</i> , <b>1995</b> , 378, 789-92	50.4	2780
18	Localization of a breast cancer susceptibility gene, BRCA2, to chromosome 13q12-13. <i>Science</i> , <b>1994</b> , 265, 2088-90	33.3	1480
17	Inherited MUTYH mutations cause elevated somatic mutation rates and distinctive mutational signatures in normal human cells		1
16	Comprehensive Analysis of Indels in Whole-genome Microsatellite Regions and Microsatellite Instability across 21 Cancer Types		1
15	Mutational signatures associated with tobacco smoking in human cancer		4
14	Universal patterns of selection in cancer and somatic tissues		7
13	Elevated somatic mutation burdens in normal human cells due to defective DNA polymerases		10
12	Extensive phylogenies of human development reveal variable embryonic patterns		1
11	The mutational landscape of human somatic and germline cells		5
10	Uncovering novel mutational signatures by de novo extraction with SigProfilerExtractor		17
9	The Repertoire of Mutational Signatures in Human Cancer		67
8	The landscape of somatic mutation in normal colorectal epithelial cells		14
7	The mutational landscape of normal human endometrial epithelium		9
6	Life without mismatch repair		6
5	Mutational signatures in esophageal squamous cell carcinoma from eight countries of varying incidence		2
4	The APOBEC3A deaminase drives episodic mutagenesis in cancer cells		3
3	Somatic mutation rates scale with lifespan across mammals		4



2 Clonal dynamics of haematopoiesis across the human lifespan 2

1 Clonal dynamics of haematopoiesis across the human lifespan. *Nature*, 504 7