

Serena Nik-Zainal

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

32,325
citations

24978

57
h-index

51492

86
g-index

94
all docs

94
docs citations

94
times ranked

40262
citing authors

#	ARTICLE	IF	CITATIONS
1	Signatures of mutational processes in human cancer. <i>Nature</i> , 2013, 500, 415-421.	13.7	8,060
2	Massive Genomic Rearrangement Acquired in a Single Catastrophic Event during Cancer Development. <i>Cell</i> , 2011, 144, 27-40.	13.5	2,020
3	Landscape of somatic mutations in 560 breast cancer whole-genome sequences. <i>Nature</i> , 2016, 534, 47-54.	13.7	1,760
4	Mutational Processes Molding the Genomes of 21 Breast Cancers. <i>Cell</i> , 2012, 149, 979-993.	13.5	1,673
5	The landscape of cancer genes and mutational processes in breast cancer. <i>Nature</i> , 2012, 486, 400-404.	13.7	1,535
6	The Life History of 21 Breast Cancers. <i>Cell</i> , 2012, 149, 994-1007.	13.5	1,249
7	Deciphering Signatures of Mutational Processes Operative in Human Cancer. <i>Cell Reports</i> , 2013, 3, 246-259.	2.9	1,087
8	A small-cell lung cancer genome with complex signatures of tobacco exposure. <i>Nature</i> , 2010, 463, 184-190.	13.7	972
9	Mutational signatures associated with tobacco smoking in human cancer. <i>Science</i> , 2016, 354, 618-622.	6.0	842
10	Clock-like mutational processes in human somatic cells. <i>Nature Genetics</i> , 2015, 47, 1402-1407.	9.4	837
11	HRDetect is a predictor of BRCA1 and BRCA2 deficiency based on mutational signatures. <i>Nature Medicine</i> , 2017, 23, 517-525.	15.2	769
12	Heterogeneity of genomic evolution and mutational profiles in multiple myeloma. <i>Nature Communications</i> , 2014, 5, 2997.	5.8	741
13	Subclonal diversification of primary breast cancer revealed by multiregion sequencing. <i>Nature Medicine</i> , 2015, 21, 751-759.	15.2	711
14	Mechanisms underlying mutational signatures in human cancers. <i>Nature Reviews Genetics</i> , 2014, 15, 585-598.	7.7	703
15	Distinct H3F3A and H3F3B driver mutations define chondroblastoma and giant cell tumor of bone. <i>Nature Genetics</i> , 2013, 45, 1479-1482.	9.4	667
16	A Compendium of Mutational Signatures of Environmental Agents. <i>Cell</i> , 2019, 177, 821-836.e16.	13.5	437
17	Analysis of the genetic phylogeny of multifocal prostate cancer identifies multiple independent clonal expansions in neoplastic and morphologically normal prostate tissue. <i>Nature Genetics</i> , 2015, 47, 367-372.	9.4	380
18	Extensive transduction of nonrepetitive DNA mediated by L1 retrotransposition in cancer genomes. <i>Science</i> , 2014, 345, 1251343.	6.0	348

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19	Use of CRISPR-modified human stem cell organoids to study the origin of mutational signatures in cancer. <i>Science</i> , 2017, 358, 234-238.	6.0	337
20	DNA deaminases induce break-associated mutation showers with implication of APOBEC3B and 3A in breast cancer kataegis. <i>ELife</i> , 2013, 2, e00534.	2.8	322
21	Origins and functional consequences of somatic mitochondrial DNA mutations in human cancer. <i>ELife</i> , 2014, 3, .	2.8	318
22	Genome sequencing of normal cells reveals developmental lineages and mutational processes. <i>Nature</i> , 2014, 513, 422-425.	13.7	315
23	RAG-mediated recombination is the predominant driver of oncogenic rearrangement in ETV6-RUNX1 acute lymphoblastic leukemia. <i>Nature Genetics</i> , 2014, 46, 116-125.	9.4	313
24	Characterizing Mutational Signatures in Human Cancer Cell Lines Reveals Episodic APOBEC Mutagenesis. <i>Cell</i> , 2019, 176, 1282-1294.e20.	13.5	298
25	Alcohol and endogenous aldehydes damage chromosomes and mutate stem cells. <i>Nature</i> , 2018, 553, 171-177.	13.7	284
26	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> , 2014, 46, 487-491.	9.4	254
27	The genomic landscape of metastatic breast cancer highlights changes in mutation and signature frequencies. <i>Nature Genetics</i> , 2019, 51, 1450-1458.	9.4	250
28	The topography of mutational processes in breast cancer genomes. <i>Nature Communications</i> , 2016, 7, 11383.	5.8	235
29	Whole exome sequencing of adenoid cystic carcinoma. <i>Journal of Clinical Investigation</i> , 2013, 123, 2965-2968.	3.9	233
30	Somatic mutations reveal asymmetric cellular dynamics in the early human embryo. <i>Nature</i> , 2017, 543, 714-718.	13.7	229
31	Whole-genome sequencing of triple-negative breast cancers in a population-based clinical study. <i>Nature Medicine</i> , 2019, 25, 1526-1533.	15.2	218
32	Mutational signatures of ionizing radiation in second malignancies. <i>Nature Communications</i> , 2016, 7, 12605.	5.8	214
33	Frequent mutation of the major cartilage collagen gene COL2A1 in chondrosarcoma. <i>Nature Genetics</i> , 2013, 45, 923-926.	9.4	180
34	The genome as a record of environmental exposure. <i>Mutagenesis</i> , 2015, 30, gev073.	1.0	174
35	Ductal carcinoma in situ: to treat or not to treat, that is the question. <i>British Journal of Cancer</i> , 2019, 121, 285-292.	2.9	168
36	A practical framework and online tool for mutational signature analyses show intertissue variation and driver dependencies. <i>Nature Cancer</i> , 2020, 1, 249-263.	5.7	166

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37	Homologous recombination DNA repair deficiency and PARP inhibition activity in primary triple negative breast cancer. <i>Nature Communications</i> , 2020, 11, 2662.	5.8	157
38	cgpCaVEManWrapper: Simple Execution of CaVEMan in Order to Detect Somatic Single Nucleotide Variants in NGS Data. <i>Current Protocols in Bioinformatics</i> , 2016, 56, 15.10.1-15.10.18.	25.8	155
39	A mutational signature in gastric cancer suggests therapeutic strategies. <i>Nature Communications</i> , 2015, 6, 8683.	5.8	146
40	A practical guide for mutational signature analysis in hematological malignancies. <i>Nature Communications</i> , 2019, 10, 2969.	5.8	145
41	Validating the concept of mutational signatures with isogenic cell models. <i>Nature Communications</i> , 2018, 9, 1744.	5.8	128
42	Mutational signatures: emerging concepts, caveats and clinical applications. <i>Nature Reviews Cancer</i> , 2021, 21, 619-637.	12.8	128
43	Breast cancer genome and transcriptome integration implicates specific mutational signatures with immune cell infiltration. <i>Nature Communications</i> , 2016, 7, 12910.	5.8	119
44	A whole-genome sequence and transcriptome perspective on HER2-positive breast cancers. <i>Nature Communications</i> , 2016, 7, 12222.	5.8	113
45	Estimation of rearrangement phylogeny for cancer genomes. <i>Genome Research</i> , 2012, 22, 346-361.	2.4	108
46	cgpPindel: Identifying Somatic Acquired Insertion and Deletion Events from Paired End Sequencing. <i>Current Protocols in Bioinformatics</i> , 2015, 52, 15.7.1-15.7.12.	25.8	104
47	Substitution mutational signatures in whole-genome-sequenced cancers in the UK population. <i>Science</i> , 2022, 376, .	6.0	104
48	Mutational Signatures in Breast Cancer: The Problem at the DNA Level. <i>Clinical Cancer Research</i> , 2017, 23, 2617-2629.	3.2	102
49	Mutational History of a Human Cell Lineage from Somatic to Induced Pluripotent Stem Cells. <i>PLoS Genetics</i> , 2016, 12, e1005932.	1.5	96
50	The Genomic and Immune Landscapes of Lethal Metastatic Breast Cancer. <i>Cell Reports</i> , 2019, 27, 2690-2708.e10.	2.9	95
51	A systematic CRISPR screen defines mutational mechanisms underpinning signatures caused by replication errors and endogenous DNA damage. <i>Nature Cancer</i> , 2021, 2, 643-657.	5.7	94
52	Processed pseudogenes acquired somatically during cancer development. <i>Nature Communications</i> , 2014, 5, 3644.	5.8	86
53	The circular RNome of primary breast cancer. <i>Genome Research</i> , 2019, 29, 356-366.	2.4	85
54	Whole-Genome Sequencing Reveals Breast Cancers with Mismatch Repair Deficiency. <i>Cancer Research</i> , 2017, 77, 4755-4762.	0.4	81

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55	A somatic-mutational process recurrently duplicates germline susceptibility loci and tissue-specific super-enhancers in breast cancers. <i>Nature Genetics</i> , 2017, 49, 341-348.	9.4	75
56	Uncovering the genomic heterogeneity of multifocal breast cancer. <i>Journal of Pathology</i> , 2015, 236, 457-466.	2.1	72
57	Frequent somatic transfer of mitochondrial DNA into the nuclear genome of human cancer cells. <i>Genome Research</i> , 2015, 25, 814-824.	2.4	69
58	Low rates of mutation in clinical grade human pluripotent stem cells under different culture conditions. <i>Nature Communications</i> , 2020, 11, 1528.	5.8	67
59	Whole-genome sequencing reveals clinically relevant insights into the aetiology of familial breast cancers. <i>Annals of Oncology</i> , 2019, 30, 1071-1079.	0.6	64
60	Sex differences in oncogenic mutational processes. <i>Nature Communications</i> , 2020, 11, 4330.	5.8	60
61	Comprehensive molecular comparison of BRCA1 hypermethylated and BRCA1 mutated triple negative breast cancers. <i>Nature Communications</i> , 2020, 11, 3747.	5.8	53
62	The genetic heterogeneity and mutational burden of engineered melanomas in zebrafish models. <i>Genome Biology</i> , 2013, 14, R113.	13.9	40
63	Preclinical <i>In Vivo</i> Validation of the RAD51 Test for Identification of Homologous Recombination-Deficient Tumors and Patient Stratification. <i>Cancer Research</i> , 2022, 82, 1646-1657.	0.4	40
64	APOBEC3A/B deletion polymorphism and cancer risk. <i>Carcinogenesis</i> , 2018, 39, 118-124.	1.3	39
65	Direct Transcriptional Consequences of Somatic Mutation in Breast Cancer. <i>Cell Reports</i> , 2016, 16, 2032-2046.	2.9	36
66	Dramatic response of metastatic cutaneous angiosarcoma to an immune checkpoint inhibitor in a patient with xeroderma pigmentosum: whole-genome sequencing aids treatment decision in end-stage disease. <i>Journal of Physical Education and Sports Management</i> , 2019, 5, a004408.	0.5	34
67	Genomic analysis defines clonal relationships of ductal carcinoma in situ and recurrent invasive breast cancer. <i>Nature Genetics</i> , 2022, 54, 850-860.	9.4	34
68	Spectrum of mutational signatures in T-cell lymphoma reveals a key role for UV radiation in cutaneous T-cell lymphoma. <i>Scientific Reports</i> , 2021, 11, 3962.	1.6	33
69	Familial Adrenocortical Carcinoma in Association With Lynch Syndrome. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 2269-2272.	1.8	27
70	Mutational signatures: experimental design and analytical framework. <i>Genome Biology</i> , 2020, 21, 37.	3.8	27
71	Short inverted repeats contribute to localized mutability in human somatic cells. <i>Nucleic Acids Research</i> , 2017, 45, 11213-11221.	6.5	26
72	Mutational mechanisms of amplifications revealed by analysis of clustered rearrangements in breast cancers. <i>Annals of Oncology</i> , 2018, 29, 2223-2231.	0.6	26

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73	Epigenetic modifiers DNMT3A and BCOR are recurrently mutated in CYLD cutaneous syndrome. <i>Nature Communications</i> , 2019, 10, 4717.	5.8	20
74	Transcription-coupled repair and mismatch repair contribute towards preserving genome integrity at mononucleotide repeat tracts. <i>Nature Communications</i> , 2020, 11, 1980.	5.8	19
75	Whole-Genome Sequencing of Retinoblastoma Reveals the Diversity of Rearrangements Disrupting RB1 and Uncovers a Treatment-Related Mutational Signature. <i>Cancers</i> , 2021, 13, 754.	1.7	16
76	Adrenal-permissive HSD3B1 genetic inheritance and risk of estrogen-driven postmenopausal breast cancer. <i>JCI Insight</i> , 2021, 6, .	2.3	13
77	Cellular survival over genomic perfection. <i>Science</i> , 2019, 366, 802-803.	6.0	12
78	FANCD2-Associated Nuclease 1 Partially Compensates for the Lack of Exonuclease 1 in Mismatch Repair. <i>Molecular and Cellular Biology</i> , 2021, 41, e0030321.	1.1	11
79	Functional RECAP (REpair CAPacity) assay identifies homologous recombination deficiency undetected by DNA-based BRCAness tests. <i>Oncogene</i> , 2022, 41, 3498-3506.	2.6	9
80	From genome integrity to cancer. <i>Genome Medicine</i> , 2019, 11, 4.	3.6	8
81	Holistic cancer genome profiling for every patient. <i>Swiss Medical Weekly</i> , 2020, 150, w20158.	0.8	5
82	Keipert syndrome: two further cases and review of the literature. <i>Clinical Dysmorphology</i> , 2008, 17, 169-175.	0.1	3
83	Insights into cancer biology through next-generation sequencing. <i>Clinical Medicine</i> , 2014, 14, s71-s77.	0.8	3
84	A path inspired by people. <i>Nature Medicine</i> , 2019, 25, 1329-1329.	15.2	1
85	The duty to speak up. <i>Nature Cell Biology</i> , 2018, 20, 1006-1006.	4.6	0
86	Abstract P1-22-05: Identifying predictors of invasive recurrence based on molecular profiles of DCIS lesions. <i>Cancer Research</i> , 2022, 82, P1-22-05-P1-22-05.	0.4	0