

# Andrea Sottoriva

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/818132/publications.pdf>

Version: 2024-02-01

59  
papers

8,545  
citations

136950

32  
h-index

133252

59  
g-index

86  
all docs

86  
docs citations

86  
times ranked

14588  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intratumor heterogeneity in human glioblastoma reflects cancer evolutionary dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4009-4014.	7.1	1,471
2	Patient-derived organoids model treatment response of metastatic gastrointestinal cancers. Science, 2018, 359, 920-926.	12.6	1,199
3	A Big Bang model of human colorectal tumor growth. Nature Genetics, 2015, 47, 209-216.	21.4	867
4	Identification of neutral tumor evolution across cancer types. Nature Genetics, 2016, 48, 238-244.	21.4	525
5	Resolving genetic heterogeneity in cancer. Nature Reviews Genetics, 2019, 20, 404-416.	16.3	443
6	The shaping and functional consequences of the microRNA landscape in breast cancer. Nature, 2013, 497, 378-382.	27.8	370
7	Defining Stem Cell Dynamics in Models of Intestinal Tumor Initiation. Science, 2013, 342, 995-998.	12.6	355
8	Classifying the evolutionary and ecological features of neoplasms. Nature Reviews Cancer, 2017, 17, 605-619.	28.4	303
9	Cancer Evolution and the Limits of Predictability in Precision Cancer Medicine. Trends in Cancer, 2016, 2, 49-63.	7.4	222
10	Quantification of subclonal selection in cancer from bulk sequencing data. Nature Genetics, 2018, 50, 895-903.	21.4	222
11	Longitudinal Liquid Biopsy and Mathematical Modeling of Clonal Evolution Forecast Time to Treatment Failure in the PROSPECT-C Phase II Colorectal Cancer Clinical Trial. Cancer Discovery, 2018, 8, 1270-1285.	9.4	187
12	Cancer Stem Cell Tumor Model Reveals Invasive Morphology and Increased Phenotypical Heterogeneity. Cancer Research, 2010, 70, 46-56.	0.9	180
13	A multiphysics and multiscale software environment for modeling astrophysical systems. New Astronomy, 2009, 14, 369-378.	1.8	146
14	Between-region genetic divergence reflects the mode and tempo of tumor evolution. Nature Genetics, 2017, 49, 1015-1024.	21.4	144
15	Detecting repeated cancer evolution from multi-region tumor sequencing data. Nature Methods, 2018, 15, 707-714.	19.0	124
16	The evolutionary landscape of colorectal tumorigenesis. Nature Ecology and Evolution, 2018, 2, 1661-1672.	7.8	99
17	Measuring cancer evolution from the genome. Journal of Pathology, 2017, 241, 183-191.	4.5	93
18	Exploiting evolutionary steering to induce collateral drug sensitivity in cancer. Nature Communications, 2020, 11, 1923.	12.8	79

#	ARTICLE	IF	CITATIONS
19	EGFRVIII mutations can emerge as late and heterogenous events in glioblastoma development and promote angiogenesis through Src activation. <i>Neuro-Oncology</i> , 2016, 18, 1644-1655.	1.2	78
20	Current Challenges in Glioblastoma: Intratumour Heterogeneity, Residual Disease, and Models to Predict Disease Recurrence. <i>Frontiers in Oncology</i> , 2015, 5, 251.	2.8	77
21	Subclonal reconstruction of tumors by using machine learning and population genetics. <i>Nature Genetics</i> , 2020, 52, 898-907.	21.4	77
22	Prediction of Benefit from Checkpoint Inhibitors in Mismatch Repair Deficient Metastatic Colorectal Cancer: Role of Tumor Infiltrating Lymphocytes. <i>Oncologist</i> , 2020, 25, 481-487.	3.7	77
23	Single-Molecule Genomic Data Delineate Patient-Specific Tumor Profiles and Cancer Stem Cell Organization. <i>Cancer Research</i> , 2013, 73, 41-49.	0.9	68
24	Evolutionary dynamics of neoantigens in growing tumors. <i>Nature Genetics</i> , 2020, 52, 1057-1066.	21.4	68
25	The Cancer Stem Cell Fraction in Hierarchically Organized Tumors Can Be Estimated Using Mathematical Modeling and Patient-Specific Treatment Trajectories. <i>Cancer Research</i> , 2016, 76, 1705-1713.	0.9	65
26	Spatially constrained tumour growth affects the patterns of clonal selection and neutral drift in cancer genomic data. <i>PLoS Computational Biology</i> , 2019, 15, e1007243.	3.2	59
27	Robust RNA-based in situ mutation detection delineates colorectal cancer subclonal evolution. <i>Nature Communications</i> , 2017, 8, 1998.	12.8	57
28	Modeling Evolutionary Dynamics of Epigenetic Mutations in Hierarchically Organized Tumors. <i>PLoS Computational Biology</i> , 2011, 7, e1001132.	3.2	53
29	Measuring Clonal Evolution in Cancer with Genomics. <i>Annual Review of Genomics and Human Genetics</i> , 2019, 20, 309-329.	6.2	52
30	Contributions to Drug Resistance in Glioblastoma Derived from Malignant Cells in the Sub-Ependymal Zone. <i>Cancer Research</i> , 2015, 75, 194-202.	0.9	48
31	Evolutionary dynamics of residual disease in human glioblastoma. <i>Annals of Oncology</i> , 2019, 30, 456-463.	1.2	47
32	Measuring single cell divisions in human tissues from multi-region sequencing data. <i>Nature Communications</i> , 2020, 11, 1035.	12.8	41
33	Colorectal cancer residual disease at maximal response to EGFR blockade displays a druggable Paneth cell-like phenotype. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	40
34	Epigenetic Profile of Human Adventitial Progenitor Cells Correlates With Therapeutic Outcomes in a Mouse Model of Limb Ischemia. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 675-688.	2.4	38
35	Reconstructing single-cell karyotype alterations in colorectal cancer identifies punctuated and gradual diversification patterns. <i>Nature Genetics</i> , 2021, 53, 1187-1195.	21.4	37
36	Microenvironmental niche divergence shapes BRCA1-dysregulated ovarian cancer morphological plasticity. <i>Nature Communications</i> , 2018, 9, 3917.	12.8	33

#	ARTICLE	IF	CITATIONS
37	Exploring cancer stem cell niche directed tumor growth. <i>Cell Cycle</i> , 2010, 9, 1472-1479.	2.6	32
38	Measuring the distribution of fitness effects in somatic evolution by combining clonal dynamics with dN/dS ratios. <i>ELife</i> , 2020, 9, .	6.0	32
39	Many private mutations originate from the first few divisions of a human colorectal adenoma. <i>Journal of Pathology</i> , 2015, 237, 355-362.	4.5	30
40	The Spatiotemporal Evolution of Lymph Node Spread in Early Breast Cancer. <i>Clinical Cancer Research</i> , 2018, 24, 4763-4770.	7.0	30
41	Mapping the breast cancer metastatic cascade onto ctDNA using genetic and epigenetic clonal tracking. <i>Nature Communications</i> , 2020, 11, 1446.	12.8	28
42	Reply to "Neutral tumor evolution". <i>Nature Genetics</i> , 2018, 50, 1633-1637.	21.4	27
43	Variation of mutational burden in healthy human tissues suggests non-random strand segregation and allows measuring somatic mutation rates. <i>PLoS Computational Biology</i> , 2018, 14, e1006233.	3.2	26
44	Carbon dating cancer: defining the chronology of metastatic progression in colorectal cancer. <i>Annals of Oncology</i> , 2017, 28, 1243-1249.	1.2	25
45	Detecting truly clonal alterations from multi-region profiling of tumours. <i>Scientific Reports</i> , 2017, 7, 44991.	3.3	24
46	EGFR amplification and outcome in a randomised phase III trial of chemotherapy alone or chemotherapy plus panitumumab for advanced gastro-oesophageal cancers. <i>Gut</i> , 2021, 70, 1632-1641.	12.1	24
47	Catch my drift? Making sense of genomic intra-tumour heterogeneity. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2017, 1867, 95-100.	7.4	23
48	Germline MBD4 deficiency causes a multi-tumor predisposition syndrome. <i>American Journal of Human Genetics</i> , 2022, 109, 953-960.	6.2	23
49	Immunosuppressive niche engineering at the onset of human colorectal cancer. <i>Nature Communications</i> , 2022, 13, 1798.	12.8	19
50	The MOBSTER R package for tumour subclonal deconvolution from bulk DNA whole-genome sequencing data. <i>BMC Bioinformatics</i> , 2020, 21, 531.	2.6	18
51	Circulating tumour DNA sequencing to determine therapeutic response and identify tumour heterogeneity in patients with paediatric solid tumours. <i>European Journal of Cancer</i> , 2022, 162, 209-220.	2.8	12
52	Reply to "Currently available bulk sequencing data do not necessarily support a model of neutral tumor evolution". <i>Nature Genetics</i> , 2018, 50, 1624-1626.	21.4	11
53	Analysis of tumour ecological balance reveals resource-dependent adaptive strategies of ovarian cancer. <i>EBioMedicine</i> , 2019, 48, 224-235.	6.1	8
54	Reply: Uncertainties in tumor allele frequencies limit power to infer evolutionary pressures. <i>Nature Genetics</i> , 2017, 49, 1289-1291.	21.4	7

#	ARTICLE	IF	CITATIONS
55	The role of sub-ventricular zone in gliomagenesis. Aging, 2015, 7, 738-739.	3.1	6
56	Functional versus non-functional intratumor heterogeneity in cancer. Molecular and Cellular Oncology, 2016, 3, e1162897.	0.7	5
57	Reply to "Revisiting signatures of neutral tumor evolution in the light of complexity of cancer genomic data". Nature Genetics, 2018, 50, 1628-1630.	21.4	5
58	Reply: Is the evolution of tumors Darwinian or non-Darwinian?. National Science Review, 2018, 5, 17-19.	9.5	3
59	Reply: Neutral tumor evolution?. , 0, , .		1