

Ignacio Varela

List of Publications by Citations

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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.

82
papers

21,940
citations

42
h-index

89
g-index

89
ext. papers

25,289
ext. citations

17.4
avg, IF

5.48
L-index

#	Paper	IF	Citations
82	Intratumor heterogeneity and branched evolution revealed by multiregion sequencing. <i>New England Journal of Medicine</i> , 2012 , 366, 883-892	59.2	5559
81	Massive genomic rearrangement acquired in a single catastrophic event during cancer development. <i>Cell</i> , 2011 , 144, 27-40	56.2	1628
80	A comprehensive catalogue of somatic mutations from a human cancer genome. <i>Nature</i> , 2010 , 463, 191-504	50.4	1303
79	Mutational processes molding the genomes of 21 breast cancers. <i>Cell</i> , 2012 , 149, 979-93	56.2	1279
78	The landscape of cancer genes and mutational processes in breast cancer. <i>Nature</i> , 2012 , 486, 400-4	50.4	1264
77	The patterns and dynamics of genomic instability in metastatic pancreatic cancer. <i>Nature</i> , 2010 , 467, 1109-13	50.4	1013
76	The life history of 21 breast cancers. <i>Cell</i> , 2012 , 149, 994-1007	56.2	979
75	Exome sequencing identifies frequent mutation of the SWI/SNF complex gene PBRM1 in renal carcinoma. <i>Nature</i> , 2011 , 469, 539-42	50.4	943
74	Genomic architecture and evolution of clear cell renal cell carcinomas defined by multiregion sequencing. <i>Nature Genetics</i> , 2014 , 46, 225-233	36.3	866
73	A small-cell lung cancer genome with complex signatures of tobacco exposure. <i>Nature</i> , 2010 , 463, 184-90	50.4	852
72	Spatial and temporal diversity in genomic instability processes defines lung cancer evolution. <i>Science</i> , 2014 , 346, 251-6	33.3	752
71	Complex landscapes of somatic rearrangement in human breast cancer genomes. <i>Nature</i> , 2009 , 462, 1005-10	50.4	684
70	Targeted gene correction of α -antitrypsin deficiency in induced pluripotent stem cells. <i>Nature</i> , 2011 , 478, 391-4	50.4	557
69	Accelerated ageing in mice deficient in Zmpste24 protease is linked to p53 signalling activation. <i>Nature</i> , 2005 , 437, 564-8	50.4	362
68	Leukemia-associated somatic mutations drive distinct patterns of age-related clonal hemopoiesis. <i>Cell Reports</i> , 2015 , 10, 1239-45	10.6	343
67	Combined treatment with statins and aminobisphosphonates extends longevity in a mouse model of human premature aging. <i>Nature Medicine</i> , 2008 , 14, 767-72	50.5	300
66	Splicing-directed therapy in a new mouse model of human accelerated aging. <i>Science Translational Medicine</i> , 2011 , 3, 106ra107	17.5	240

65	Evolutionary routes and KRAS dosage define pancreatic cancer phenotypes. <i>Nature</i> , 2018 , 554, 62-68	50.4	192
64	Whole exome sequencing of adenoid cystic carcinoma. <i>Journal of Clinical Investigation</i> , 2013 , 123, 2965-85.9		188
63	Aging and chronic DNA damage response activate a regulatory pathway involving miR-29 and p53. <i>EMBO Journal</i> , 2011 , 30, 2219-32	13	182
62	PLCG1 mutations in cutaneous T-cell lymphomas. <i>Blood</i> , 2014 , 123, 2034-43	2.2	150
61	A next-generation dual-recombinase system for time- and host-specific targeting of pancreatic cancer. <i>Nature Medicine</i> , 2014 , 20, 1340-1347	50.5	149
60	A genetic progression model of Braf(V600E)-induced intestinal tumorigenesis reveals targets for therapeutic intervention. <i>Cancer Cell</i> , 2013 , 24, 15-29	24.3	146
59	Nuclear envelope defects cause stem cell dysfunction in premature-aging mice. <i>Journal of Cell Biology</i> , 2008 , 181, 27-35	7.3	145
58	CRISPR/Cas9 somatic multiplex-mutagenesis for high-throughput functional cancer genomics in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13982-7 ^{1.5}		135
57	Premature aging in mice activates a systemic metabolic response involving autophagy induction. <i>Human Molecular Genetics</i> , 2008 , 17, 2196-211	5.6	123
56	Multiplexed pancreatic genome engineering and cancer induction by transfection-based CRISPR/Cas9 delivery in mice. <i>Nature Communications</i> , 2016 , 7, 10770	17.4	110
55	Somatic Mutations Reveal Lineage Relationships and Age-Related Mutagenesis in Human Hematopoiesis. <i>Cell Reports</i> , 2018 , 25, 2308-2316.e4	10.6	97
54	Whole-exome sequencing in splenic marginal zone lymphoma reveals mutations in genes involved in marginal zone differentiation. <i>Leukemia</i> , 2014 , 28, 1334-40	10.7	90
53	An international effort towards developing standards for best practices in analysis, interpretation and reporting of clinical genome sequencing results in the CLARITY Challenge. <i>Genome Biology</i> , 2014 , 15, R53	18.3	86
52	Recurrent chromosomal gains and heterogeneous driver mutations characterise papillary renal cancer evolution. <i>Nature Communications</i> , 2015 , 6, 6336	17.4	85
51	UTX-mediated enhancer and chromatin remodeling suppresses myeloid leukemogenesis through noncatalytic inverse regulation of ETS and GATA programs. <i>Nature Genetics</i> , 2018 , 50, 883-894	36.3	73
50	Human progeroid syndromes, aging and cancer: new genetic and epigenetic insights into old questions. <i>Cellular and Molecular Life Sciences</i> , 2007 , 64, 155-70	10.3	71
49	A conditional piggyBac transposition system for genetic screening in mice identifies oncogenic networks in pancreatic cancer. <i>Nature Genetics</i> , 2015 , 47, 47-56	36.3	59
48	Shared Oncogenic Pathways Implicated in Both Virus-Positive and UV-Induced Merkel Cell Carcinomas. <i>Journal of Investigative Dermatology</i> , 2017 , 137, 197-206	4.3	55

47	Tumor Functional Heterogeneity Unraveled by scRNA-seq Technologies. <i>Trends in Cancer</i> , 2020 , 6, 13-19	12.5	54
46	The E3 ligase RNF43 inhibits Wnt signaling downstream of mutated E-catenin by sequestering TCF4 to the nuclear membrane. <i>Science Signaling</i> , 2015 , 8, ra90	8.8	53
45	Development of synchronous VHL syndrome tumors reveals contingencies and constraints to tumor evolution. <i>Genome Biology</i> , 2014 , 15, 433	18.3	53
44	Unraveling the cellular origin and clinical prognostic markers of infant B-cell acute lymphoblastic leukemia using genome-wide analysis. <i>Haematologica</i> , 2019 , 104, 1176-1188	6.6	44
43	Nuclear envelope alterations generate an aging-like epigenetic pattern in mice deficient in Zmpste24 metalloprotease. <i>Aging Cell</i> , 2010 , 9, 947-57	9.9	44
42	Inflammatory and immune response genes have significantly altered expression in schizophrenia. <i>Molecular Psychiatry</i> , 2013 , 18, 1056-7	15.1	42
41	Molecular synergy underlies the co-occurrence patterns and phenotype of -mutant acute myeloid leukemia. <i>Blood</i> , 2017 , 130, 1911-1922	2.2	42
40	AtFACE-2, a functional prenylated protein protease from Arabidopsis thaliana related to mammalian Ras-converting enzymes. <i>Journal of Biological Chemistry</i> , 2003 , 278, 42091-7	5.4	42
39	Characterization of gene mutations and copy number changes in acute myeloid leukemia using a rapid target enrichment protocol. <i>Haematologica</i> , 2015 , 100, 214-22	6.6	38
38	Development and validation of a comprehensive genomic diagnostic tool for myeloid malignancies. <i>Blood</i> , 2016 , 128, e1-9	2.2	36
37	Activated KRAS Cooperates with MLL-AF4 to Promote Extramedullary Engraftment and Migration of Cord Blood CD34+ HSPC But Is Insufficient to Initiate Leukemia. <i>Cancer Research</i> , 2016 , 76, 2478-89	10.1	33
36	From immature laminin to premature aging: molecular pathways and therapeutic opportunities. <i>Cell Cycle</i> , 2005 , 4, 1732-5	4.7	30
35	Development Refractoriness of MLL-Rearranged Human B Cell Acute Leukemias to Reprogramming into Pluripotency. <i>Stem Cell Reports</i> , 2016 , 7, 602-618	8	29
34	Discovery of a CD10-negative B-progenitor in human fetal life identifies unique ontogeny-related developmental programs. <i>Blood</i> , 2019 , 134, 1059-1071	2.2	28
33	Detailed molecular characterisation of acute myeloid leukaemia with a normal karyotype using targeted DNA capture. <i>Leukemia</i> , 2013 , 27, 1820-5	10.7	26
32	Identification, functional expression and enzymic analysis of two distinct CaaX proteases from <i>Caenorhabditis elegans</i> . <i>Biochemical Journal</i> , 2003 , 370, 1047-54	3.8	25
31	A functional variant of TLR10 modifies the activity of NFkB and may help predict a worse prognosis in patients with rheumatoid arthritis. <i>Arthritis Research and Therapy</i> , 2016 , 18, 221	5.7	24
30	Somatic structural rearrangements in genetically engineered mouse mammary tumors. <i>Genome Biology</i> , 2010 , 11, R100	18.3	22

29	V617F hematopoietic clones are present several years prior to MPN diagnosis and follow different expansion kinetics. <i>Blood Advances</i> , 2017 , 1, 968-971	7.8	21
28	Sin3b interacts with Myc and decreases Myc levels. <i>Journal of Biological Chemistry</i> , 2014 , 289, 22221-36	5.4	21
27	Natural history and cell of origin of - and mutations in monozygotic twins with concordant BCP-ALL. <i>Blood</i> , 2019 , 134, 900-905	2.2	16
26	Analysis of the mutational landscape of classic Hodgkin lymphoma identifies disease heterogeneity and potential therapeutic targets. <i>Oncotarget</i> , 2017 , 8, 111386-111395	3.3	16
25	CD133-directed CAR T-cells for MLL leukemia: on-target, off-tumor myeloablative toxicity. <i>Leukemia</i> , 2019 , 33, 2090-2125	10.7	16
24	A Truncated Variant of ASCC1, a Novel Inhibitor of NF- κ B, Is Associated with Disease Severity in Patients with Rheumatoid Arthritis. <i>Journal of Immunology</i> , 2015 , 195, 5415-20	5.3	15
23	Enhanced hemato-endothelial specification during human embryonic differentiation through developmental cooperation between and fusions. <i>Haematologica</i> , 2019 , 104, 1189-1201	6.6	12
22	Microcephalia with mandibular and dental dysplasia in adult Zmpste24-deficient mice. <i>Journal of Anatomy</i> , 2008 , 213, 509-19	2.9	12
21	Analysis pipelines for cancer genome sequencing in mice. <i>Nature Protocols</i> , 2020 , 15, 266-315	18.8	12
20	Intratumoral heterogeneity and clonal evolution in blood malignancies and solid tumors. <i>Oncotarget</i> , 2017 , 8, 66742-66746	3.3	10
19	Applied diagnostics in liver cancer. Efficient combinations of sorafenib with targeted inhibitors blocking AKT/mTOR. <i>Oncotarget</i> , 2018 , 9, 30869-30882	3.3	8
18	The Life History of 21 Breast Cancers. <i>Cell</i> , 2015 , 162, 924	56.2	7
17	Colorectal adenomas contain multiple somatic mutations that do not coincide with synchronous adenocarcinoma specimens. <i>PLoS ONE</i> , 2015 , 10, e0119946	3.7	7
16	Evaluation of Toll-like-receptor gene family variants as prognostic biomarkers in rheumatoid arthritis. <i>Immunology Letters</i> , 2017 , 187, 35-40	4.1	6
15	Clonal haematopoiesis is not prevalent in survivors of childhood cancer. <i>British Journal of Haematology</i> , 2018 , 181, 537-539	4.5	6
14	Identification of a germline F692L drug resistance variant in cis with Flt3-internal tandem duplication in knock-in mice. <i>Haematologica</i> , 2016 , 101, e328-31	6.6	4
13	ARID2 deficiency promotes tumor progression and is associated with higher sensitivity to chemotherapy in lung cancer. <i>Oncogene</i> , 2021 , 40, 2923-2935	9.2	4
12	Shared D-J rearrangements reveal cell of origin of TCF3-ZNF384 and PTPN11 mutations in monozygotic twins with concordant BCP-ALL. <i>Blood</i> , 2020 , 136, 1108-1111	2.2	3

11	Rapid parallel acquisition of somatic mutations after NPM1 in acute myeloid leukaemia evolution. <i>British Journal of Haematology</i> , 2017 , 176, 825-829	4.5	3
10	A novel mutation in ADAMTS13 of a child with Upshaw-Schulman Syndrome. <i>Thrombosis and Haemostasis</i> , 2014 , 112, 1065-8	7	3
9	Individualized strategies to target specific mechanisms of disease in malignant melanoma patients displaying unique mutational signatures. <i>Oncotarget</i> , 2015 , 6, 25452-65	3.3	3
8	The MNT transcription factor autoregulates its expression and supports proliferation in MYC-associated factor X (MAX)-deficient cells. <i>Journal of Biological Chemistry</i> , 2020 , 295, 2001-2017	5.4	3
7	HDAC7 is a major contributor in the pathogenesis of infant t(4;11) proB acute lymphoblastic leukemia. <i>Leukemia</i> , 2021 , 35, 2086-2091	10.7	2
6	Bone Marrow Clonogenic Myeloid Progenitors from -Mutated AML Patients Do Not Harbor the Mutation: Implication for the Cell-Of-Origin of AML. <i>Genes</i> , 2020 , 11,	4.2	1
5	Integrative methylome-transcriptome analysis unravels cancer cell vulnerabilities in infant MLL-rearranged B cell acute lymphoblastic leukemia. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	1
4	Characterization of Subclonal Changes Along Progression in Multiple Myeloma.. <i>Blood</i> , 2012 , 120, 2924-2924		0
3	Nuclear envelope defects cause stem cell dysfunction in premature-aging mice. <i>Journal of Experimental Medicine</i> , 2008 , 205, i10-i10	16.6	
2	Mutational Status of Splenic Marginal Zone Lymphoma Revealed by Whole Exome Sequencing.. <i>Blood</i> , 2012 , 120, 2698-2698	2.2	
1	Mutations in PLCG1 Is a Frequent Event in Cutaneous T-Cell Lymphomas. <i>Blood</i> , 2012 , 120, 300-300	2.2	