Garry P Nolan

List of Publications by Year
in descending order

323 papers	44,070 citations	3149 92 h-index	2675 193 g-index
365 all docs	365 docs citations	365 times ranked	47655 citing authors

#	Article	IF	Citations
1	Single-Cell Mass Cytometry of Differential Immune and Drug Responses Across a Human Hematopoietic Continuum. Science, 2011, 332, 687-696.	6.0	2,097
2	Data-Driven Phenotypic Dissection of AML Reveals Progenitor-like Cells that Correlate with Prognosis. Cell, 2015, 162, 184-197.	13.5	1,791
3	The Human Cell Atlas. ELife, 2017, 6, .	2.8	1,547
4	viSNE enables visualization of high dimensional single-cell data and reveals phenotypic heterogeneity of leukemia. Nature Biotechnology, 2013, 31, 545-552.	9.4	1,481
5	Causal Protein-Signaling Networks Derived from Multiparameter Single-Cell Data. Science, 2005, 308, 523-529.	6.0	1,267
6	Mass Cytometry: Single Cells, Many Features. Cell, 2016, 165, 780-791.	13.5	978
7	Deep Profiling of Mouse Splenic Architecture with CODEX Multiplexed Imaging. Cell, 2018, 174, 968-981.e15.	13.5	948
8	Cloning of the p50 DNA binding subunit of NF-ÎºB: Homology to rel and dorsal. Cell, 1990, 62, 1019-1029.	13.5	929
9	Extracting a cellular hierarchy from high-dimensional cytometry data with SPADE. Nature Biotechnology, 2011, 29, 886-891.	9.4	905
10	Three-dimensional intact-tissue sequencing of single-cell transcriptional states. Science, 2018, 361, .	6.0	890
11	Multiplexed ion beam imaging of human breast tumors. Nature Medicine, 2014, 20, 436-442.	15.2	881
12	Single-Cell Trajectory Detection Uncovers Progression and Regulatory Coordination in Human B Cell Development. Cell, 2014, 157, 714-725.	13.5	838
13	A gut bacterial pathway metabolizes aromatic amino acids into nine circulating metabolites. Nature, 2017, 551, 648-652.	13.7	805
14	Systemic Immunity Is Required for Effective Cancer Immunotherapy. Cell, 2017, 168, 487-502.e15.	13.5	708
15	Episomal Vectors Rapidly and Stably Produce High-Titer Recombinant Retrovirus. Human Gene Therapy, 1996, 7, 1405-1413.	1.4	689
16	Single Cell Profiling of Potentiated Phospho-Protein Networks in Cancer Cells. Cell, 2004, 118, 217-228.	13.5	655
17	Normalization of mass cytometry data with bead standards. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83A, 483-494.	1.1	655
18	DNA binding and IÎºB inhibition of the cloned p65 subunit of NF-ÎºB, a rel-related polypeptide. Cell, 1991, 64, 961-969.	13.5	644

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19	A deep profiler's guide to cytometry. Trends in Immunology, 2012, 33, 323-332.	2.9	596
20	NF-AT components define a family of transcription factors targeted in T-cell activation. Nature, 1994, 369, 497-502.	13.7	572
21	Cytometry by Time-of-Flight Shows Combinatorial Cytokine Expression and Virus-Specific Cell Niches within a Continuum of CD8+ T Cell Phenotypes. Immunity, 2012, 36, 142-152.	6.6	534
22	Computational solutions to large-scale data management and analysis. Nature Reviews Genetics, 2010, 11, 647-657.	7.7	519
23	Intracellular phospho-protein staining techniques for flow cytometry: Monitoring single cell signaling events. Cytometry, 2003, 55A, 61-70.	1.8	510
24	Multimodal Analysis of Composition and Spatial Architecture in Human Squamous Cell Carcinoma. Cell, 2020, 182, 497-514.e22.	13.5	508
25	Multiplexed mass cytometry profiling of cellular states perturbed by small-molecule regulators. Nature Biotechnology, 2012, 30, 858-867.	9.4	502
26	Fluorescent cell barcoding in flow cytometry allows high-throughput drug screening and signaling profiling. Nature Methods, 2006, 3, 361-368.	9.0	495
27	Palladium-based mass tag cell barcoding with a doublet-filtering scheme and single-cell deconvolution algorithm. Nature Protocols, 2015, 10, 316-333.	5.5	466
28	Coordinated Cellular Neighborhoods Orchestrate Antitumoral Immunity at the Colorectal Cancer Invasive Front. Cell, 2020, 182, 1341-1359.e19.	13.5	464
29	Automated identification of stratifying signatures in cellular subpopulations. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2770-7.	3.3	421
30	An immune clock of human pregnancy. Science Immunology, 2017, 2, .	5.6	371
31	Automated mapping of phenotype space with single-cell data. Nature Methods, 2016, 13, 493-496.	9.0	344
32	Structural Linkage between Ligand Discrimination and Receptor Activation by Type I Interferons. Cell, 2011, 146, 621-632.	13.5	310
33	Expression of specific inflammasome gene modules stratifies older individuals into two extreme clinical and immunological states. Nature Medicine, 2017, 23, 174-184.	15.2	304
34	Mapping normal and cancer cell signalling networks: towards single-cell proteomics. Nature Reviews Cancer, 2006, 6, 146-155.	12.8	297
35	Analysis of protein phosphorylation and cellular signaling events by flow cytometry: techniques and clinical applications. Clinical Immunology, 2004, 110, 206-221.	1.4	296
36	Novel mutations in the inhibitory adaptor protein LNK drive JAK-STAT signaling in patients with myeloproliferative neoplasms. Blood, 2010, 116, 988-992.	0.6	295

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37	The T Cell Activation Factor NF-ATc Positively Regulates HIV-1 Replication and Gene Expression in T Cells. Immunity, 1997, 6, 235-244.	6.6	294
38	Clinical recovery from surgery correlates with single-cell immune signatures. Science Translational Medicine, 2014, 6, 255ra131.	5.8	285
39	Highly multiplexed simultaneous detection of RNAs and proteins in single cells. Nature Methods, 2016, 13, 269-275.	9.0	278
40	Phosphoproteomic Analysis Reveals Interconnected System-Wide Responses to Perturbations of Kinases and Phosphatases in Yeast. Science Signaling, 2010, 3, rs4.	1.6	277
41	Simultaneous measurement of multiple active kinase states using polychromatic flow cytometry. Nature Biotechnology, 2002, 20, 155-162.	9.4	260
42	The transcriptional landscape of αβ T cell differentiation. Nature Immunology, 2013, 14, 619-632.	7.0	256
43	Inhibition of T Cell and Promotion of Natural Killer Cell Development by the Dominant Negative Helix Loop Helix Factor Id3. Journal of Experimental Medicine, 1997, 186, 1597-1602.	4.2	255
44	NF-κB to the rescue: RELs, apoptosis and cellular transformation. Trends in Genetics, 1999, 15, 229-235.	2.9	255
45	MIBI-TOF: A multiplexed imaging platform relates cellular phenotypes and tissue structure. Science Advances, 2019, 5, eaax5851.	4.7	252
46	Local Delivery of Interleukin 4 by Retrovirus-Transduced T Lymphocytes Ameliorates Experimental Autoimmune Encephalomyelitis. Journal of Experimental Medicine, 1997, 185, 1711-1714.	4.2	250
47	Single-cell mass cytometry reveals distinct populations of brain myeloid cells in mouse neuroinflammation and neurodegeneration models. Nature Neuroscience, 2018, 21, 541-551.	7.1	249
48	Chemical combination effects predict connectivity in biological systems. Molecular Systems Biology, 2007, 3, 80.	3.2	243
49	Chemical labeling strategies for cell biology. Nature Methods, 2006, 3, 591-596.	9.0	231
50	High-Dimensional Phenotypic Mapping of Human Dendritic Cells Reveals Interindividual Variation and Tissue Specialization. Immunity, 2017, 47, 1037-1050.e6.	6.6	231
51	SARS-CoV-2 infects human pancreatic β cells and elicits β cell impairment. Cell Metabolism, 2021, 33, 1565-1576.e5.	7.2	225
52	Rapid Production of Retroviruses for Efficient Gene Delivery to Mammalian Cells Using 293TCell–Based Systems. Current Protocols in Immunology, 1999, 31, Unit 10.17C.	3.6	223
53	CODEX multiplexed tissue imaging with DNA-conjugated antibodies. Nature Protocols, 2021, 16, 3802-3835.	5.5	221
54	Single-Cell Profiling Identifies Aberrant STAT5 Activation in Myeloid Malignancies with Specific Clinical and Biologic Correlates. Cancer Cell, 2008, 14, 335-343.	7.7	219

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55	An interactive reference framework for modeling a dynamic immune system. Science, 2015, 349, 1259425.	6.0	214
56	Host Control of HIV-1 Parasitism in T Cells by the Nuclear Factor of Activated T Cells. Cell, 1998, 95, 595-604.	13.5	213
57	Toso, a Cell Surface, Specific Regulator of Fas-Induced Apoptosis in T Cells. Immunity, 1998, 8, 461-471.	6.6	210
58	The inhibitory ankyrin and activator Rel proteins. Current Opinion in Genetics and Development, 1992, 2, 211-220.	1.5	207
59	Improved FACS-Gal: Flow cytometric analysis and sorting of viable eukaryotic cells expressing reporter gene constructs. Cytometry, 1991, 12, 291-301.	1.8	199
60	Leukocyte functional antigen 1 lowers T cell activation thresholds and signaling through cytohesin-1 and Jun-activating binding protein 1. Nature Immunology, 2003, 4, 1083-1092.	7.0	197
61	From single cells to deep phenotypes in cancer. Nature Biotechnology, 2012, 30, 639-647.	9.4	197
62	Single‐cell mass cytometry adapted to measurements of the cell cycle. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2012, 81A, 552-566.	1.1	196
63	Single-cell mass cytometry for analysis of immune system functional states. Current Opinion in Immunology, 2013, 25, 484-494.	2.4	196
64	High-content single-cell drug screening with phosphospecific flow cytometry. Nature Chemical Biology, 2008, 4, 132-142.	3.9	192
65	ACE2 localizes to the respiratory cilia and is not increased by ACE inhibitors or ARBs. Nature Communications, 2020, 11, 5453.	5.8	191
66	Conditional density-based analysis of T cell signaling in single-cell data. Science, 2014, 346, 1250689.	6.0	188
67	A Continuous Molecular Roadmap to iPSC Reprogramming through Progression Analysis of Single-Cell Mass Cytometry. Cell Stem Cell, 2015, 16, 323-337.	5.2	187
68	Wnt signaling is required for thymocyte development and activates Tcf-1 mediated transcription. European Journal of Immunology, 2001, 31, 285-293.	1.6	182
69	A platinum‐based covalent viability reagent for single‐cell mass cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2012, 81A, 467-475.	1.1	177
70	Metal-isotope-tagged monoclonal antibodies for high-dimensional mass cytometry. Nature Protocols, 2018, 13, 2121-2148.	5.5	171
71	Enabling Technologies for Personalized and Precision Medicine. Trends in Biotechnology, 2020, 38, 497-518.	4.9	169
72	Mutant IDH1 Downregulates ATM and Alters DNA Repair and Sensitivity to DNA Damage Independent of TET2. Cancer Cell, 2016, 30, 337-348.	7.7	166

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73	Multiomics modeling of the immunome, transcriptome, microbiome, proteome and metabolome adaptations during human pregnancy. Bioinformatics, 2019, 35, 95-103.	1.8	162
74	Spatial mapping of protein composition and tissue organization: a primer for multiplexed antibody-based imaging. Nature Methods, 2022, 19, 284-295.	9.0	156
75	Unifying mechanism for different fibrotic diseases. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4757-4762.	3.3	155
76	Defining human cardiac transcription factor hierarchies using integrated single-cell heterogeneity analysis. Nature Communications, 2018, 9, 4906.	5.8	147
77	B-cell signaling networks reveal a negative prognostic human lymphoma cell subset that emerges during tumor progression. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12747-12754.	3.3	143
78	Mammalian Target of Rapamycin Controls Dendritic Cell Development Downstream of Flt3 Ligand Signaling. Immunity, 2010, 33, 597-606.	6.6	142
79	The Initial Phase of an Immune Response Functions to Activate Regulatory T Cells. Journal of Immunology, 2009, 183, 332-339.	0.4	136
80	Identification of RIP3, a RIP-like kinase that activates apoptosis and NFκB. Current Biology, 1999, 9, 539-S3.	1.8	130
81	Altered B-cell receptor signaling kinetics distinguish human follicular lymphoma B cells from tumor-infiltrating nonmalignant B cells. Blood, 2006, 108, 3135-3142.	0.6	130
82	Generation of Retroviral Vector for Clinical Studies Using Transient Transfection. Human Gene Therapy, 1999, 10, 123-132.	1.4	126
83	Luminescent imaging of β-galactosidase activity in living subjects using sequential reporter-enzyme luminescence. Nature Methods, 2006, 3, 295-301.	9.0	122
84	Coordinate Analysis of Murine Immune Cell Surface Markers and Intracellular Phosphoproteins by Flow Cytometry. Journal of Immunology, 2005, 175, 2357-2365.	0.4	117
85	Combination Angiostatin and Endostatin Gene Transfer Induces Synergistic Antiangiogenic Activity in Vitro and Antitumor Efficacy in Leukemia and Solid Tumors in Mice. Molecular Therapy, 2001, 3, 186-196.	3.7	115
86	Activation of the PKB/AKT Pathway by ICAM-2. Immunity, 2002, 16, 51-65.	6.6	113
87	Single-cell developmental classification of B cell precursor acute lymphoblastic leukemia at diagnosis reveals predictors of relapse. Nature Medicine, 2018, 24, 474-483.	15.2	112
88	Transient partial permeabilization with saponin enables cellular barcoding prior to surface marker staining. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2014, 85, 1011-1019.	1.1	108
89	High-resolution myogenic lineage mapping by single-cell mass cytometry. Nature Cell Biology, 2017, 19, 558-567.	4.6	108
90	Kinetics of B Cell Receptor Signaling in Human B Cell Subsets Mapped by Phosphospecific Flow Cytometry. Journal of Immunology, 2006, 177, 1581-1589.	0.4	107

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91	Targeting Rare Populations of Murine Antigen-Specific T Lymphocytes by Retroviral Transduction for Potential Application in Gene Therapy for Autoimmune Disease. Journal of Immunology, 2000, 164, 3581-3590.	0.4	105
92	K-RasG12D expression induces hyperproliferation and aberrant signaling in primary hematopoietic stem/progenitor cells. Blood, 2007, 109, 3945-3952.	0.6	103
93	A general approach for chemical labeling and rapid, spatially controlled protein inactivation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9982-9987.	3.3	101
94	Early reprogramming regulators identified by prospective isolation and mass cytometry. Nature, 2015, 521, 352-356.	13.7	101
95	Immune cell topography predicts response to PD-1 blockade in cutaneous T cell lymphoma. Nature Communications, 2021, 12, 6726.	5.8	101
96	Visualization and cellular hierarchy inference of single-cell data using SPADE. Nature Protocols, 2016, 11, 1264-1279.	5.5	99
97	Virtual and augmented reality for biomedical applications. Cell Reports Medicine, 2021, 2, 100348.	3.3	99
98	Characterization of the Murine Immunological Signaling Network with Phosphospecific Flow Cytometry. Journal of Immunology, 2005, 175, 2366-2373.	0.4	94
99	Mass Cytometric Functional Profiling of Acute Myeloid Leukemia Defines Cell-Cycle and Immunophenotypic Properties That Correlate with Known Responses to Therapy. Cancer Discovery, 2015, 5, 988-1003.	7.7	93
100	Retroviral Transduction of a T Cell Receptor Specific for an Epstein–Barr Virus-Encoded Peptide. Clinical Immunology, 2001, 98, 220-228.	1.4	87
101	Dominant effector genetics in mammalian cells. Nature Genetics, 2001, 27, 23-29.	9.4	87
102	Genomic and Proteomic Analysis Reveals a Threshold Level of MYC Required for Tumor Maintenance. Cancer Research, 2008, 68, 5132-5142.	0.4	87
103	Phospho-proteomic immune analysis by flow cytometry: from mechanism to translational medicine at the single-cell level. Immunological Reviews, 2006, 210, 208-228.	2.8	85
104	Transglutaminase 1 Delivery to Lamellar Ichthyosis Keratinocytes. Human Gene Therapy, 1996, 7, 2247-2253.	1.4	83
105	Fluorescent Cell Barcoding for Multiplex Flow Cytometry. Current Protocols in Cytometry, 2011, 55, Unit 6.31.	3.7	83
106	Commonly Occurring Cell Subsets in High-Grade Serous Ovarian Tumors Identified by Single-Cell Mass Cytometry. Cell Reports, 2018, 22, 1875-1888.	2.9	83
107	Single-Cell Mass Cytometry Analysis of Human Tonsil T Cell Remodeling by Varicella Zoster Virus. Cell Reports, 2014, 8, 633-645.	2.9	82
108	Global transcriptional response to interferon is a determinant of HCV treatment outcome and is modified by race. Hepatology, 2006, 44, 352-359.	3.6	80

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109	Single-Cell Profiling of Ebola Virus Disease InÂVivo Reveals Viral and Host Dynamics. Cell, 2020, 183, 1383-1401.e19.	13.5	79
110	Duration of antigen receptor signaling determines T-cell tolerance or activation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18085-18090.	3.3	75
111	Flow Cytometric Analysis of Kinase Signaling Cascades. , 2004, 263, 067-094.		74
112	Phospho Flow Cytometry Methods for the Analysis of Kinase Signaling in Cell Lines and Primary Human Blood Samples. Methods in Molecular Biology, 2011, 699, 179-202.	0.4	74
113	Multi-omic single-cell snapshots reveal multiple independent trajectories to drug tolerance in a melanoma cell line. Nature Communications, 2020, 11, 2345.	5.8	74
114	In Vivo Targeting of Organic Calcium Sensors via Genetically Selected Peptides. Chemistry and Biology, 2004, 11, 347-356.	6.2	73
115	Cloud and heterogeneous computing solutions exist today for the emerging big data problems in biology. Nature Reviews Genetics, 2011, 12, 224-224.	7.7	72
116	T-Cell Tropism and the Role of ORF66 Protein in Pathogenesis of Varicella-Zoster Virus Infection. Journal of Virology, 2005, 79, 12921-12933.	1.5	70
117	Patient-specific Immune States before Surgery Are Strong Correlates of Surgical Recovery. Anesthesiology, 2015, 123, 1241-1255.	1.3	70
118	Sex Differences in the Blood Transcriptome Identify Robust Changes in Immune Cell Proportions with Aging and Influenza Infection. Cell Reports, 2019, 29, 1961-1973.e4.	2.9	70
119	Flt3 Y591 duplication and Bcl-2 overexpression are detected in acute myeloid leukemia cells with high levels of phosphorylated wild-type p53. Blood, 2007, 109, 2589-2596.	0.6	69
120	Activation of JUN in fibroblasts promotes pro-fibrotic programme and modulates protective immunity. Nature Communications, 2020, 11, 2795.	5.8	69
121	What's wrong with drug screening today. Nature Chemical Biology, 2007, 3, 187-191.	3.9	68
122	Involvement of Toso in activation of monocytes, macrophages, and granulocytes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2593-2598.	3.3	67
123	Single-cell systems-level analysis of human Toll-like receptor activation defines a chemokine signature in patients with systemic lupus erythematosus. Journal of Allergy and Clinical Immunology, 2015, 136, 1326-1336.	1.5	66
124	The ERK Mitogen-Activated Protein Kinase Pathway Contributes to Ebola Virus Glycoprotein-Induced Cytotoxicity. Journal of Virology, 2007, 81, 1230-1240.	1.5	65
125	A benchmark for evaluation of algorithms for identification of cellular correlates of clinical outcomes. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2016, 89, 16-21.	1.1	65
126	Growth Inhibition and Apoptosis Due to Restoration of E2A Activity in T Cell Acute Lymphoblastic Leukemia Cells. Journal of Experimental Medicine, 1999, 189, 501-508.	4.2	63

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127	Y-box-binding protein 1 confers EGF independence to human mammary epithelial cells. Oncogene, 2005, 24, 3177-3186.	2.6	60
128	Deletions in the cytoplasmic domain of iRhom1 and iRhom2 promote shedding of the TNF receptor by the protease ADAM17. Science Signaling, 2015, 8, ra109.	1.6	60
129	Complex mammalian-like haematopoietic system found in a colonial chordate. Nature, 2018, 564, 425-429.	13.7	60
130	Highly Multiplexed Phenotyping of Immunoregulatory Proteins in the Tumor Microenvironment by CODEX Tissue Imaging. Frontiers in Immunology, 2021, 12, 687673.	2.2	59
131	Strategies for Accurate Cell Type Identification in CODEX Multiplexed Imaging Data. Frontiers in Immunology, 2021, 12, 727626.	2.2	59
132	Jak1 Integrates Cytokine Sensing to Regulate Hematopoietic Stem Cell Function and Stress Hematopoiesis. Cell Stem Cell, 2017, 21, 489-501.e7.	5.2	58
133	Evolution of peptides that modulate the spectral qualities of bound, small-molecule fluorophores. Chemistry and Biology, 1998, 5, 713-728.	6.2	57
134	Decoupling of Tumor-Initiating Activity from Stable Immunophenotype in HoxA9-Meis1-Driven AML. Cell Stem Cell, 2012, 10, 210-217.	5.2	55
135	Inhibition of HMGcoA reductase by atorvastatin prevents and reverses MYC-induced lymphomagenesis. Blood, 2007, 110, 2674-2684.	0.6	53
136	Mass cytometry as a platform for the discovery of cellular biomarkers to guide effective rheumatic disease therapy. Arthritis Research and Therapy, 2015, 17, 127.	1.6	53
137	Denisovan, modern human and mouse TNFAIP3 alleles tune A20 phosphorylation and immunity. Nature Immunology, 2019, 20, 1299-1310.	7.0	53
138	Highly multiplexed tissue imaging using repeated oligonucleotide exchange reaction. European Journal of Immunology, 2021, 51, 1262-1277.	1.6	53
139	Implementing Mass Cytometry at the Bedside to Study the Immunological Basis of Human Diseases: Distinctive Immune Features in Patients with a History of Term or Preterm Birth. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 817-829.	1.1	52
140	MetaCyto: A Tool for Automated Meta-analysis of Mass and Flow Cytometry Data. Cell Reports, 2018, 24, 1377-1388.	2.9	52
141	Integration of mechanistic immunological knowledge into a machine learning pipeline improves predictions. Nature Machine Intelligence, 2020, 2, 619-628.	8.3	52
142	Treatment of Autoimmune Disease by Adoptive Cellular Gene Therapy. Annals of the New York Academy of Sciences, 2003, 998, 512-519.	1.8	51
143	Local Delivery of TNF by Retrovirus-Transduced T Lymphocytes Exacerbates Experimental Autoimmune Encephalomyelitis. Clinical Immunology, 1999, 90, 10-14.	1.4	50
144	Single-cell mass cytometry of TCR signaling: Amplification of small initial differences results in low ERK activation in NOD mice. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16466-16471.	3.3	50

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145	Unipotent Megakaryopoietic Pathway Bridging Hematopoietic Stem Cells and Mature Megakaryocytes. Stem Cells, 2015, 33, 2196-2207.	1.4	50
146	Expression vectors and delivery systems. Current Opinion in Biotechnology, 1998, 9, 447-450.	3.3	49
147	Proliferation tracing with single-cell mass cytometry optimizes generation of stem cell memory-like T cells. Nature Biotechnology, 2019, 37, 259-266.	9.4	49
148	LFA-1 signaling through p44/42 is coupled to perforin degranulation in CD56+CD8+ natural killer cells. Blood, 2004, 104, 1083-1093.	0.6	48
149	Electron microscopy localization and characterization of functionalized composite organic-inorganic SERS nanoparticles on leukemia cells. Ultramicroscopy, 2008, 109, 111-121.	0.8	48
150	Single-cell phospho-specific flow cytometric analysis demonstrates biochemical and functional heterogeneity in human hematopoietic stem and progenitor compartments. Blood, 2011, 117, 4226-4233.	0.6	48
151	Singleâ€Cell Phosphoâ€Protein Analysis by Flow Cytometry. Current Protocols in Immunology, 2012, 96, Unit 8.17.1-20.	3.6	46
152	A Comprehensive Atlas of Immunological Differences Between Humans, Mice, and Non-Human Primates. Frontiers in Immunology, 2022, 13, 867015.	2.2	46
153	Resistance Is Futile. Immunity, 2001, 15, 687-690.	6.6	45
154	Expression of Rho GTPases using retroviral vectors. Methods in Enzymology, 2000, 325, 295-302.	0.4	44
155	Singleâ€Cell Phosphoâ€Protein Analysis by Flow Cytometry. Current Protocols in Immunology, 2007, 78, Unit 8.17.	3.6	44
156	CytoSPADE: high-performance analysis and visualization of high-dimensional cytometry data. Bioinformatics, 2012, 28, 2400-2401.	1.8	44
157	Upregulation of Human Endogenous Retrovirus-K Is Linked to Immunity and Inflammation in Pulmonary Arterial Hypertension. Circulation, 2017, 136, 1920-1935.	1.6	44
158	CellSeg: a robust, pre-trained nucleus segmentation and pixel quantification software for highly multiplexed fluorescence images. BMC Bioinformatics, 2022, 23, 46.	1.2	44
159	Combined protein and nucleic acid imaging reveals virus-dependent B cell and macrophage immunosuppression of tissue microenvironments. Immunity, 2022, 55, 1118-1134.e8.	6.6	44
160	<i>mir-181a-1/b-1</i> Modulates Tolerance through Opposing Activities in Selection and Peripheral T Cell Function. Journal of Immunology, 2015, 195, 1470-1479.	0.4	43
161	DRUG-NEM: Optimizing drug combinations using single-cell perturbation response to account for intratumoral heterogeneity. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4294-E4303.	3.3	42
162	Identification of cell types in multiplexed in situ images by combining protein expression and spatial information using CELESTA. Nature Methods, 2022, 19, 759-769.	9.0	42

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163	Identification of NK Cell Subpopulations That Differentiate HIV-Infected Subject Cohorts with Diverse Levels of Virus Control. Journal of Virology, 2019, 93, .	1.5	41
164	Joint Modeling and Registration of Cell Populations in Cohorts of High-Dimensional Flow Cytometric Data. PLoS ONE, 2014, 9, e100334.	1.1	41
165	A Novel Method for Detection of Phosphorylation in Single Cells by Surface Enhanced Raman Scattering (SERS) using Composite Organic-Inorganic Nanoparticles (COINs). PLoS ONE, 2009, 4, e5206.	1.1	39
166	Stage Dependent Aberrant Regulation of Cytokine-STAT Signaling in Murine Systemic Lupus Erythematosus. PLoS ONE, 2009, 4, e6756.	1.1	39
167	Frontiers in cancer immunotherapy—a symposium report. Annals of the New York Academy of Sciences, 2021, 1489, 30-47.	1.8	39
168	Tissue schematics map the specialization of immune tissue motifs and their appropriation by tumors. Cell Systems, 2022, 13, 109-130.e6.	2.9	38
169	Atomic mass tag of bismuth—209 for increasing the immunoassay multiplexing capacity of mass cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 1150-1163.	1.1	37
170	MITI minimum information guidelines for highly multiplexed tissue images. Nature Methods, 2022, 19, 262-267.	9.0	37
171	Synthetically Modified Viral Capsids as Versatile Carriers for Use in Antibody-Based Cell Targeting. Bioconjugate Chemistry, 2015, 26, 1590-1596.	1.8	36
172	Distinct signaling programs control human hematopoietic stem cell survival and proliferation. Blood, 2017, 129, 307-318.	0.6	35
173	Towards program optimization through automated analysis of numerical precision. , 2010, 2010, 230-237.		35
174	Mapping the Fetomaternal Peripheral Immune System at Term Pregnancy. Journal of Immunology, 2016, 197, 4482-4492.	0.4	34
175	Neurotrophin Dependence Domain: A Domain Required for the Mediation of Apoptosis by the p75 Neurotrophin Receptor. Journal of Molecular Neuroscience, 2001, 15, 215-230.	1.1	33
176	Prolonged liver-specific transgene expression by a non-primate lentiviral vector. Biochemical and Biophysical Research Communications, 2004, 320, 998-1006.	1.0	33
177	Transcending the biomarker mindset: deciphering disease mechanisms at the single cell level. Current Opinion in Chemical Biology, 2006, 10, 20-27.	2.8	33
178	Tyramide signal amplification for analysis of kinase activity by intracellular flow cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2010, 77A, 1020-1031.	1.1	33
179	Subcellular localization of biomolecules and drug distribution by high-definition ion beam imaging. Nature Communications, 2021, 12, 4628.	5.8	33
180	Inflammatory molecular endotypes of nasal polyps derived from White and Japanese populations. Journal of Allergy and Clinical Immunology, 2022, 149, 1296-1308.e6.	1.5	33

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181	A functional screen for genes inducing epidermal growth factor autonomy of human mammary epithelial cells confirms the role of amphiregulin. Oncogene, 2001, 20, 4019-4028.	2.6	32
182	Scalable Conjugation and Characterization of Immunoglobulins with Stable Mass Isotope Reporters for Single-Cell Mass Cytometry Analysis. Methods in Molecular Biology, 2019, 1989, 55-81.	0.4	32
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