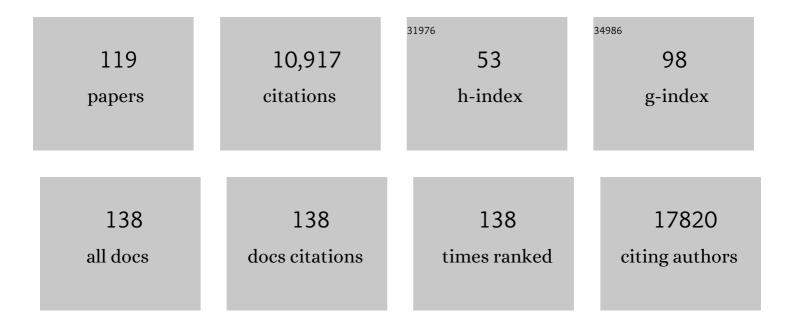
List of Publications by Year in descending order

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THOMAS HÃOFED

#	Article	IF	CITATIONS
1	Temporal control of the integrated stress response by a stochastic molecular switch. Science Advances, 2022, 8, eabk2022.	10.3	13
2	Asynchronous nuclear cycles in multinucleated <i>Plasmodium falciparum</i> facilitate rapid proliferation. Science Advances, 2022, 8, eabj5362.	10.3	70
3	Modeling the Bâ€cell receptor signaling on single cell level reveals a stable network circuit topology between nonâ€malignant B cells and chronic lymphocytic leukemia cells and between untreated cells and cells treated with kinase inhibitors. International Journal of Cancer, 2022, , .	5.1	0
4	MYCN mediates cysteine addiction and sensitizes neuroblastoma to ferroptosis. Nature Cancer, 2022, 3, 471-485.	13.2	73
5	Single-cell transcriptomic analyses provide insights into the developmental origins of neuroblastoma. Nature Genetics, 2021, 53, 683-693.	21.4	128
6	Reconciling Flux Experiments for Quantitative Modeling of Normal and Malignant Hematopoietic Stem/Progenitor Dynamics. Stem Cell Reports, 2021, 16, 741-753.	4.8	13
7	Carbon ion radiotherapy eradicates medulloblastomas with chromothripsis in an orthotopic Li-Fraumeni patient-derived mouse model. Neuro-Oncology, 2021, 23, 2028-2041.	1.2	7
8	Fate mapping of single NK cells identifies a type 1 innate lymphoid-like lineage that bridges innate and adaptive recognition of viral infection. Immunity, 2021, 54, 2288-2304.e7.	14.3	39
9	Dengue virus is sensitive to inhibition prior to productive replication. Cell Reports, 2021, 37, 109801.	6.4	4
10	Do haematopoietic stem cells age?. Nature Reviews Immunology, 2020, 20, 196-202.	22.7	50
11	Chromothripsis in Human Breast Cancer. Cancer Research, 2020, 80, 4918-4931.	0.9	11
12	Resolving Fates and Single-Cell Transcriptomes of Hematopoietic Stem Cell Clones by PolyloxExpress Barcoding. Cell Stem Cell, 2020, 27, 383-395.e8.	11.1	88
13	Early emergence of T central memory precursors programs clonal dominance during chronic viral infection. Nature Immunology, 2020, 21, 1563-1573.	14.5	38
14	Single-Cell Tracing Dissects Regulation of Maintenance and Inheritance of Transcriptional Reinduction Memory. Molecular Cell, 2020, 78, 915-925.e7.	9.7	18
15	Single-Cell RNA Sequencing of Tumor-Infiltrating NK Cells Reveals that Inhibition of Transcription Factor HIF-11± Unleashes NK Cell Activity. Immunity, 2020, 52, 1075-1087.e8.	14.3	167
16	Hidden long-range memories of growth and cycle speed correlate cell cycles in lineage trees. ELife, 2020, 9, .	6.0	19
17	Prospective isolation of nonhematopoietic cells of the niche and their differential molecular interactions with HSCs. Blood, 2019, 134, 1214-1226.	1.4	27
18	A Missing Switch in Peptide Exchange for MHC Class II Molecules. Frontiers in Immunology, 2019, 10, 2513.	4.8	5

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19	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). European Journal of Immunology, 2019, 49, 1457-1973.	2.9	766
20	Using Cre-recombinase-driven Polylox barcoding for in vivo fate mapping in mice. Nature Protocols, 2019, 14, 1820-1840.	12.0	21
21	Evolutionary Trajectories of IDHWT Glioblastomas Reveal a Common Path of Early Tumorigenesis Instigated Years ahead of Initial Diagnosis. Cancer Cell, 2019, 35, 692-704.e12.	16.8	172
22	Inferring growth and genetic evolution of tumors from genome sequences. Current Opinion in Systems Biology, 2019, 16, 1-9.	2.6	0
23	Stem cell homeostasis by integral feedback through the niche. Journal of Theoretical Biology, 2019, 481, 100-109.	1.7	14
24	Optogenetic control shows that kinetic proofreading regulates the activity of the T cell receptor. ELife, 2019, 8, .	6.0	82
25	Modelling Single Cell B-Cell Receptor Signaling Reveals Enhanced Activity in Primary CLL Cells Compared to Non-Malignant Cells While Fundamental Network Circuit Topology Remains Stable Even with Novel Therapeutic Inhibitors. Blood, 2019, 134, 4275-4275.	1.4	0
26	Frequency Modulation of Transcriptional Bursting Enables Sensitive and Rapid Gene Regulation. Cell Systems, 2018, 6, 409-423.e11.	6.2	74
27	Whither systems medicine?. Experimental and Molecular Medicine, 2018, 50, e453-e453.	7.7	49
28	Clonal selection drives protective memory B cell responses in controlled human malaria infection. Science Immunology, 2018, 3, .	11.9	132
29	SETD1A protects HSCs from activation-induced functional decline in vivo. Blood, 2018, 131, 1311-1324.	1.4	47
30	Phenotypic memory in Bacillus subtilis links dormancy entry and exit by a spore quantity-quality tradeoff. Nature Communications, 2018, 9, 69.	12.8	73
31	Differential induction of interferon stimulated genes between type I and type III interferons is independent of interferon receptor abundance. PLoS Pathogens, 2018, 14, e1007420.	4.7	100
32	Differentiation-based model of hematopoietic stem cell functions and lineage pathways. Blood, 2018, 132, 1106-1113.	1.4	55
33	Antiviral interferon response at singleâ€cell resolution. Immunological Reviews, 2018, 285, 72-80.	6.0	25
34	Abstract 4973: MYCN mediates cysteine addiction and sensitizes to ferroptosis in cancer cells. , 2018, , .		0
35	GVHD Is Sustained By T Cell Maintenance within Target Tissues: Insights from Clonal Tracking and Parabiosis. Blood, 2018, 132, 809-809.	1.4	0
36	The Allostery Model of TCR Regulation. Journal of Immunology, 2017, 198, 47-52.	0.8	42

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37	Protein abundance of AKT and ERK pathway components governs cell typeâ€specific regulation ofÂproliferation. Molecular Systems Biology, 2017, 13, 904.	7.2	72
38	TCR Signal Quality Modulates Fate Decisions of Single CD4 + T Cells in a Probabilistic Manner. Cell Reports, 2017, 20, 806-818.	6.4	57
39	Polylox barcoding reveals haematopoietic stem cell fates realized in vivo. Nature, 2017, 548, 456-460.	27.8	312
40	Robust classification of single-cell transcriptome data by nonnegative matrix factorization. Bioinformatics, 2017, 33, 235-242.	4.1	103
41	Cell-Cycle Position of Single MYC-Driven Cancer Cells Dictates Their Susceptibility to a Chemotherapeutic Drug. Cell Systems, 2017, 5, 237-250.e8.	6.2	58
42	Strategies for structuring interdisciplinary education in Systems Biology: an European perspective. Npj Systems Biology and Applications, 2016, 2, 16011.	3.0	21
43	A Cholesterol-Based Allostery Model of T Cell Receptor Phosphorylation. Immunity, 2016, 44, 1091-1101.	14.3	183
44	Fate Mapping and Quantitation of Hematopoiesis In Vivo. Annual Review of Immunology, 2016, 34, 449-478.	21.8	57
45	Integrative Genome-Scale Analysis Identifies Epigenetic Mechanisms of Transcriptional Deregulation in Unfavorable Neuroblastomas. Cancer Research, 2016, 76, 5523-5537.	0.9	83
46	Identification of a tumor-reactive T-cell repertoire in the immune infiltrate of patients with resectable pancreatic ductal adenocarcinoma. OncoImmunology, 2016, 5, e1240859.	4.6	75
47	Output without input: the lifelong productivity of hematopoietic stem cells. Current Opinion in Cell Biology, 2016, 43, 69-77.	5.4	15
48	Minichromosome Maintenance Complex Is a Critical Node in the miR-183 Signaling Network of <i>MYCN</i> -Amplified Neuroblastoma Cells. Journal of Proteome Research, 2016, 15, 2178-2186.	3.7	6
49	Stem-cell dynamics and lineage topology from in vivo fate mapping in the hematopoietic system. Current Opinion in Biotechnology, 2016, 39, 150-156.	6.6	14
50	Live Cell Analysis and Mathematical Modeling Identify Determinants of Attenuation of Dengue Virus 2'-O-Methylation Mutant. PLoS Pathogens, 2015, 11, e1005345.	4.7	49
51	Fundamental properties of unperturbed haematopoiesis from stem cells in vivo. Nature, 2015, 518, 542-546.	27.8	607
52	Individual T Helper Cells Have a Quantitative Cytokine Memory. Immunity, 2015, 42, 108-122.	14.3	38
53	CCND1–CDK4–mediated cell cycle progression provides a competitive advantage for human hematopoietic stem cells in vivo. Journal of Experimental Medicine, 2015, 212, 1171-1183.	8.5	50
54	Three-Dimensional Gradients of Cytokine Signaling between T Cells. PLoS Computational Biology, 2015, 11, e1004206.	3.2	79

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55	Telomerase activation by genomic rearrangements in high-risk neuroblastoma. Nature, 2015, 526, 700-704.	27.8	478
56	CD8+ T cell diversification by asymmetric cell division. Nature Immunology, 2015, 16, 891-893.	14.5	44
57	CCND1–CDK4–mediated cell cycle progression provides a competitive advantage for human hematopoietic stem cells in vivo. Journal of Cell Biology, 2015, 210, 2102OIA144.	5.2	0
58	Robustness of DNA Repair through Collective Rate Control. PLoS Computational Biology, 2014, 10, e1003438.	3.2	17
59	Hormone-Induced Calcium Oscillations Depend on Cross-Coupling with Inositol 1,4,5-Trisphosphate Oscillations. Cell Reports, 2014, 9, 1209-1218.	6.4	47
60	Specificity, propagation, and memory of pericentric heterochromatin. Molecular Systems Biology, 2014, 10, 746.	7.2	80
61	Nucleosome repositioning links DNA (de)methylation and differential CTCF binding during stem cell development. Genome Research, 2014, 24, 1285-1295.	5.5	130
62	Serial Transfer of Single-Cell-Derived Immunocompetence Reveals Stemness of CD8+ Central Memory T Cells. Immunity, 2014, 41, 116-126.	14.3	290
63	Constitutive IDO expression in human cancer is sustained by an autocrine signaling loop involving IL-6, STAT3 and the AHR. Oncotarget, 2014, 5, 1038-1051.	1.8	248
64	Disparate Individual Fates Compose Robust CD8 <sup>+</sup> T Cell Immunity. Science, 2013, 340, 630-635.	12.6	364
65	Stable T-bet+GATA-3+ Th1/Th2 Hybrid Cells Arise In Vivo, Can Develop Directly from Naive Precursors, and Limit Immunopathologic Inflammation. PLoS Biology, 2013, 11, e1001633.	5.6	147
66	The <i>Neurospora</i> photoreceptor VIVID exerts negative and positive control on light sensing to achieve adaptation. Molecular Systems Biology, 2013, 9, 667.	7.2	32
67	Competition for IL-2 between Regulatory and Effector T Cells to Chisel Immune Responses. Frontiers in Immunology, 2012, 3, 268.	4.8	96
68	Heterogeneous kinetics of AKT signaling in individual cells are accounted for by variable protein concentration. Frontiers in Physiology, 2012, 3, 451.	2.8	43
69	Multiâ€layered stochasticity and paracrine signal propagation shape the typeâ€l interferon response. Molecular Systems Biology, 2012, 8, 584.	7.2	139
70	Genome-wide nucleosome positioning during embryonic stem cell development. Nature Structural and Molecular Biology, 2012, 19, 1185-1192.	8.2	245
71	Systems biology for biomedical innovation. Biotechnology Advances, 2012, 30, 1-3.	11.7	6
72	Circadian Conformational Change of the Neurospora Clock Protein FREQUENCY Triggered by Clustered Hyperphosphorylation of a Basic Domain. Molecular Cell, 2011, 43, 713-722.	9.7	111

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73	A Global Circadian Repressor Controls Antiphasic Expression of Metabolic Genes in Neurospora. Molecular Cell, 2011, 44, 687-697.	9.7	81
74	Quantitative Analysis of Protein Phosphorylations and Interactions by Multi-Colour IP-FCM as an Input for Kinetic Modelling of Signalling Networks. PLoS ONE, 2011, 6, e22928.	2.5	10
75	Timing control in regulatory networks by multisite protein modifications. Trends in Cell Biology, 2010, 20, 634-641.	7.9	31
76	Constitutively Active Lck Kinase in T Cells Drives Antigen Receptor Signal Transduction. Immunity, 2010, 32, 766-777.	14.3	300
77	The microRNA miR-182 is induced by IL-2 and promotes clonal expansion of activated helper T lymphocytes. Nature Immunology, 2010, 11, 1057-1062.	14.5	304
78	Stochastic and reversible assembly of a multiprotein DNA repair complex ensures accurate target site recognition and efficient repair. Journal of Cell Biology, 2010, 189, 445-463.	5.2	114
79	Mathematical Modelling of DNA Replication Reveals a Trade-off between Coherence of Origin Activation and Robustness against Rereplication. PLoS Computational Biology, 2010, 6, e1000783.	3.2	37
80	Shortâ€ŧerm memory in gene induction reveals the regulatory principle behind stochastic ILâ€4 expression. Molecular Systems Biology, 2010, 6, 359.	7.2	78
81	Competing feedback loops shape IL-2 signaling between helper and regulatory T lymphocytes in cellular microenvironments. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3058-3063.	7.1	243
82	Assembly of multiprotein complexes that control genome function. Journal of Cell Biology, 2009, 185, 21-26.	5.2	41
83	Phosphorylation modulates rapid nucleocytoplasmic shuttling and cytoplasmic accumulation of <i>Neurospora</i> clock protein FRQ on a circadian time scale. Genes and Development, 2009, 23, 2192-2200.	5.9	46
84	SysBioMed report: Advancing systems biology for medical applications. IET Systems Biology, 2009, 3, 131-136.	1.5	27
85	Multisite protein phosphorylation – from molecular mechanisms to kinetic models. FEBS Journal, 2009, 276, 3177-3198.	4.7	229
86	Modelling and simulating interleukinâ€10 production and regulation by macrophages after stimulation with an immunomodulator of parasitic nematodes. FEBS Journal, 2009, 276, 3454-3469.	4.7	11
87	Molecular networks and system-level properties. Journal of Biotechnology, 2009, 144, 224-233.	3.8	37
88	Sequential Polarization and Imprinting of Type 1 T Helper Lymphocytes by Interferon-Î <sup>3</sup> and Interleukin-12. Immunity, 2009, 30, 673-683.	14.3	231
89	Decoding of Calcium Oscillations by Phosphorylation Cycles: Analytic Results. Biophysical Journal, 2008, 94, 1203-1215.	0.5	78
90	Long-lived virus-reactive memory T cells generated from purified cytokine-secreting T helper type 1 and type 2 effectors. Journal of Experimental Medicine, 2008, 205, 53-61.	8.5	121

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91	Digital NFATc2 Activation per Cell Transforms Graded T Cell Receptor Activation into an All-or-None IL-2 Expression. PLoS ONE, 2007, 2, e935.	2.5	69
92	Competition for cytokines: Treg cells take all. Nature Immunology, 2007, 8, 1285-1287.	14.5	82
93	Versatile regulation of multisite protein phosphorylation by the order of phosphate processing and protein-protein interactions. FEBS Journal, 2007, 274, 1046-1061.	4.7	69
94	Cellular calcium oscillations: From bifurcation analysis to experiment. World Scientific Lecture Notes in Complex Systems, 2007, , 115-134.	0.1	0
95	Models of IP3 and Ca2+ Oscillations: Frequency Encoding and Identification of Underlying Feedbacks. Biophysical Journal, 2006, 90, 3120-3133.	0.5	143
96	NFATc1 autoregulation: a crucial step for cell-fate determination. Trends in Immunology, 2006, 27, 461-469.	6.8	76
97	Adaptation of humoral memory. Immunological Reviews, 2006, 211, 295-302.	6.0	73
98	Competition Effects Shape the Response Sensitivity and Kinetics of Phosphorylation Cycles in Cell Signaling. Annals of the New York Academy of Sciences, 2006, 1091, 517-530.	3.8	21
99	Kinetic models of phosphorylation cycles: A systematic approach using the rapid-equilibrium approximation for protein–protein interactions. BioSystems, 2006, 83, 195-206.	2.0	41
100	Regulation of CD4 <sup>+</sup> CD25 <sup>+</sup> regulatory T cell activity: it takes (ILâ€)two to tango. European Journal of Immunology, 2005, 35, 1336-1341.	2.9	152
101	Activation of the transcription factor NFAT1: concerted or modular regulation?. FEBS Letters, 2005, 579, 621-626.	2.8	11
102	On the kinetic design of transcription. Genome Informatics, 2005, 16, 73-82.	0.4	7
103	Transcriptional control networks of cell differentiation: insights from helper T lymphocytes. Progress in Biophysics and Molecular Biology, 2004, 86, 45-76.	2.9	66
104	Modelling of Periodic Intercellular Ca2+ Waves. , 2004, , 99-110.		0
105	Allosteric Regulation of the Transcription Factor NFAT1 by Multiple Phosphorylation Sites: A Mathematical Analysis. Journal of Molecular Biology, 2003, 327, 31-45.	4.2	82
106	GATA-3 transcriptional imprinting in Th2 lymphocytes: A mathematical model. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9364-9368.	7.1	78
107	Control and Plasticity of Intercellular Calcium Waves in Astrocytes: A Modeling Approach. Journal of Neuroscience, 2002, 22, 4850-4859.	3.6	210
108	Modelling of simple and complex calcium oscillations. FEBS Journal, 2002, 269, 1333-1355.	0.2	354

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109	Intercellular Ca2+ Wave Propagation through Gap-Junctional Ca2+ Diffusion: A Theoretical Study. Biophysical Journal, 2001, 80, 75-87.	0.5	109
110	Chemotaxis and aggregation in the cellular slime mould. , 1999, , 137-150.		0
111	Model of Intercellular Calcium Oscillations in Hepatocytes: Synchronization of Heterogeneous Cells. Biophysical Journal, 1999, 77, 1244-1256.	0.5	147
112	Streaming instability of slime mold amoebae: An analytical model. Physical Review E, 1997, 56, 2074-2080.	2.1	29
113	Turing patterns in fish skin?. Nature, 1996, 380, 678-678.	27.8	15
114	INTERPLAY OF CELL-CELL SIGNALLING AND MULTICELLULAR MORPHOGENESIS DURING DICTYOSTELIUM AGGREGATION. , 1996, , 15-28.		1
115	Cellular pattern formation during Dictyostelium aggregation. Physica D: Nonlinear Phenomena, 1995, 85, 425-444.	2.8	112
116	Use of convex analysis for the modelling of biochemical reaction systems. Lecture Notes in Control and Information Sciences, 1994, , 365-374.	1.0	0
117	A Second-order Approach to Metabolic Control Analysis. Journal of Theoretical Biology, 1993, 164, 85-102.	1.7	29
118	Determining all extreme semi-positive conservation relations in chemical reaction systems: a test criterion for conservativity. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 2561-2566.	1.7	62
119	Protocol for the use of Polylox – endogenous barcoding for high resolution in vivo lineage tracing. Protocol Exchange, 0, , .	0.3	1