

Joost B Beltman

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

2,811
citations

279701

23
h-index

254106

43
g-index

51
all docs

51
docs citations

51
times ranked

5203
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneous Differentiation Patterns of Individual CD8 ⁺ T Cells. <i>Science</i> , 2013, 340, 635-639.	6.0	320
2	Adverse outcome pathways: opportunities, limitations and open questions. <i>Archives of Toxicology</i> , 2017, 91, 3477-3505.	1.9	282
3	MHC polymorphism under host-pathogen coevolution. <i>Immunogenetics</i> , 2004, 55, 732-739.	1.2	235
4	Tissue-resident memory CD8 ⁺ T cells continuously patrol skin epithelia to quickly recognize local antigen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19739-19744.	3.3	230
5	Analysing immune cell migration. <i>Nature Reviews Immunology</i> , 2009, 9, 789-798.	10.6	216
6	Lymph node topology dictates T cell migration behavior. <i>Journal of Experimental Medicine</i> , 2007, 204, 771-780.	4.2	203
7	TIL therapy broadens the tumor-reactive CD8 ⁺ T cell compartment in melanoma patients. <i>Oncolmmunology</i> , 2012, 1, 409-418.	2.1	171
8	Combination Approaches with Immune-Checkpoint Blockade in Cancer Therapy. <i>Frontiers in Oncology</i> , 2016, 6, 233.	1.3	148
9	Single-cell imaging of CAR T cell activity in vivo reveals extensive functional and anatomical heterogeneity. <i>Journal of Experimental Medicine</i> , 2019, 216, 1038-1049.	4.2	109
10	A committed tissue-resident memory T cell precursor within the circulating CD8 ⁺ effector T cell pool. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	72
11	ATF6 Is a Critical Determinant of CHOP Dynamics during the Unfolded Protein Response. <i>IScience</i> , 2020, 23, 100860.	1.9	72
12	Subtle CXCR3-Dependent Chemotaxis of CTLs within Infected Tissue Allows Efficient Target Localization. <i>Journal of Immunology</i> , 2015, 195, 5285-5295.	0.4	66
13	Tissue patrol by resident memory CD8 ⁺ T cells in human skin. <i>Nature Immunology</i> , 2019, 20, 756-764.	7.0	59
14	Quorum Regulation via Nested Antagonistic Feedback Circuits Mediated by the Receptors CD28 and CTLA-4 Confers Robustness to T Cell Population Dynamics. <i>Immunity</i> , 2020, 52, 313-327.e7.	6.6	54
15	Random Migration and Signal Integration Promote Rapid and Robust T Cell Recruitment. <i>PLoS Computational Biology</i> , 2014, 10, e1003752.	1.5	52
16	Spatial modelling of brief and long interactions between T cells and dendritic cells. <i>Immunology and Cell Biology</i> , 2007, 85, 306-314.	1.0	51
17	A General Functional Response of Cytotoxic T Lymphocyte-Mediated Killing of Target Cells. <i>Biophysical Journal</i> , 2014, 106, 1780-1791.	0.2	50
18	Deciphering Epithelial-Mesenchymal Transition Regulatory Networks in Cancer through Computational Approaches. <i>Frontiers in Oncology</i> , 2017, 7, 162.	1.3	49

#	ARTICLE	IF	CITATIONS
19	B cells within germinal centers migrate preferentially from dark to light zone. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8755-8760.	3.3	43
20	Towards estimating the true duration of dendritic cell interactions with T cells. Journal of Immunological Methods, 2009, 347, 54-69.	0.6	39
21	Chemotactic Migration of T Cells towards Dendritic Cells Promotes the Detection of Rare Antigens. PLoS Computational Biology, 2012, 8, e1002763.	1.5	37
22	Application of three approaches for quantitative AOP development to renal toxicity. Computational Toxicology, 2019, 11, 1-13.	1.8	36
23	A systematic analysis of Nrf2 pathway activation dynamics during repeated xenobiotic exposure. Archives of Toxicology, 2019, 93, 435-451.	1.9	25
24	What do mathematical models tell us about killing rates during HIV-1 infection?. Immunology Letters, 2015, 168, 1-6.	1.1	19
25	Contact-Dependent Killing by Cytotoxic T Lymphocytes Is Insufficient for EL4 Tumor Regression <i>In Vivo</i> . Cancer Research, 2019, 79, 3406-3416.	0.4	19
26	Unraveling cellular pathways contributing to drug-induced liver injury by dynamical modeling. Expert Opinion on Drug Metabolism and Toxicology, 2017, 13, 5-17.	1.5	17
27	Reproducibility of Illumina platform deep sequencing errors allows accurate determination of DNA barcodes in cells. BMC Bioinformatics, 2016, 17, 151.	1.2	14
28	A Sigmoid Functional Response Emerges When Cytotoxic T Lymphocytes Start Killing Fresh Target Cells. Biophysical Journal, 2017, 112, 1221-1235.	0.2	14
29	Tissue Dimensionality Influences the Functional Response of Cytotoxic T Lymphocyte-Mediated Killing of Targets. Frontiers in Immunology, 2016, 7, 668.	2.2	14
30	Integration of temporal single cell cellular stress response activity with logic-ODE modeling reveals activation of ATF4-CHOP axis as a critical predictor of drug-induced liver injury. Biochemical Pharmacology, 2021, 190, 114591.	2.0	14
31	Dynamic Modeling of Mitochondrial Membrane Potential Upon Exposure to Mitochondrial Inhibitors. Frontiers in Pharmacology, 2021, 12, 679407.	1.6	14
32	Heterogeneous, delayed-onset killing by multiple-hitting T cells: Stochastic simulations to assess methods for analysis of imaging data. PLoS Computational Biology, 2020, 16, e1007972.	1.5	9
33	Stimulation of de novo glutathione synthesis by nitrofurantoin for enhanced resilience of hepatocytes. Cell Biology and Toxicology, 2022, 38, 847-864.	2.4	8
34	High-content high-throughput imaging reveals distinct connections between mitochondrial morphology and functionality for OXPHOS complex I, III, and V inhibitors. Cell Biology and Toxicology, 2023, 39, 415-433.	2.4	8
35	Mapping the cellular response to electron transport chain inhibitors reveals selective signaling networks triggered by mitochondrial perturbation. Archives of Toxicology, 2022, 96, 259-285.	1.9	7
36	Dynamic modeling of Nrf2 pathway activation in liver cells after toxicant exposure. Scientific Reports, 2022, 12, 7336.	1.6	7

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37	Quantifying the contribution of transcription factor activity, mutations and microRNAs to CD274 expression in cancer patients. <i>Scientific Reports</i> , 2022, 12, 4374.	1.6	6
38	Density-Dependent Migration Characteristics of Cancer Cells Driven by Pseudopod Interaction. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 854721.	1.8	6
39	Heritable tumor cell division rate heterogeneity induces clonal dominance. <i>PLoS Computational Biology</i> , 2018, 14, e1005954.	1.5	5
40	Mathematical Modelling Based on In Vivo Imaging Suggests CD137-Stimulated Cytotoxic T Lymphocytes Exert Superior Tumour Control Due to an Enhanced Antimitotic Effect on Tumour Cells. <i>Cancers</i> , 2021, 13, 2567.	1.7	4
41	Model-based translation of DNA damage signaling dynamics across cell types. <i>PLoS Computational Biology</i> , 2022, 18, e1010264.	1.5	3
42	Lymph node topology dictates T cell migration behavior. <i>Journal of Cell Biology</i> , 2007, 177, i2-i2.	2.3	1
43	Title is missing!. , 2020, 16, e1007972.		0
44	Title is missing!. , 2020, 16, e1007972.		0
45	Title is missing!. , 2020, 16, e1007972.		0
46	Title is missing!. , 2020, 16, e1007972.		0