Joost B Beltman

List of Publications by Year
in descending order

46 papers	2,811 citations	279798 23 h-index	254184 43 g-index
51 all docs	51 docs citations	51 times ranked	5203 citing authors

#	Article	IF	Citations
1	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.	5.3	8
2	Stimulation of de novo glutathione synthesis by nitrofurantoin for enhanced resilience of hepatocytes. Cell Biology and Toxicology, 2022, 38, 847-864.	5.3	8
3	Mapping the cellular response to electron transport chain inhibitors reveals selective signaling networks triggered by mitochondrial perturbation. Archives of Toxicology, 2022, 96, 259-285.	4.2	7
4	Quantifying the contribution of transcription factor activity, mutations and microRNAs to CD274 expression in cancer patients. Scientific Reports, 2022, 12, 4374.	3.3	6
5	Density-Dependent Migration Characteristics of Cancer Cells Driven by Pseudopod Interaction. Frontiers in Cell and Developmental Biology, 2022, 10, 854721.	3.7	6
6	Dynamic modeling of Nrf2 pathway activation in liver cells after toxicant exposure. Scientific Reports, 2022, 12, 7336.	3.3	7
7	Model-based translation of DNA damage signaling dynamics across cell types. PLoS Computational Biology, 2022, 18, e1010264.	3.2	3
8	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. Cancers, 2021, 13, 2567.	3.7	4
9	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.	4.4	14
10	Dynamic Modeling of Mitochondrial Membrane Potential Upon Exposure to Mitochondrial Inhibitors. Frontiers in Pharmacology, 2021, 12, 679407.	3.5	14
11	A committed tissue-resident memory T cell precursor within the circulating CD8+ effector T cell pool. Journal of Experimental Medicine, 2020, 217, .	8.5	72
12	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.	3.2	9
13	Quorum Regulation via Nested Antagonistic Feedback Circuits Mediated by the Receptors CD28 and CTLA-4 Confers Robustness to T Cell Population Dynamics. Immunity, 2020, 52, 313-327.e7.	14.3	54
14	ATF6 Is a Critical Determinant of CHOP Dynamics during the Unfolded Protein Response. IScience, 2020, 23, 100860.	4.1	72
15	Title is missing!. , 2020, 16, e1007972.		0
16	Title is missing!. , 2020, 16, e1007972.		0
17	Title is missing!. , 2020, 16, e1007972.		0
18	Title is missing!. , 2020, 16, e1007972.		0

#	Article	IF	Citations
19	Tissue patrol by resident memory CD8+ T cells in human skin. Nature Immunology, 2019, 20, 756-764.	14.5	59
20	Contact-Dependent Killing by Cytotoxic T Lymphocytes Is Insufficient for EL4 Tumor Regression *In Vivo*. Cancer Research, 2019, 79, 3406-3416.	0.9	19
21	Single-cell imaging of CAR T cell activity in vivo reveals extensive functional and anatomical heterogeneity. Journal of Experimental Medicine, 2019, 216, 1038-1049.	8.5	109
22	Application of three approaches for quantitative AOP development to renal toxicity. Computational Toxicology, 2019, 11, 1-13.	3.3	36
23	A systematic analysis of Nrf2 pathway activation dynamics during repeated xenobiotic exposure. Archives of Toxicology, 2019, 93, 435-451.	4.2	25
24	Heritable tumor cell division rate heterogeneity induces clonal dominance. PLoS Computational Biology, 2018, 14, e1005954.	3.2	5
25	A Sigmoid Functional Response Emerges When Cytotoxic T Lymphocytes Start Killing Fresh TargetÂCells. Biophysical Journal, 2017, 112, 1221-1235.	0.5	14
26	Adverse outcome pathways: opportunities, limitations and open questions. Archives of Toxicology, 2017, 91, 3477-3505.	4.2	282
27	Unraveling cellular pathways contributing to drug-induced liver injury by dynamical modeling. Expert Opinion on Drug Metabolism and Toxicology, 2017, 13, 5-17.	3.3	17
28	Deciphering Epithelialâ€"Mesenchymal Transition Regulatory Networks in Cancer through Computational Approaches. Frontiers in Oncology, 2017, 7, 162.	2.8	49
29	Combination Approaches with Immune-Checkpoint Blockade in Cancer Therapy. Frontiers in Oncology, 2016, 6, 233.	2.8	148
30	Reproducibility of Illumina platform deep sequencing errors allows accurate determination of DNA barcodes in cells. BMC Bioinformatics, 2016, 17, 151.	2.6	14
31	Tissue Dimensionality Influences the Functional Response of Cytotoxic T Lymphocyte-Mediated Killing of Targets. Frontiers in Immunology, 2016, 7, 668.	4.8	14
32	What do mathematical models tell us about killing rates during HIV-1 infection?. Immunology Letters, 2015, 168, 1-6.	2.5	19
33	Subtle CXCR3-Dependent Chemotaxis of CTLs within Infected Tissue Allows Efficient Target Localization. Journal of Immunology, 2015, 195, 5285-5295.	0.8	66
34	Random Migration and Signal Integration Promote Rapid and Robust T Cell Recruitment. PLoS Computational Biology, 2014, 10, e1003752.	3.2	52
35	A General Functional Response of Cytotoxic T Lymphocyte-Mediated Killing of Target Cells. Biophysical Journal, 2014, 106, 1780-1791.	0.5	50
36	Heterogeneous Differentiation Patterns of Individual CD8 $^{+}$ T Cells. Science, 2013, 340, 635-639.	12.6	320

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37	Chemotactic Migration of T Cells towards Dendritic Cells Promotes the Detection of Rare Antigens. PLoS Computational Biology, 2012, 8, e1002763.	3.2	37
38	TIL therapy broadens the tumor-reactive CD8$^+$ T cell compartment in melanoma patients. OncoImmunology, 2012, 1, 409-418.	4.6	171
39	Tissue-resident memory CD8 $^+$ T cells continuously patrol skin epithelia to quickly recognize local antigen. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19739-19744.	7.1	230
40	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.	7.1	43
41	Towards estimating the true duration of dendritic cell interactions with T cells. Journal of Immunological Methods, 2009, 347, 54-69.	1.4	39
42	Analysing immune cell migration. Nature Reviews Immunology, 2009, 9, 789-798.	22.7	216
43	Lymph node topology dictates T cell migration behavior. Journal of Experimental Medicine, 2007, 204, 771-780.	8.5	203
44	Spatial modelling of brief and long interactions between T cells and dendritic cells. Immunology and Cell Biology, 2007, 85, 306-314.	2.3	51
45	Lymph node topology dictates T cell migration behavior. Journal of Cell Biology, 2007, 177, i2-i2.	5.2	1
46	MHC polymorphism under host-pathogen coevolution. Immunogenetics, 2004, 55, 732-739.	2.4	235