

# Nathan P Croft

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

2,585  
citations

201575

27  
h-index

214721

47  
g-index

57  
all docs

57  
docs citations

57  
times ranked

3718  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics of Antigen Expression and Epitope Presentation during Virus Infection. <i>PLoS Pathogens</i> , 2013, 9, e1003129.	2.1	173
2	A CD8+ T cell immune evasion protein specific to Epstein-Barr virus and its close relatives in Old World primates. <i>Journal of Experimental Medicine</i> , 2007, 204, 1863-1873.	4.2	154
3	A subset of HLA-I peptides are not genomically templated: Evidence for cis- and trans-spliced peptide ligands. <i>Science Immunology</i> , 2018, 3, .	5.6	142
4	Transcriptional signature in microglia associated with A $\beta$ 2 plaque phagocytosis. <i>Nature Communications</i> , 2021, 12, 3015.	5.8	142
5	A comprehensive review and performance evaluation of bioinformatics tools for HLA class I peptide-binding prediction. <i>Briefings in Bioinformatics</i> , 2020, 21, 1119-1135.	3.2	127
6	Tracking protein aggregation and mislocalization in cells with flow cytometry. <i>Nature Methods</i> , 2012, 9, 467-470.	9.0	111
7	Sizing up the key determinants of the CD8+ T cell response. <i>Nature Reviews Immunology</i> , 2015, 15, 705-716.	10.6	111
8	Epitope Discovery and Their Use in Peptide Based Vaccines. <i>Current Pharmaceutical Design</i> , 2010, 16, 3149-3157.	0.9	104
9	Most viral peptides displayed by class I MHC on infected cells are immunogenic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3112-3117.	3.3	104
10	T cell receptor cross-reactivity between gliadin and bacterial peptides in celiac disease. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 49-61.	3.6	91
11	Specific Targeting of the EBV Lytic Phase Protein BNLF2a to the Transporter Associated with Antigen Processing Results in Impairment of HLA Class I-Restricted Antigen Presentation. <i>Journal of Immunology</i> , 2009, 182, 2313-2324.	0.4	86
12	Stage-Specific Inhibition of MHC Class I Presentation by the Epstein-Barr Virus BNLF2a Protein during Virus Lytic Cycle. <i>PLoS Pathogens</i> , 2009, 5, e1000490.	2.1	80
13	Quantification of epitope abundance reveals the effect of direct and cross-presentation on influenza CTL responses. <i>Nature Communications</i> , 2019, 10, 2846.	5.8	70
14	Constitutive and Inflammatory Immuno-peptidome of Pancreatic $\beta$ 2-Cells. <i>Diabetes</i> , 2012, 61, 3018-3025.	0.3	67
15	Direct quantitation of MHC-bound peptide epitopes by selected reaction monitoring. <i>Proteomics</i> , 2011, 11, 2336-2340.	1.3	66
16	In Immuno-peptidomics We Need a Sniper Instead of a Shotgun. <i>Proteomics</i> , 2018, 18, e1700464.	1.3	60
17	Benchmarking predictions of MHC class I restricted T cell epitopes in a comprehensively studied model system. <i>PLoS Computational Biology</i> , 2020, 16, e1007757.	1.5	60
18	HLA Peptide Length Preferences Control CD8+T Cell Responses. <i>Journal of Immunology</i> , 2013, 191, 561-571.	0.4	57

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19	The Cellular Redox Environment Alters Antigen Presentation. <i>Journal of Biological Chemistry</i> , 2014, 289, 27979-27991.	1.6	52
20	A comprehensive analysis of constitutive naturally processed and presented <i><sc>HLA</sc></i> (Cw4) specific peptides. <i>Tissue Antigens</i> , 2014, 83, 174-179.	1.0	47
21	Spliced Peptides and Cytokine-Driven Changes in the Immunopeptidome of Melanoma. <i>Cancer Immunology Research</i> , 2020, 8, 1322-1334.	1.6	45
22	Conserved Features in the Structure, Mechanism, and Biogenesis of the Inverse Autotransporter Protein Family. <i>Genome Biology and Evolution</i> , 2016, 8, 1690-1705.	1.1	40
23	Anthem: a user customised tool for fast and accurate prediction of binding between peptides and HLA class I molecules. <i>Briefings in Bioinformatics</i> , 2021, 22, .	3.2	37
24	Human Leukocyte Antigen (HLA) B27 Allotype-Specific Binding and Candidate Arthritogenic Peptides Revealed through Heuristic Clustering of Data-independent Acquisition Mass Spectrometry (DIA-MS) Data. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 1867-1876.	2.5	35
25	Peptidomimetics: modifying peptides in the pursuit of better vaccines. <i>Expert Review of Vaccines</i> , 2011, 10, 211-226.	2.0	33
26	Quantifying epitope presentation using mass spectrometry. <i>Molecular Immunology</i> , 2015, 68, 77-80.	1.0	32
27	HLA-B57 micropolymorphism defines the sequence and conformational breadth of the immunopeptidome. <i>Nature Communications</i> , 2018, 9, 4693.	5.8	31
28	Characterization of the Antigen Processing Machinery and Endogenous Peptide Presentation of a Bat MHC Class I Molecule. <i>Journal of Immunology</i> , 2016, 196, 4468-4476.	0.4	30
29	Immunology by numbers: quantitation of antigen presentation completes the quantitative milieu of systems immunology!. <i>Current Opinion in Immunology</i> , 2016, 40, 88-95.	2.4	30
30	mRNA Structural Constraints on EBNA1 Synthesis Impact on In Vivo Antigen Presentation and Early Priming of CD8+ T Cells. <i>PLoS Pathogens</i> , 2014, 10, e1004423.	2.1	28
31	The primary immune response to Vaccinia virus vaccination includes cells with a distinct cytotoxic effector CD4 T-cell phenotype. <i>Vaccine</i> , 2016, 34, 5251-5261.	1.7	28
32	Isolation of T cell receptors targeting recurrent neoantigens in hematological malignancies. , 2018, 6, 70.		28
33	A comprehensive analysis of peptides presented by HLA A1. <i>Tissue Antigens</i> , 2015, 85, 492-496.	1.0	27
34	A Systems Approach to Understand Antigen Presentation and the Immune Response. <i>Methods in Molecular Biology</i> , 2016, 1394, 189-209.	0.4	27
35	Response to Comment on "A subset of HLA-I peptides are not genomically templated: Evidence for cis- and trans-spliced peptide ligands". <i>Science Immunology</i> , 2019, 4, .	5.6	25
36	Immunopeptidomic Analysis Reveals That Deamidated HLA-bound Peptides Arise Predominantly from Deglycosylated Precursors. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 1236-1247.	2.5	25

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37	IFN $\gamma$ Modulates the Immuno-peptidome of Triple Negative Breast Cancer Cells by Enhancing and Diversifying Antigen Processing and Presentation. <i>Frontiers in Immunology</i> , 2021, 12, 645770.	2.2	25
38	Simultaneous Quantification of Viral Antigen Expression Kinetics Using Data-Independent (DIA) Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 1361-1372.	2.5	24
39	Employing proteomics in the study of antigen presentation: an update. <i>Expert Review of Proteomics</i> , 2018, 15, 637-645.	1.3	23
40	T Cell Cross-Reactivity between a Highly Immunogenic EBV Epitope and a Self-Peptide Naturally Presented by HLA-B*18:01+ Cells. <i>Journal of Immunology</i> , 2015, 194, 4668-4675.	0.4	14
41	Thermostability profiling of MHC-bound peptides: a new dimension in immuno-peptidomics and aid for immunotherapy design. <i>Nature Communications</i> , 2020, 11, 6305.	5.8	14
42	An HLA-A2-Restricted T-Cell Epitope Mapped to the BNLF2a Immune Evasion Protein of Epstein-Barr Virus That Inhibits TAP. <i>Journal of Virology</i> , 2009, 83, 2783-2788.	1.5	11
43	Discovery of Novel Disease-specific and Membrane-associated Candidate Markers in a Mouse Model of Multiple Sclerosis. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 679-700.	2.5	10
44	Structural and Functional Correlates of Enhanced Antiviral Immunity Generated by Heteroclitic CD8 T Cell Epitopes. <i>Journal of Immunology</i> , 2014, 192, 5245-5256.	0.4	9
45	Overlapping Peptides Elicit Distinct CD8+ T Cell Responses following Influenza A Virus Infection. <i>Journal of Immunology</i> , 2020, 205, 1731-1742.	0.4	9
46	Kinetics of Abacavir-Induced Remodelling of the Major Histocompatibility Complex Class I Peptide Repertoire. <i>Frontiers in Immunology</i> , 2021, 12, 672737.	2.2	8
47	Resourcing, annotating, and analysing synthetic peptides of SARS-CoV-2 for immuno-peptidomics and other immunological studies. <i>Proteomics</i> , 2021, 21, e2100036.	1.3	7
48	The Use of CRISPR/Cas9 Gene Editing to Confirm Congenic Contaminations in Host-Pathogen Interaction Studies. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 87.	1.8	3
49	Peptide Presentation to T Cells: Solving the Immunogenic Puzzle. <i>BioEssays</i> , 2020, 42, 1900200.	1.2	3
50	Novel Tumor Derived Peptides in Vaccines. , 2013, , 580-589.		2
51	Direct Priming of CD8 <sup>+</sup> T Cells Persists in the Face of Cowpox Virus Inhibitors of Antigen Presentation. <i>Journal of Virology</i> , 2021, 95, .	1.5	2
52	Enhancing tumor vaccines: catalyzing MHC class II peptide exchange. <i>Expert Review of Vaccines</i> , 2010, 9, 129-132.	2.0	0
53	Using mass spectrometry to monitor drug induced changes in antigen presentation by the human leukocyte antigen. <i>Clinical and Translational Allergy</i> , 2014, 4, P43.	1.4	0
54	A Novel Humanized Murine Model to Identify Neoantigen-Specific T Cells in CBFA2T3-GLIS2 Positive Acute Megakaryoblastic Leukemia. <i>Blood</i> , 2021, 138, 1708-1708.	0.6	0