

Alexander N R Weber

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6524276/publications.pdf>

Version: 2024-02-01

76
papers

4,832
citations

109321

35
h-index

102487

66
g-index

79
all docs

79
docs citations

79
times ranked

7957
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutrophils: Between Host Defence, Immune Modulation, and Tissue Injury. <i>PLoS Pathogens</i> , 2015, 11, e1004651.	4.7	532
2	Binding of the <i>Drosophila</i> cytokine Spätzle to Toll is direct and establishes signaling. <i>Nature Immunology</i> , 2003, 4, 794-800.	14.5	412
3	Toll and IMD Pathways Synergistically Activate an Innate Immune Response in <i>Drosophila melanogaster</i> . <i>Molecular and Cellular Biology</i> , 2007, 27, 4578-4588.	2.3	304
4	Bruton's Tyrosine Kinase: An Emerging Key Player in Innate Immunity. <i>Frontiers in Immunology</i> , 2017, 8, 1454.	4.8	201
5	The NLRP3 inflammasome drives inflammation in ischemia/reperfusion injury after transient middle cerebral artery occlusion in mice. <i>Brain, Behavior, and Immunity</i> , 2021, 92, 221-231.	4.1	174
6	Cellular Innate Immunity: An Old Game with New Players. <i>Journal of Innate Immunity</i> , 2017, 9, 111-125.	3.8	171
7	Toll-like receptors as molecular switches. <i>Nature Reviews Immunology</i> , 2006, 6, 693-698.	22.7	160
8	Neutrophil extracellular trap-associated RNA and LL37 enable self-amplifying inflammation in psoriasis. <i>Nature Communications</i> , 2020, 11, 105.	12.8	146
9	Serine/threonine acetylation of TGF β -activated kinase (TAK1) by <i>Yersinia pestis</i> YopJ inhibits innate immune signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12710-12715.	7.1	144
10	Toll-dependent antimicrobial responses in <i>Drosophila</i> larval fat body require Spaetzle secreted by haemocytes. <i>Journal of Cell Science</i> , 2009, 122, 4505-4515.	2.0	127
11	Four N-linked Glycosylation Sites in Human Toll-like Receptor 2 Cooperate to Direct Efficient Biosynthesis and Secretion. <i>Journal of Biological Chemistry</i> , 2004, 279, 34589-34594.	3.4	112
12	Human NACHT, LRR, and PYD domain-containing protein 3 (NLRP3) inflammasome activity is regulated by and potentially targetable through Bruton tyrosine kinase. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 140, 1054-1067.e10.	2.9	105
13	The Crystal Structure of Lipopolysaccharide Binding Protein Reveals the Location of a Frequent Mutation that Impairs Innate Immunity. <i>Immunity</i> , 2013, 39, 647-660.	14.3	102
14	Pathogenic Fungi Regulate Immunity by Inducing Neutrophilic Myeloid-Derived Suppressor Cells. <i>Cell Host and Microbe</i> , 2015, 17, 507-514.	11.0	99
15	B-cell-specific conditional expression of Myd88p.L252P leads to the development of diffuse large B-cell lymphoma in mice. <i>Blood</i> , 2016, 127, 2732-2741.	1.4	99
16	Sensing of Gram-positive bacteria in <i>Drosophila</i> : GNBPI is needed to process and present peptidoglycan to PGRP-SA. <i>EMBO Journal</i> , 2006, 25, 5005-5014.	7.8	88
17	Identification of an N-Terminal Recognition Site in TLR9 That Contributes to CpG-DNA-Mediated Receptor Activation. <i>Journal of Immunology</i> , 2009, 182, 7690-7697.	0.8	81
18	NLRP3 Inflammasome Assembly in Neutrophils Is Supported by PAD4 and Promotes NETosis Under Sterile Conditions. <i>Frontiers in Immunology</i> , 2021, 12, 683803.	4.8	79

#	ARTICLE	IF	CITATIONS
19	The fungal ligand chitin directly binds <sc>TLR</sc> 2 and triggers inflammation dependent on oligomer size. EMBO Reports, 2018, 19, .	4.5	75
20	The NLRP3 inflammasome and bruton's tyrosine kinase in platelets co-regulate platelet activation, aggregation, and in vitro thrombus formation. Biochemical and Biophysical Research Communications, 2017, 483, 230-236.	2.1	74
21	Ligand-Receptor and Receptor-Receptor Interactions Act in Concert to Activate Signaling in the Drosophila Toll Pathway. Journal of Biological Chemistry, 2005, 280, 22793-22799.	3.4	69
22	Activation of lymphoma-associated MyD88 mutations via allostery-induced TIR-domain oligomerization. Blood, 2014, 124, 3896-3904.	1.4	69
23	Structural Insight into the Mechanism of Activation of the Toll Receptor by the Dimeric Ligand SpÄtzle. Journal of Biological Chemistry, 2008, 283, 14629-14635.	3.4	67
24	Two Human MYD88 Variants, S34Y and R98C, Interfere with MyD88-IRAK4-Myddosome Assembly. Journal of Biological Chemistry, 2011, 286, 1341-1353.	3.4	67
25	Association of Inherited Variation in Toll-Like Receptor Genes with Malignant Melanoma Susceptibility and Survival. PLoS ONE, 2011, 6, e24370.	2.5	58
26	Recent insights into the regulatory networks of NLRP3 inflammasome activation. Journal of Cell Science, 2020, 133, .	2.0	55
27	Modulation of the CD95-Induced Apoptosis: The Role of CD95 N-Glycosylation. PLoS ONE, 2011, 6, e19927.	2.5	54
28	Functional TLR5 Genetic Variants Affect Human Colorectal Cancer Survival. Cancer Research, 2013, 73, 7232-7242.	0.9	52
29	The role of chitin, chitinases, and chitinase-like proteins in pediatric lung diseases. Molecular and Cellular Pediatrics, 2015, 2, 3.	1.8	52
30	Danger Signaling Protein HMGB1 Induces a Distinct Form of Cell Death Accompanied by Formation of Giant Mitochondria. Cancer Research, 2010, 70, 8558-8568.	0.9	51
31	Role of the SpÄtzle Pro-domain in the Generation of an Active Toll Receptor Ligand. Journal of Biological Chemistry, 2007, 282, 13522-13531.	3.4	48
32	Study of Human RIG-I Polymorphisms Identifies Two Variants with an Opposite Impact on the Antiviral Immune Response. PLoS ONE, 2009, 4, e7582.	2.5	48
33	Gadd45a Is an RNA Binding Protein and Is Localized in Nuclear Speckles. PLoS ONE, 2011, 6, e14500.	2.5	47
34	Neutrophils Express Distinct RNA Receptors in a Non-canonical Way. Journal of Biological Chemistry, 2012, 287, 19409-19417.	3.4	47
35	A new synthetic toll-like receptor 1/2 ligand is an efficient adjuvant for peptide vaccination in a human volunteer. , 2019, 7, 307.		39
36	RNA and Imidazoquinolines Are Sensed by Distinct TLR7/8 Ectodomain Sites Resulting in Functionally Disparate Signaling Events. Journal of Immunology, 2014, 192, 5963-5973.	0.8	38

#	ARTICLE	IF	CITATIONS
37	The Bruton tyrosine kinase inhibitor ibrutinib abrogates triggering receptor on myeloid cells 1-mediated neutrophil activation. <i>Haematologica</i> , 2017, 102, e191-e194.	3.5	38
38	BTK operates a phospho-tyrosine switch to regulate NLRP3 inflammasome activity. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	33
39	<i>Staphylococcus aureus</i> Skin Colonization Is Enhanced by the Interaction of Neutrophil Extracellular Traps with Keratinocytes. <i>Journal of Investigative Dermatology</i> , 2020, 140, 1054-1065.e4.	0.7	32
40	MyD88 Adaptor-Like D96N Is a Naturally Occurring Loss-of-Function Variant of <i>TIRAP</i> . <i>Journal of Immunology</i> , 2010, 184, 3025-3032.	0.8	31
41	The NLR family pyrin domain-containing 11 protein contributes to the regulation of inflammatory signaling. <i>Journal of Biological Chemistry</i> , 2018, 293, 2701-2710.	3.4	29
42	Platelets Aggregate With Neutrophils and Promote Skin Pathology in Psoriasis. <i>Frontiers in Immunology</i> , 2019, 10, 1867.	4.8	29
43	A Naturally Occurring Variant in Human TLR9, P99L, Is Associated with Loss of CpG Oligonucleotide Responsiveness. <i>Journal of Biological Chemistry</i> , 2010, 285, 36486-36494.	3.4	28
44	HLA class I-restricted <i>MYD88</i> L265P-derived peptides as specific targets for lymphoma immunotherapy. <i>Oncoimmunology</i> , 2017, 6, e1219825.	4.6	28
45	Oncogenic MYD88 mutations in lymphoma: novel insights and therapeutic possibilities. <i>Cancer Immunology, Immunotherapy</i> , 2018, 67, 1797-1807.	4.2	26
46	A Point Mutation in the Amino Terminus of TLR7 Abolishes Signaling without Affecting Ligand Binding. <i>Journal of Immunology</i> , 2011, 186, 4213-4222.	0.8	25
47	A frequent hypofunctional IRAK2 variant is associated with reduced spontaneous hepatitis C virus clearance. <i>Hepatology</i> , 2015, 62, 1375-1387.	7.3	25
48	HSP110 sustains chronic NF- κ B signaling in activated B-cell diffuse large B-cell lymphoma through MyD88 stabilization. <i>Blood</i> , 2018, 132, 510-520.	1.4	25
49	Sex-specific effects of TLR9 promoter variants on spontaneous clearance of HCV infection. <i>Gut</i> , 2017, 66, 1829-1837.	12.1	24
50	Targeting the NLRP3 Inflammasome via BTK. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 630479.	3.7	24
51	New variant in the IL1RN-gene (DIRA) associated with late-onset, CRMO-like presentation. <i>Rheumatology</i> , 2020, 59, 3259-3263.	1.9	23
52	Flagellin hypervariable region determines symbiotic properties of commensal <i>Escherichia coli</i> strains. <i>PLoS Biology</i> , 2019, 17, e3000334.	5.6	22
53	IRAK4 turns IL-1 ⁺ phospho-FOXO ⁺ monocytes into pro-inflammatory cells by suppression of protein kinase B. <i>European Journal of Immunology</i> , 2013, 43, 1630-1642.	2.9	20
54	Investigation of single and synergic effects of NLR5 and PD-L1 variants on the risk of colorectal cancer. <i>PLoS ONE</i> , 2018, 13, e0192385.	2.5	20

#	ARTICLE	IF	CITATIONS
55	Comprehensive modeling and functional analysis of Toll-like receptor ligand-recognition domains. <i>Protein Science</i> , 2010, 19, 558-569.	7.6	19
56	Integrin genes and susceptibility to human melanoma. <i>Mutagenesis</i> , 2012, 27, 367-373.	2.6	19
57	A Coding IRAK2 Protein Variant Compromises Toll-like receptor (TLR) Signaling and Is Associated with Colorectal Cancer Survival. <i>Journal of Biological Chemistry</i> , 2014, 289, 23123-23131.	3.4	18
58	The N-terminal loop of IRAK-4 death domain regulates ordered assembly of the Myddosome signalling scaffold. <i>Scientific Reports</i> , 2016, 6, 37267.	3.3	17
59	Pattern recognition receptor mediated downregulation of microRNA-650 fine-tunes MxA expression in dendritic cells infected with influenza A virus. <i>European Journal of Immunology</i> , 2016, 46, 167-177.	2.9	17
60	Cell Death Triggered by <i>Yersinia enterocolitica</i> Identifies Processing of the Proinflammatory Signal Adapter MyD88 as a General Event in the Execution of Apoptosis. <i>Journal of Immunology</i> , 2014, 192, 1209-1219.	0.8	15
61	Crucial Role of Nucleic Acid Sensing via Endosomal Toll-Like Receptors for the Defense of <i>Streptococcus pyogenes</i> in vitro and in vivo. <i>Frontiers in Immunology</i> , 2019, 10, 198.	4.8	14
62	Effective <i>ex vivo</i> inhibition of cryopyrin-associated periodic syndrome (CAPS)-associated mutant NLRP3 inflammasome by MCC950/CRID3. <i>Rheumatology</i> , 2022, 61, e299-e313.	1.9	11
63	Epistatic effect of TLR3 and cGAS-STING-IRAK1-TBK1-IFN signaling variants on colorectal cancer risk. <i>Cancer Medicine</i> , 2020, 9, 1473-1484.	2.8	10
64	Platelets: Underestimated Regulators of Autoinflammation in Psoriasis. <i>Journal of Investigative Dermatology</i> , 2021, 141, 1395-1403.	0.7	10
65	Absence of Non-Canonical, Inhibitory MYD88 Splice Variants in B Cell Lymphomas Correlates With Sustained NF- κ B Signaling. <i>Frontiers in Immunology</i> , 2021, 12, 616451.	4.8	8
66	Conserved mechanisms of signal transduction by Toll and Toll-like receptors. <i>Journal of Endotoxin Research</i> , 2005, 11, 294-298.	2.5	6
67	Short article: Influence of regulatory NLRC5 variants on colorectal cancer survival and 5-fluorouracil-based chemotherapy. <i>European Journal of Gastroenterology and Hepatology</i> , 2018, 30, 838-842.	1.6	6
68	Coding variants in NOD-like receptors: An association study on risk and survival of colorectal cancer. <i>PLoS ONE</i> , 2018, 13, e0199350.	2.5	6
69	Heterozygous Carriage of a Dysfunctional Toll-like Receptor 9 Allele Affects CpG Oligonucleotide Responses in B Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 24544-24553.	3.4	5
70	1-ethyl-3-(6-methylphenanthridine-8-yl) urea modulates TLR3/9 activation and induces selective pro-inflammatory cytokine expression in vitro. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 1530-1537.	2.2	4
71	Putative link between Polo-like kinases (PLKs) and Toll-like receptor (TLR) signaling in transformed and primary human immune cells. <i>Scientific Reports</i> , 2019, 9, 13168.	3.3	3
72	A Genetic Variation of Lipopolysaccharide Binding Protein Affects the Inflammatory Response and Is Associated with Improved Outcome during Sepsis. <i>ImmunoHorizons</i> , 2021, 5, 972-982.	1.8	2

#	ARTICLE	IF	CITATIONS
73	Fish <scp>TLR5</scp> develops a taste for viral <scp>RNA</scp>. EMBO Reports, 2022, 23, .	4.5	2
74	Examining Myddosome Formation by Luminescence-Based Mammalian Interactome Mapping (LUMIER). Methods in Molecular Biology, 2018, 1714, 119-130.	0.9	1
75	Activation of Insect and Vertebrate Toll Signaling: From Endogenous Cytokine Ligand to Direct Recognition of Pathogen Patterns. , 2005, 560, 19-27.		0
76	NLRP3 Phospho-residue Mapping by Phospho Dot Blots. Methods in Molecular Biology, 2022, 2459, 93-103.	0.9	0