

Catherine Werts

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

4,622
citations

32
h-index

67
g-index

82
ext. papers

5,212
ext. citations

8
avg, IF

5.04
L-index

#	Paper	IF	Citations
75	Lymphoid tissue genesis induced by commensals through NOD1 regulates intestinal homeostasis. <i>Nature</i> , 2008 , 456, 507-10	50.4	779
74	Leptospiral lipopolysaccharide activates cells through a TLR2-dependent mechanism. <i>Nature Immunology</i> , 2001 , 2, 346-52	19.1	545
73	Toll-like receptor 2-dependent bacterial sensing does not occur via peptidoglycan recognition. <i>EMBO Reports</i> , 2004 , 5, 1000-6	6.5	390
72	Synergistic stimulation of human monocytes and dendritic cells by Toll-like receptor 4 and NOD1- and NOD2-activating agonists. <i>European Journal of Immunology</i> , 2005 , 35, 2459-70	6.1	276
71	The ubiquitin-editing enzyme A20 restricts nucleotide-binding oligomerization domain containing 2-triggered signals. <i>Immunity</i> , 2008 , 28, 381-90	32.3	262
70	Differential TLR recognition of leptospiral lipid A and lipopolysaccharide in murine and human cells. <i>Journal of Immunology</i> , 2005 , 175, 6022-31	5.3	140
69	Helicobacter pylori heat shock protein 60 mediates interleukin-6 production by macrophages via a toll-like receptor (TLR)-2-, TLR-4-, and myeloid differentiation factor 88-independent mechanism. <i>Journal of Biological Chemistry</i> , 2004 , 279, 245-50	5.4	127
68	TIR, CARD and PYRIN: three domains for an antimicrobial triad. <i>Cell Death and Differentiation</i> , 2006 , 13, 798-815	12.7	114
67	A methylated phosphate group and four amide-linked acyl chains in leptospira interrogans lipid A. The membrane anchor of an unusual lipopolysaccharide that activates TLR2. <i>Journal of Biological Chemistry</i> , 2004 , 279, 25420-9	5.4	110
66	Renal collecting duct epithelial cells react to pyelonephritis-associated Escherichia coli by activating distinct TLR4-dependent and -independent inflammatory pathways. <i>Journal of Immunology</i> , 2006 , 177, 4773-84	5.3	104
65	TLR4- and TLR2-mediated B cell responses control the clearance of the bacterial pathogen, Leptospira interrogans. <i>Journal of Immunology</i> , 2009 , 183, 2669-77	5.3	96
64	Toll-like receptor-mediated tumor necrosis factor and interleukin-10 production differ during systemic inflammation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2003 , 168, 158-64	10.2	91
63	Role of AmiA in the morphological transition of Helicobacter pylori and in immune escape. <i>PLoS Pathogens</i> , 2006 , 2, e97	7.6	89
62	Permissive sites and topology of an outer membrane protein with a reporter epitope. <i>Journal of Bacteriology</i> , 1991 , 173, 262-75	3.5	86
61	Heat shock protein gp96 and NAD(P)H oxidase 4 play key roles in Toll-like receptor 4-activated apoptosis during renal ischemia/reperfusion injury. <i>Cell Death and Differentiation</i> , 2010 , 17, 1474-85	12.7	71
60	Nod1 and Nod2 induce CCL5/RANTES through the NF-kappaB pathway. <i>European Journal of Immunology</i> , 2007 , 37, 2499-508	6.1	68
59	The frameshift mutation in Nod2 results in unresponsiveness not only to Nod2- but also Nod1-activating peptidoglycan agonists. <i>Journal of Biological Chemistry</i> , 2005 , 280, 35859-67	5.4	67

58	Adsorption of bacteriophage lambda on the LamB protein of Escherichia coli K-12: point mutations in gene J of lambda responsible for extended host range. <i>Journal of Bacteriology</i> , 1994 , 176, 941-7	3.5	61
57	Downregulation of the Na/K-ATPase pump by leptospiral glycolipoprotein activates the NLRP3 inflammasome. <i>Journal of Immunology</i> , 2012 , 188, 2805-14	5.3	57
56	TLR9-dependent induction of intestinal alpha-defensins by Toxoplasma gondii. <i>Journal of Immunology</i> , 2010 , 184, 7022-9	5.3	57
55	Live imaging of bioluminescent leptospira interrogans in mice reveals renal colonization as a stealth escape from the blood defenses and antibiotics. <i>PLoS Neglected Tropical Diseases</i> , 2014 , 8, e33594.8	4.8	54
54	Intestinal CD103+ dendritic cells are key players in the innate immune control of Cryptosporidium parvum infection in neonatal mice. <i>PLoS Pathogens</i> , 2013 , 9, e1003801	7.6	54
53	Animal Models of Leptospirosis: Of Mice and Hamsters. <i>Frontiers in Immunology</i> , 2017 , 8, 58	8.4	51
52	Leptospira Interrogans induces fibrosis in the mouse kidney through Inos-dependent, TLR- and NLR-independent signaling pathways. <i>PLoS Neglected Tropical Diseases</i> , 2014 , 8, e2664	4.8	48
51	Nod-like receptors in intestinal homeostasis, inflammation, and cancer. <i>Journal of Leukocyte Biology</i> , 2011 , 90, 471-82	6.5	44
50	Simple method for repurification of endotoxins for biological use. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 1803-8	4.8	41
49	Cyclosporine A impairs nucleotide binding oligomerization domain (Nod1)-mediated innate antibacterial renal defenses in mice and human transplant recipients. <i>PLoS Pathogens</i> , 2013 , 9, e1003152.7.6	7.6	38
48	Role of Nods in bacterial infection. <i>Microbes and Infection</i> , 2007 , 9, 629-36	9.3	38
47	Poly(I:C)-induced protection of neonatal mice against intestinal Cryptosporidium parvum infection requires an additional TLR5 signal provided by the gut flora. <i>Journal of Infectious Diseases</i> , 2014 , 209, 457-67	7	33
46	Innate immune memory through TLR2 and NOD2 contributes to the control of Leptospira interrogans infection. <i>PLoS Pathogens</i> , 2019 , 15, e1007811	7.6	32
45	Calcineurin/NFAT signaling and innate host defence: a role for NOD1-mediated phagocytic functions. <i>Cell Communication and Signaling</i> , 2014 , 12, 8	7.5	32
44	Heat shock protein gp96 interacts with protein phosphatase 5 and controls toll-like receptor 2 (TLR2)-mediated activation of extracellular signal-regulated kinase (ERK) 1/2 in post-hypoxic kidney cells. <i>Journal of Biological Chemistry</i> , 2009 , 284, 12541-9	5.4	32
43	Toxoplasma gondii and subversion of the immune system. <i>Trends in Parasitology</i> , 2006 , 22, 448-52	6.4	32
42	Enzymatic synthesis of lipid A molecules with four amide-linked acyl chains. LpxA acyltransferases selective for an analog of UDP-N-acetylglucosamine in which an amine replaces the 3"-hydroxyl group. <i>Journal of Biological Chemistry</i> , 2004 , 279, 25411-9	5.4	31
41	LIM-only protein FHL2 activates NF- κ B signaling in the control of liver regeneration and hepatocarcinogenesis. <i>Molecular and Cellular Biology</i> , 2013 , 33, 3299-308	4.8	29

40	A genetic system to elicit and monitor antipeptide antibodies without peptide synthesis. <i>Nature Biotechnology</i> , 1991 , 9, 170-2	44.5	27
39	LipL21 lipoprotein binding to peptidoglycan enables <i>Leptospira interrogans</i> to escape NOD1 and NOD2 recognition. <i>PLoS Pathogens</i> , 2017 , 13, e1006725	7.6	26
38	CCL20 Displays Antimicrobial Activity Against <i>Cryptosporidium parvum</i> , but Its Expression Is Reduced During Infection in the Intestine of Neonatal Mice. <i>Journal of Infectious Diseases</i> , 2015 , 212, 1332-40	7	25
37	A role for residue 151 of LamB in bacteriophage lambda adsorption: possible steric effect of amino acid substitutions. <i>Journal of Bacteriology</i> , 1994 , 176, 3204-9	3.5	23
36	Flagellin/TLR5 signalling activates renal collecting duct cells and facilitates invasion and cellular translocation of uropathogenic <i>Escherichia coli</i> . <i>Cellular Microbiology</i> , 2014 , 16, 1503-17	3.9	21
35	DNA sequence analysis of the lamB gene from <i>Klebsiella pneumoniae</i> : implications for the topology and the pore functions in maltoporin. <i>Molecular Genetics and Genomics</i> , 1992 , 233, 372-8		21
34	Common Cell Shape Evolution of Two Nasopharyngeal Pathogens. <i>PLoS Genetics</i> , 2015 , 11, e1005338	6	21
33	Penicillin resistance compromises Nod1-dependent proinflammatory activity and virulence fitness of <i>Neisseria meningitidis</i> . <i>Cell Host and Microbe</i> , 2013 , 13, 735-45	23.4	20
32	Inhibition by eicosapentaenoic acid of IL-1 β -induced PGHS-2 expression in human microvascular endothelial cells: involvement of lipoxygenase-derived metabolites and p38 MAPK pathway. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2003 , 1631, 77-84	5	20
31	CCL17 production by dendritic cells is required for NOD1-mediated exacerbation of allergic asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014 , 189, 899-908	10.2	19
30	TNF- α , inefficient by itself, potentiates IL-1 β -induced PGHS-2 expression in human pulmonary microvascular endothelial cells: requirement of NF- κ B and p38 MAPK pathways. <i>British Journal of Pharmacology</i> , 2002 , 136, 1005-14	8.6	19
29	Pre-treatment with <i>Lactobacillus plantarum</i> prevents severe pathogenesis in mice infected with <i>Leptospira interrogans</i> and may be associated with recruitment of myeloid cells. <i>PLoS Neglected Tropical Diseases</i> , 2017 , 11, e0005870	4.8	19
28	Leptospirosis: a Toll road from B lymphocytes. <i>Chang Gung Medical Journal</i> , 2010 , 33, 591-601		18
27	The effect of bulgecin A on peptidoglycan metabolism and physiology of <i>Helicobacter pylori</i> . <i>Microbial Drug Resistance</i> , 2012 , 18, 230-9	2.9	17
26	Mycobacterial Phenolic Glycolipids Selectively Disable TRIF-Dependent TLR4 Signaling in Macrophages. <i>Frontiers in Immunology</i> , 2018 , 9, 2	8.4	16
25	The route of infection with <i>Leptospira interrogans</i> serovar Copenhageni affects the kinetics of bacterial dissemination and kidney colonization. <i>PLoS Neglected Tropical Diseases</i> , 2020 , 14, e0007950	4.8	14
24	Interaction of <i>Leptospira</i> with the Innate Immune System. <i>Current Topics in Microbiology and Immunology</i> , 2018 , 415, 163-187	3.3	13
23	LIM-Only Protein FHL2 Is a Negative Regulator of Transforming Growth Factor β Expression. <i>Molecular and Cellular Biology</i> , 2017 , 37,	4.8	12

22	Recent findings related to immune responses against leptospirosis and novel strategies to prevent infection. <i>Microbes and Infection</i> , 2018 , 20, 578-588	9.3	12
21	Leptospiral LPS escapes mouse TLR4 internalization and TRIF-associated antimicrobial responses through O antigen and associated lipoproteins. <i>PLoS Pathogens</i> , 2020 , 16, e1008639	7.6	12
20	Phagocyte Escape of : The Role of TLRs and NLRs. <i>Frontiers in Immunology</i> , 2020 , 11, 571816	8.4	12
19	Immunological relatedness of the LamB proteins among members of Enterobacteriaceae. <i>Journal of General Microbiology</i> , 1993 , 139, 881-7		11
18	Escape of TLR5 Recognition by spp.: A Rationale for Atypical Endoflagella. <i>Frontiers in Immunology</i> , 2020 , 11, 2007	8.4	10
17	Peptidoglycan and Nod Receptor 2015 , 737-747		5
16	Anti-Leptospira immunoglobulin profiling in mice reveals strain specific IgG and persistent IgM responses associated with virulence and renal colonization. <i>PLoS Neglected Tropical Diseases</i> , 2021 , 15, e0008970	4.8	5
15	First evidence for a restriction-modification system in Leptospira sp. <i>FEMS Microbiology Letters</i> , 2001 , 201, 139-43	2.9	4
14	Peptidoglycan and Nod Receptor 2014 , 1-10		3
13	Leptospiral LPS escapes mouse TLR4 internalization and TRIF-associated antimicrobial responses through O antigen and associated lipoproteins		3
12	Role of TLR4 in Persistent Infection: A Comparative Study in Mice. <i>Frontiers in Immunology</i> , 2020 , 11, 572999	8.4	3
11	In Vivo Imaging of Bioluminescent Leptospire. <i>Methods in Molecular Biology</i> , 2020 , 2134, 149-160	1.4	3
10	Construction and first characterization of two reciprocal hybrids between LamB from Escherichia coli K12 and Klebsiella pneumoniae. <i>Research in Microbiology</i> , 1993 , 144, 259-69	4	2
9	Purification of LPS from Leptospira. <i>Methods in Molecular Biology</i> , 2020 , 2134, 53-65	1.4	2
8	Role of TLR4 in persistent Leptospira interrogans infection: a comparative in vivo study in mice		1
7	The Maltose B Region in Salmonella Typhimurium, Escherichia Coli and Other Enterobacteriaceae 1993 , 91-104		0
6	Murine Models for Leptospirosis Kidney Disease. <i>Translational Research in Biomedicine</i> , 2019 , 65-75	0.1	0
5	Transient Presence of Live Leptospira interrogans in Murine Testes.. <i>Microbiology Spectrum</i> , 2022 , e0277531	0.1	0

- 4 Leptospiral LPS escapes mouse TLR4 internalization and TRIF-associated antimicrobial responses through O antigen and associated lipoproteins **2020**, 16, e1008639
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- 1 Leptospiral LPS escapes mouse TLR4 internalization and TRIF-associated antimicrobial responses through O antigen and associated lipoproteins **2020**, 16, e1008639