

Dana J Philpott

List of Publications by Year in descending order

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Version: 2024-02-01

132
papers

19,849
citations

14614

66
h-index

15683

125
g-index

134
all docs

134
docs citations

134
times ranked

20900
citing authors

#	ARTICLE	IF	CITATIONS
1	How autophagy controls the intestinal epithelial barrier. <i>Autophagy</i> , 2022, 18, 86-103.	4.3	125
2	Defects in NLRP6, autophagy and goblet cell homeostasis are associated with reduced duodenal CRH receptor 2 expression in patients with functional dyspepsia. <i>Brain, Behavior, and Immunity</i> , 2022, 101, 335-345.	2.0	12
3	Tryptophan-derived microbial metabolites activate the aryl hydrocarbon receptor in tumor-associated macrophages to suppress anti-tumor immunity. <i>Immunity</i> , 2022, 55, 324-340.e8.	6.6	179
4	The eIF2 \pm kinase HRI in innate immunity, proteostasis, and mitochondrial stress. <i>FEBS Journal</i> , 2021, 288, 3094-3107.	2.2	30
5	The impact of dextran sodium sulphate and probiotic pre-treatment in a murine model of Parkinson's disease. <i>Journal of Neuroinflammation</i> , 2021, 18, 20.	3.1	21
6	Nod1 promotes colorectal carcinogenesis by regulating the immunosuppressive functions of tumor-infiltrating myeloid cells. <i>Cell Reports</i> , 2021, 34, 108677.	2.9	44
7	Defined gut microbial communities: promising tools to understand and combat disease. <i>Microbes and Infection</i> , 2021, 23, 104816.	1.0	6
8	Defined mouse microbiota: An "evolving" tool. <i>Cell Host and Microbe</i> , 2021, 29, 545-547.	5.1	0
9	The intestinal microbiota: from health to disease, and back. <i>Microbes and Infection</i> , 2021, 23, 104849.	1.0	14
10	Mice, Models, Microbiota: How Can We More Accurately Reflect Human Disease?. <i>University of Toronto Journal of Undergraduate Life Sciences</i> , 2021, 15, 8.	0.2	0
11	gp130 blockade to NOD off Crohn's disease. <i>Trends in Immunology</i> , 2021, 42, 551-553.	2.9	2
12	Vitamin D deficiency enhances expression of autophagy-regulating miR-142-3p in mouse and "involved" IBD patient intestinal tissues. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 321, G171-G184.	1.6	9
13	The eIF2 \pm kinase HRI triggers the autophagic clearance of cytosolic protein aggregates. <i>Journal of Biological Chemistry</i> , 2021, 296, 100050.	1.6	21
14	Diurnal changes in the murine small intestine are disrupted by obesogenic Western Diet feeding and microbial dysbiosis. <i>Scientific Reports</i> , 2021, 11, 20571.	1.6	6
15	Disruption of autophagy by increased 5-HT alters gut microbiota and enhances susceptibility to experimental colitis and Crohn's disease. <i>Science Advances</i> , 2021, 7, eabi6442.	4.7	25
16	E.coli Nissle increases transcription of flagella assembly and formate hydrogenlyase genes in response to colitis. <i>Gut Microbes</i> , 2021, 13, 1994832.	4.3	2
17	Gut symbionts dial up RA to prime host defense. <i>Cell Host and Microbe</i> , 2021, 29, 1727-1729.	5.1	1
18	The dialogue between unconventional T cells and the microbiota. <i>Mucosal Immunology</i> , 2020, 13, 867-876.	2.7	16

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19	Circadian GLP-1 Secretion in Mice Is Dependent on the Intestinal Microbiome for Maintenance of Diurnal Metabolic Homeostasis. <i>Diabetes</i> , 2020, 69, 2589-2602.	0.3	33
20	An optimized procedure for quantitative analysis of mitophagy with the mtKeima system using flow cytometry. <i>BioTechniques</i> , 2020, 69, 249-256.	0.8	4
21	SLIT2/ROBO1-signaling inhibits macropinocytosis by opposing cortical cytoskeletal remodeling. <i>Nature Communications</i> , 2020, 11, 4112.	5.8	26
22	Innate Immune Molecule NLR5 Protects Mice From Helicobacter-induced Formation of Gastric Lymphoid Tissue. <i>Gastroenterology</i> , 2020, 159, 169-182.e8.	0.6	18
23	NOD2 modulates immune tolerance via the GM-CSF-dependent generation of CD103 ⁺ dendritic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10946-10957.	3.3	15
24	Mitophagy pathways in health and disease. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	121
25	Canonical and noncanonical inflammasomes in intestinal epithelial cells. <i>Cellular Microbiology</i> , 2019, 21, e13079.	1.1	39
26	The heme-regulated inhibitor is a cytosolic sensor of protein misfolding that controls innate immune signaling. <i>Science</i> , 2019, 365, .	6.0	81
27	Nod-like receptors are critical for gut-brain axis signalling in mice. <i>Journal of Physiology</i> , 2019, 597, 5777-5797.	1.3	48
28	<i>Lrrk2</i> alleles modulate inflammation during microbial infection of mice in a sex-dependent manner. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	67
29	Primed PMNs in healthy mouse and human circulation are first responders during acute inflammation. <i>Blood Advances</i> , 2019, 3, 1622-1637.	2.5	38
30	VacA generates a protective intracellular reservoir for Helicobacter pylori that is eliminated by activation of the lysosomal calcium channel TRPML1. <i>Nature Microbiology</i> , 2019, 4, 1411-1423.	5.9	68
31	Comparison of Co-housing and Littermate Methods for Microbiota Standardization in Mouse Models. <i>Cell Reports</i> , 2019, 27, 1910-1919.e2.	2.9	134
32	Isoginkgetin, a Natural Biflavonoid Proteasome Inhibitor, Sensitizes Cancer Cells to Apoptosis via Disruption of Lysosomal Homeostasis and Impaired Protein Clearance. <i>Molecular and Cellular Biology</i> , 2019, 39, .	1.1	29
33	NLR5 deficiency has a moderate impact on immunodominant CD8 ⁺ T cell responses during rotavirus infection of adult mice. <i>Immunology and Cell Biology</i> , 2019, 97, 552-562.	1.0	10
34	The mitochondrial Nod-like receptor NLRX1 modifies apoptosis through SARM1. <i>Molecular and Cellular Biochemistry</i> , 2019, 453, 187-196.	1.4	33
35	NOD1 and NOD2 in inflammation, immunity and disease. <i>Archives of Biochemistry and Biophysics</i> , 2019, 670, 69-81.	1.4	140
36	NOD1 and NOD2 and the Immune Response to Bacteria. , 2019, , 251-280.		0

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37	The Impact of the Gut Microbiome on Colorectal Cancer. <i>Annual Review of Cancer Biology</i> , 2018, 2, 229-249.	2.3	21
38	Shiga Toxin/Lipopolysaccharide Activates Caspase-4 and Gasdermin D to Trigger Mitochondrial Reactive Oxygen Species Upstream of the NLRP3 Inflammasome. <i>Cell Reports</i> , 2018, 25, 1525-1536.e7.	2.9	117
39	Innate Immune Influences on the Gut Microbiome: Lessons from Mouse Models. <i>Trends in Immunology</i> , 2018, 39, 992-1004.	2.9	25
40	The interplay between microbes and the immune response in inflammatory bowel disease. <i>Journal of Physiology</i> , 2018, 596, 3869-3882.	1.3	49
41	Complement C3 Drives Autophagy-Dependent Restriction of Cyto-invasive Bacteria. <i>Cell Host and Microbe</i> , 2018, 23, 644-652.e5.	5.1	86
42	Circulating NOD1 Activators and Hematopoietic NOD1 Contribute to Metabolic Inflammation and Insulin Resistance. <i>Cell Reports</i> , 2017, 18, 2415-2426.	2.9	70
43	Irreversible splenic atrophy following chronic LCMV infection is associated with compromised immunity in mice. <i>European Journal of Immunology</i> , 2017, 47, 94-106.	1.6	11
44	The NLR Protein NLRP6 Does Not Impact Gut Microbiota Composition. <i>Cell Reports</i> , 2017, 21, 3653-3661.	2.9	79
45	The transcriptional and splicing landscape of intestinal organoids undergoing nutrient starvation or endoplasmic reticulum stress. <i>BMC Genomics</i> , 2016, 17, 680.	1.2	21
46	The Cytosolic Microbial Receptor Nod2 Regulates Small Intestinal Crypt Damage and Epithelial Regeneration following T Cell-Induced Enteropathy. <i>Journal of Immunology</i> , 2016, 197, 345-355.	0.4	20
47	Resilience of the intestinal microbiota following pathogenic bacterial infection is independent of innate immunity mediated by NOD1 or NOD2. <i>Microbes and Infection</i> , 2016, 18, 460-471.	1.0	22
48	NLRX1 Acts as an Epithelial-Intrinsic Tumor Suppressor through the Modulation of TNF-Mediated Proliferation. <i>Cell Reports</i> , 2016, 14, 2576-2586.	2.9	51
49	Nod2-mediated recognition of the microbiota is critical for mucosal adjuvant activity of cholera toxin. <i>Nature Medicine</i> , 2016, 22, 524-530.	15.2	94
50	Inositol-Triphosphate 3-Kinase C Mediates Inflammasome Activation and Treatment Response in Kawasaki Disease. <i>Journal of Immunology</i> , 2016, 197, 3481-3489.	0.4	99
51	The common mouse protozoa <i>Tritrichomonas muris</i> alters mucosal T cell homeostasis and colitis susceptibility. <i>Journal of Experimental Medicine</i> , 2016, 213, 2841-2850.	4.2	71
52	NKT Cell-Deficient Mice Harbor an Altered Microbiota That Fuels Intestinal Inflammation during Chemically Induced Colitis. <i>Journal of Immunology</i> , 2016, 197, 4464-4472.	0.4	92
53	New Role of Nod Proteins in Regulation of Intestinal Goblet Cell Response in the Context of Innate Host Defense in an Enteric Parasite Infection. <i>Infection and Immunity</i> , 2016, 84, 275-285.	1.0	25
54	Hematopoietic LTÎ²R deficiency results in skewed T cell cytokine profiles during a mucosal viral infection. <i>Journal of Leukocyte Biology</i> , 2016, 100, 103-110.	1.5	11

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55	Intracellular Bacterial Pathogens Trigger the Formation of U Small Nuclear RNA Bodies (U Bodies) through Metabolic Stress Induction. <i>Journal of Biological Chemistry</i> , 2015, 290, 20904-20918.	1.6	32
56	Editorial overview: Host-microbe interactions: bacteria. <i>Current Opinion in Microbiology</i> , 2015, 23, v-viii.	2.3	0
57	NOD-Like Receptors: Versatile Cytosolic Sentinels. <i>Physiological Reviews</i> , 2015, 95, 149-178.	13.1	270
58	Paneth cell marker CD24 in NOD2 knockout organoids and in inflammatory bowel disease (IBD). <i>Gut</i> , 2015, 64, 353-354.	6.1	17
59	NOD-Like Receptors: Guardians of Intestinal Mucosal Barriers. <i>Physiology</i> , 2015, 30, 241-250.	1.6	45
60	Regulation of Obesity-Related Insulin Resistance with Gut Anti-inflammatory Agents. <i>Cell Metabolism</i> , 2015, 21, 527-542.	7.2	283
61	LRRK2 and Nod2 promote lysozyme sorting in Paneth cells. <i>Nature Immunology</i> , 2015, 16, 898-900.	7.0	26
62	Impaired Resolution of Inflammation in the Endoglin Heterozygous Mouse Model of Chronic Colitis. <i>Mediators of Inflammation</i> , 2014, 2014, 1-13.	1.4	28
63	The Multifaceted Role of the Intestinal Microbiota in Colon Cancer. <i>Molecular Cell</i> , 2014, 54, 309-320.	4.5	284
64	The Immune Receptor NOD1 and Kinase RIP2 Interact with Bacterial Peptidoglycan on Early Endosomes to Promote Autophagy and Inflammatory Signaling. <i>Cell Host and Microbe</i> , 2014, 15, 623-635.	5.1	249
65	NOD proteins: regulators of inflammation in health and disease. <i>Nature Reviews Immunology</i> , 2014, 14, 9-23.	10.6	525
66	Unleashing the potential of NOD- and Toll-like agonists as vaccine adjuvants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12294-12299.	3.3	253
67	Gut Microbial Metabolism Drives Transformation of Msh2-Deficient Colon Epithelial Cells. <i>Cell</i> , 2014, 158, 288-299.	13.5	375
68	Salmonella enterica serovar Typhimurium Δ msbB Triggers Exacerbated Inflammation in Nod2 Deficient Mice. <i>PLoS ONE</i> , 2014, 9, e113645.	1.1	12
69	Nutrient sensing and metabolic stress pathways in innate immunity. <i>Cellular Microbiology</i> , 2013, 15, n/a-n/a.	1.1	47
70	An epithelial armamentarium to sense the microbiota. <i>Seminars in Immunology</i> , 2013, 25, 323-333.	2.7	13
71	Identification of a synthetic muramyl peptide derivative with enhanced Nod2 stimulatory capacity. <i>Innate Immunity</i> , 2013, 19, 493-503.	1.1	34
72	The Protein ATG16L1 Suppresses Inflammatory Cytokines Induced by the Intracellular Sensors Nod1 and Nod2 in an Autophagy-Independent Manner. <i>Immunity</i> , 2013, 39, 858-873.	6.6	162

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73	NLRX1 does not inhibit MAVS-dependent antiviral signalling. <i>Innate Immunity</i> , 2013, 19, 438-448.	1.1	73
74	<i>Listeria</i> phospholipases subvert host autophagic defenses by stalling pre-autophagosomal structures. <i>EMBO Journal</i> , 2013, 32, 3066-3078.	3.5	123
75	Nod1 and Nod2 signaling does not alter the composition of intestinal bacterial communities at homeostasis. <i>Gut Microbes</i> , 2013, 4, 222-231.	4.3	125
76	Nod2 Activates NF- κ B in CD4+ T Cells but Its Expression Is Dispensable for T Cell-Induced Colitis. <i>PLoS ONE</i> , 2013, 8, e82623.	1.1	26
77	T Cell Intrinsic NOD2 Is Dispensable for CD8 T Cell Immunity. <i>PLoS ONE</i> , 2013, 8, e56014.	1.1	11
78	Nod1 and Nod2 and the Immune Response to Bacteria. , 2013, , 191-217.		0
79	Amino Acid Starvation Induced by Invasive Bacterial Pathogens Triggers an Innate Host Defense Program. <i>Cell Host and Microbe</i> , 2012, 11, 563-575.	5.1	331
80	Nod-like receptors in the control of intestinal inflammation. <i>Current Opinion in Immunology</i> , 2012, 24, 398-404.	2.4	79
81	Modulating immunity as a therapy for bacterial infections. <i>Nature Reviews Microbiology</i> , 2012, 10, 243-254.	13.6	439
82	Commensal and Probiotic Bacteria Influence Intestinal Barrier Function and Susceptibility to Colitis in Nod1 ^{-/-} ;Nod2 ^{-/-} Mice. <i>Inflammatory Bowel Diseases</i> , 2012, 18, 1434-1446.	0.9	114
83	Bacterial infection causes stress-induced memory dysfunction in mice. <i>Gut</i> , 2011, 60, 307-317.	6.1	723
84	Genetic Profiling in Inflammatory Bowel Disease: From Association to Bedside. <i>Gastroenterology</i> , 2011, 141, 1566-1571.e1.	0.6	14
85	Identification of an innate T helper type 17 response to intestinal bacterial pathogens. <i>Nature Medicine</i> , 2011, 17, 837-844.	15.2	216
86	Thymic Stromal Lymphopoietin-Induced Expression of the Endogenous Inhibitory Enzyme SLPI Mediates Recovery from Colonic Inflammation. <i>Immunity</i> , 2011, 35, 223-235.	6.6	97
87	Peptidoglycan: a critical activator of the mammalian immune system during infection and homeostasis. <i>Immunological Reviews</i> , 2011, 243, 40-60.	2.8	109
88	Essential role of Rip2 in the modulation of innate and adaptive immunity triggered by Nod1 and Nod2 ligands. <i>European Journal of Immunology</i> , 2011, 41, 1445-1455.	1.6	100
89	What is new with Nods?. <i>Current Opinion in Immunology</i> , 2011, 23, 29-34.	2.4	76
90	Enterohaemorrhagic, but not enteropathogenic, <i>Escherichia coli</i> infection of epithelial cells disrupts signalling responses to tumour necrosis factor-alpha. <i>Microbiology (United Kingdom)</i> , 2011, 157, 2963-2973.	0.7	7

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91	Nucleotide oligomerization domain-containing proteins instruct T cell helper type 2 immunity through stromal activation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14896-14901.	3.3	78
92	Nod-like receptors in intestinal homeostasis, inflammation, and cancer. Journal of Leukocyte Biology, 2011, 90, 471-482.	1.5	49
93	Nod-like receptors: sentinels at host membranes. Current Opinion in Immunology, 2010, 22, 428-434.	2.4	75
94	Nod1 and Nod2 direct autophagy by recruiting ATG16L1 to the plasma membrane at the site of bacterial entry. Nature Immunology, 2010, 11, 55-62.	7.0	1,125
95	Bacterial membrane vesicles deliver peptidoglycan to NOD1 in epithelial cells. Cellular Microbiology, 2010, 12, 372-385.	1.1	382
96	The innate immune molecule, NOD1, regulates direct killing of <i>Helicobacter pylori</i> by antimicrobial peptides. Cellular Microbiology, 2010, 12, 626-639.	1.1	103
97	NLRC5 Limits the Activation of Inflammatory Pathways. Journal of Immunology, 2010, 185, 1681-1691.	0.4	209
98	Nod proteins link bacterial sensing and autophagy. Autophagy, 2010, 6, 409-411.	4.3	53
99	'Nodophagy'. Gut Microbes, 2010, 1, 307-315.	4.3	16
100	Innate signals from Nod2 block respiratory tolerance and program TH2-driven allergic inflammation. Journal of Allergy and Clinical Immunology, 2010, 126, 1284-1293.e10.	1.5	75
101	Neutrophil Migration During Liver Injury Is Under Nucleotide-Binding Oligomerization Domain 1 Control. Gastroenterology, 2010, 138, 1546-1556.e5.	0.6	32
102	Nod1 and Nod2 Regulation of Inflammation in the <i>Salmonella</i> Colitis Model. Infection and Immunity, 2010, 78, 5107-5115.	1.0	109
103	Role of Nod1 in Mucosal Dendritic Cells during Salmonella Pathogenicity Island 1-Independent Salmonella enterica Serovar Typhimurium Infection. Infection and Immunity, 2009, 77, 4480-4486.	1.0	46
104	An N-terminal addressing sequence targets NLRX1 to the mitochondrial matrix. Journal of Cell Science, 2009, 122, 3161-3168.	1.2	167
105	pH-dependent Internalization of Muramyl Peptides from Early Endosomes Enables Nod1 and Nod2 Signaling. Journal of Biological Chemistry, 2009, 284, 23818-23829.	1.6	192
106	Crohn's disease-associated Nod2 mutants reduce IL10 transcription. Nature Immunology, 2009, 10, 455-457.	7.0	31
107	Innate immunity: The connection with inflammation and disease. Seminars in Immunology, 2009, 21, 173-174.	2.7	0
108	NLRs: Nucleotide-Binding Domain and Leucine-Rich-Repeat-Containing Proteins. EcoSal Plus, 2009, 3, .	2.1	3

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109	NLRX1 is a mitochondrial NOD-like receptor that amplifies NF- κ B and JNK pathways by inducing reactive oxygen species production. <i>EMBO Reports</i> , 2008, 9, 293-300.	2.0	282
110	The microbial and danger signals that activate Nod-like receptors. <i>Cytokine</i> , 2008, 43, 368-373.	1.4	128
111	NF- κ B Activation during Acute <i>Helicobacter pylori</i> Infection in Mice. <i>Infection and Immunity</i> , 2008, 76, 551-561.	1.0	43
112	Nod2-Dependent Th2 Polarization of Antigen-Specific Immunity. <i>Journal of Immunology</i> , 2008, 181, 7925-7935.	0.4	166
113	Nod1-Mediated Innate Immune Recognition of Peptidoglycan Contributes to the Onset of Adaptive Immunity. <i>Immunity</i> , 2007, 26, 445-459.	6.6	281
114	A critical role for peptidoglycan N-deacetylation in <i>Listeria</i> evasion from the host innate immune system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 997-1002.	3.3	329
115	Nod1 and Nod2 induce CCL5/RANTES through the NF- κ B pathway. <i>European Journal of Immunology</i> , 2007, 37, 2499-2508.	1.6	75
116	The pattern-recognition molecule Nod1 is localized at the plasma membrane at sites of bacterial interaction. <i>Cellular Microbiology</i> , 2007, 10, 071028185302001-???	1.1	128
117	Influence of polymorphisms in the NOD1/CARD4 and NOD2/CARD15 genes on the clinical outcome of <i>Helicobacter pylori</i> infection. <i>Cellular Microbiology</i> , 2006, 8, 1188-1198.	1.1	108
118	Nod-like proteins in immunity, inflammation and disease. <i>Nature Immunology</i> , 2006, 7, 1250-1257.	7.0	794
119	Innate Immune Sensing of Microbes by Nod Proteins. <i>Annals of the New York Academy of Sciences</i> , 2006, 1072, 19-27.	1.8	104
120	Murine Nod1 but not its human orthologue mediates innate immune detection of tracheal cytotoxin. <i>EMBO Reports</i> , 2005, 6, 1201-1207.	2.0	147
121	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, 35859-35867.	1.6	73
122	Identification of the Critical Residues Involved in Peptidoglycan Detection by Nod1. <i>Journal of Biological Chemistry</i> , 2005, 280, 38648-38656.	1.6	106
123	Nod1 responds to peptidoglycan delivered by the <i>Helicobacter pylori</i> cag pathogenicity island. <i>Nature Immunology</i> , 2004, 5, 1166-1174.	7.0	1,091
124	Mini-review: The role of peptidoglycan recognition in innate immunity. <i>European Journal of Immunology</i> , 2004, 34, 1777-1782.	1.6	119
125	The role of Toll-like receptors and Nod proteins in bacterial infection. <i>Molecular Immunology</i> , 2004, 41, 1099-1108.	1.0	236
126	Nods, Nalps and Naip: intracellular regulators of bacterial-induced inflammation. <i>Cellular Microbiology</i> , 2003, 5, 581-592.	1.1	309

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127	Nod1 Detects a Unique Muropeptide from Gram-Negative Bacterial Peptidoglycan. <i>Science</i> , 2003, 300, 1584-1587.	6.0	1,388
128	Peptidoglycan Molecular Requirements Allowing Detection by Nod1 and Nod2. <i>Journal of Biological Chemistry</i> , 2003, 278, 41702-41708.	1.6	578
129	Nod2 Is a General Sensor of Peptidoglycan through Muramyl Dipeptide (MDP) Detection. <i>Journal of Biological Chemistry</i> , 2003, 278, 8869-8872.	1.6	2,026
130	Intracellular vs extracellular recognition of pathogens – common concepts in mammals and flies. <i>Trends in Microbiology</i> , 2002, 10, 193-199.	3.5	203
131	Reduced activation of inflammatory responses in host cells by mouse-adapted <i>Helicobacter pylori</i> isolates. <i>Cellular Microbiology</i> , 2002, 4, 285-296.	1.1	119
132	CARD4/Nod1 mediates NF- κ B and JNK activation by invasive <i>Shigella flexneri</i> . <i>EMBO Reports</i> , 2001, 2, 736-742.	2.0	569