

# Karen M Ottemann

## 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.

65  
papers

3,185  
citations

32  
h-index

56  
g-index

75  
ext. papers

3,823  
ext. citations

6.4  
avg, IF

5.35  
L-index

#	Paper	IF	Citations
65	A piston model for transmembrane signaling of the aspartate receptor. <i>Science</i> , <b>1999</b> , 285, 1751-4	33.3	241
64	Roles for motility in bacterial-host interactions. <i>Molecular Microbiology</i> , <b>1997</b> , 24, 1109-17	4.1	240
63	<i>Helicobacter pylori</i> uses motility for initial colonization and to attain robust infection. <i>Infection and Immunity</i> , <b>2002</b> , 70, 1984-90	3.7	223
62	Motility and chemotaxis in <i>Campylobacter</i> and <i>Helicobacter</i> . <i>Annual Review of Microbiology</i> , <b>2011</b> , 65, 389-410	17.5	207
61	The complete genome sequence of <i>Helicobacter pylori</i> strain G27. <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 447-8	3.5	155
60	Chemotaxis plays multiple roles during <i>Helicobacter pylori</i> animal infection. <i>Infection and Immunity</i> , <b>2005</b> , 73, 803-11	3.7	124
59	CD44 plays a functional role in <i>Helicobacter pylori</i> -induced epithelial cell proliferation. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1004663	7.6	114
58	Colonization and inflammation deficiencies in Mongolian gerbils infected by <i>Helicobacter pylori</i> chemotaxis mutants. <i>Infection and Immunity</i> , <b>2005</b> , 73, 1820-7	3.7	93
57	<i>Helicobacter pylori</i> chemotaxis modulates inflammation and bacterium-gastric epithelium interactions in infected mice. <i>Infection and Immunity</i> , <b>2007</b> , 75, 3747-57	3.7	86
56	The use of murine-derived fundic organoids in studies of gastric physiology. <i>Journal of Physiology</i> , <b>2015</b> , 593, 1809-27	3.9	85
55	<i>Helicobacter pylori</i> perceives the quorum-sensing molecule AI-2 as a chemorepellent via the chemoreceptor TlpB. <i>Microbiology (United Kingdom)</i> , <b>2011</b> , 157, 2445-2455	2.9	84
54	ChePep controls <i>Helicobacter pylori</i> Infection of the gastric glands and chemotaxis in the <i>Epsilon</i> proteobacteria. <i>MBio</i> , <b>2011</b> , 2,	7.8	80
53	Recombination-Based In Vivo Expression Technology Identifies <i>Helicobacter pylori</i> Genes Important for Host Colonization. <i>Infection and Immunity</i> , <b>2010</b> , 78, 4967-4967	3.7	78
52	<i>Helicobacter pylori</i> Biofilm Formation and Its Potential Role in Pathogenesis. <i>Microbiology and Molecular Biology Reviews</i> , <b>2018</b> , 82,	13.2	65
51	The degree of <i>Helicobacter pylori</i> -triggered inflammation is manipulated by preinfection host microbiota. <i>Infection and Immunity</i> , <b>2013</b> , 81, 1382-9	3.7	61
50	Two predicted chemoreceptors of <i>Helicobacter pylori</i> promote stomach infection. <i>Infection and Immunity</i> , <b>2002</b> , 70, 5877-81	3.7	53
49	Colonization, localization, and inflammation: the roles of <i>H. pylori</i> chemotaxis in vivo. <i>Current Opinion in Microbiology</i> , <b>2018</b> , 41, 51-57	7.9	53

48	Eosinophils suppress Th1 responses and restrict bacterially induced gastrointestinal inflammation. <i>Journal of Experimental Medicine</i> , <b>2018</b> , 215, 2055-2072	16.6	53
47	Motility and chemotaxis mediate the preferential colonization of gastric injury sites by <i>Helicobacter pylori</i> . <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1004275	7.6	52
46	CheV: CheW-like coupling proteins at the core of the chemotaxis signaling network. <i>Trends in Microbiology</i> , <b>2010</b> , 18, 494-503	12.4	50
45	Functional analysis of the <i>Helicobacter pylori</i> flagellar switch proteins. <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 7147-56	3.5	50
44	Fallacy of the Unique Genome: Sequence Diversity within Single Strains. <i>MBio</i> , <b>2017</b> , 8,	7.8	49
43	<i>Helicobacter pylori</i> -induced Sonic Hedgehog expression is regulated by NFB pathway activation: the use of a novel in vitro model to study epithelial response to infection. <i>Helicobacter</i> , <b>2015</b> , 20, 19-28	4.9	49
42	How <i>Helicobacter pylori</i> senses, targets and interacts with the gastric epithelium. <i>Environmental Microbiology</i> , <b>2016</b> , 18, 791-806	5.2	48
41	<i>Helicobacter pylori</i> requires TlpD-driven chemotaxis to proliferate in the antrum. <i>Infection and Immunity</i> , <b>2012</b> , 80, 3713-20	3.7	44
40	The ToxR protein of <i>Vibrio cholerae</i> forms homodimers and heterodimers. <i>Journal of Bacteriology</i> , <b>1996</b> , 178, 156-62	3.5	42
39	<i>Vibrio cholerae</i> Response Regulator VxrB Controls Colonization and Regulates the Type VI Secretion System. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1004933	7.6	40
38	Direct measurement of small ligand-induced conformational changes in the aspartate chemoreceptor using EPR. <i>Biochemistry</i> , <b>1998</b> , 37, 7062-9	3.2	40
37	Analysis of <i>Vibrio cholerae</i> ToxR function by construction of novel fusion proteins. <i>Molecular Microbiology</i> , <b>1995</b> , 15, 719-31	4.1	37
36	A supplemented soft agar chemotaxis assay demonstrates the <i>Helicobacter pylori</i> chemotactic response to zinc and nickel. <i>Microbiology (United Kingdom)</i> , <b>2013</b> , 159, 46-57	2.9	35
35	Structural basis of FlIG-FlIM interaction in <i>Helicobacter pylori</i> . <i>Molecular Microbiology</i> , <b>2013</b> , 88, 798-812	4.1	32
34	<i>Helicobacter pylori</i> Biofilm Involves a Multigene Stress-Biased Response, Including a Structural Role for Flagella. <i>MBio</i> , <b>2018</b> , 9,	7.8	32
33	Bacterial chemotaxis modulates host cell apoptosis to establish a T-helper cell, type 17 (Th17)-dominant immune response in <i>Helicobacter pylori</i> infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 19749-54	11.5	31
32	NLRP3 Controls the Development of Gastrointestinal CD11b Dendritic Cells in the Steady State and during Chronic Bacterial Infection. <i>Cell Reports</i> , <b>2017</b> , 21, 3860-3872	10.6	30
31	Identification of a chemoreceptor zinc-binding domain common to cytoplasmic bacterial chemoreceptors. <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 4338-45	3.5	30

30	The Helicobacter pylori CZB Cytoplasmic Chemoreceptor TlpD Forms an Autonomous Polar Chemotaxis Signaling Complex That Mediates a Tactic Response to Oxidative Stress. <i>Journal of Bacteriology</i> , <b>2016</b> , 198, 1563-75	3.5	30
29	Helicobacter pylori chemoreceptor TlpC mediates chemotaxis to lactate. <i>Scientific Reports</i> , <b>2017</b> , 7, 140899	3.9	29
28	A fixed-time diffusion analysis method determines that the three cheV genes of Helicobacter pylori differentially affect motility. <i>Microbiology (United Kingdom)</i> , <b>2009</b> , 155, 1181-1191	2.9	29
27	Proteomic mapping of a suppressor of non-chemotactic cheW mutants reveals that Helicobacter pylori contains a new chemotaxis protein. <i>Molecular Microbiology</i> , <b>2006</b> , 61, 871-82	4.1	28
26	Internal sense of direction: sensing and signaling from cytoplasmic chemoreceptors. <i>Microbiology and Molecular Biology Reviews</i> , <b>2014</b> , 78, 672-84	13.2	27
25	Recombination-based in vivo expression technology identifies Helicobacter pylori genes important for host colonization. <i>Infection and Immunity</i> , <b>2008</b> , 76, 5632-44	3.7	27
24	Spatial and Temporal Shifts in Bacterial Biogeography and Gland Occupation during the Development of a Chronic Infection. <i>MBio</i> , <b>2016</b> , 7,	7.8	24
23	The chemical-in-plug bacterial chemotaxis assay is prone to false positive responses. <i>BMC Research Notes</i> , <b>2010</b> , 3, 77	2.3	21
22	Conserved transcriptional unit organization of the cag pathogenicity island among Helicobacter pylori strains. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2012</b> , 2, 46	5.9	17
21	Chemotaxis Allows Bacteria To Overcome Host-Generated Reactive Oxygen Species That Constrain Gland Colonization. <i>Infection and Immunity</i> , <b>2018</b> , 86,	3.7	16
20	Helicobacter pylori CheZ(HP) and ChePep form a novel chemotaxis-regulatory complex distinct from the core chemotaxis signaling proteins and the flagellar motor. <i>Molecular Microbiology</i> , <b>2015</b> , 97, 1063-78	4.1	16
19	Helicobacter pylori Uses the TlpB Receptor To Sense Sites of Gastric Injury. <i>Infection and Immunity</i> , <b>2019</b> , 87,	3.7	15
18	A remote CheZ orthologue retains phosphatase function. <i>Molecular Microbiology</i> , <b>2010</b> , 77, 225-35	4.1	15
17	The Helicobacter pylori autotransporter ImaA (HP0289) modulates the immune response and contributes to host colonization. <i>Infection and Immunity</i> , <b>2012</b> , 80, 2286-96	3.7	15
16	Experimental analysis of Helicobacter pylori transcriptional terminators suggests this microbe uses both intrinsic and factor-dependent termination. <i>Molecular Microbiology</i> , <b>2008</b> , 67, 155-70	4.1	15
15	Converting a transmembrane receptor to a soluble receptor: recognition domain to effector domain signaling after excision of the transmembrane domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 11201-4	11.5	11
14	Cooperation of two distinct coupling proteins creates chemosensory network connections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 2970-2975	11.5	9
13	Biofilm Confers Antibiotic Tolerance in Part via A Protein-Dependent Mechanism. <i>Antibiotics</i> , <b>2020</b> , 9,	4.9	9

12	Regulation of Cholera Toxin Expression	177-185		8
11	Genetic requirements and transcriptomics of <i>Helicobacter pylori</i> biofilm formation on abiotic and biotic surfaces. <i>Npj Biofilms and Microbiomes</i> , <b>2020</b> , 6, 56		8.2	7
10	The <i>Helicobacter pylori</i> Autotransporter ImaA Tempers the Bacterium's Interaction with $\beta$ 1 Integrin. <i>Infection and Immunity</i> , <b>2017</b> , 85,		3.7	5
9	Three SpoA-domain proteins interact in the creation of the flagellar type III secretion system in. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 13961-13973		5.4	5
8	Control of bacterial colonization in the glands and crypts. <i>Current Opinion in Microbiology</i> , <b>2019</b> , 47, 38-44.		4.9	5
7	The dCache Chemoreceptor TlpA of <i>Helicobacter pylori</i> Binds Multiple Attractant and Antagonistic Ligands via Distinct Sites. <i>MBio</i> , <b>2021</b> , 12, e0181921		7.8	3
6	<i>H. pylori</i> GPS: Modulating Host Metabolites for Location Sensing. <i>Cell Host and Microbe</i> , <b>2015</b> , 18, 135-6	23.4		2
5	Two Spatial Chemotaxis Assays: The Nutrient-Depleted Chemotaxis Assay and the Agarose-Plug-Bridge Assay. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1729, 23-31		1.4	2
4	The flagellar motor protein FlhL forms a scaffold of circumferentially positioned rings required for stator activation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,		11.5	2
3	<i>Helicobacter pylori</i> biofilm cells are metabolically distinct, express flagella, and antibiotic tolerant			2
2	Gastric Metabolomics Detects <i>Helicobacter pylori</i> Correlated Loss of Numerous Metabolites in Both the Corpus and Antrum. <i>Infection and Immunity</i> , <b>2021</b> , 89,		3.7	2
1	Effect of <i>Helicobacter pylori</i> chemotaxis on gastric epithelial repair. <i>FASEB Journal</i> , <b>2019</b> , 33, 869.19		0.9	