Karen M Ottemann

List of Publications by Year in Descending Order

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	The flagellar motor protein FliL forms a scaffold of circumferentially positioned rings required for stator activation.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119,	11.5	2
64	Gastric Metabolomics Detects Helicobacter pylori Correlated Loss of Numerous Metabolites in Both the Corpus and Antrum. *Infection and Immunity*, **2021**, 89,	3.7	2
63	The dCache Chemoreceptor TlpA of Helicobacter pylori Binds Multiple Attractant and Antagonistic Ligands via Distinct Sites. *MBio*, **2021**, 12, e0181921	7.8	3
62	Biofilm Confers Antibiotic Tolerance in Part via A Protein-Dependent Mechanism. *Antibiotics*, **2020**, 9,	4.9	9
61	Genetic requirements and transcriptomics of Helicobacter pylori biofilm formation on abiotic and biotic surfaces. *Npj Biofilms and Microbiomes*, **2020**, 6, 56	8.2	7
60	Helicobacter pylori Uses the TlpB Receptor To Sense Sites of Gastric Injury. *Infection and Immunity*, **2019**, 87,	3.7	15
59	Effect of Helicobacter pylori chemotaxis on gastric epithelial repair. *FASEB Journal*, **2019**, 33, 869.19	0.9	
58	Control of bacterial colonization in the glands and crypts. *Current Opinion in Microbiology*, **2019**, 47, 38-44	7.9	5
57	Chemotaxis Allows Bacteria To Overcome Host-Generated Reactive Oxygen Species That Constrain Gland Colonization. *Infection and Immunity*, **2018**, 86,	3.7	16
56	Two Spatial Chemotaxis Assays: The Nutrient-Depleted Chemotaxis Assay and the Agarose-Plug-Bridge Assay. *Methods in Molecular Biology*, **2018**, 1729, 23-31	1.4	2
55	Three SpoA-domain proteins interact in the creation of the flagellar type III secretion system in. *Journal of Biological Chemistry*, **2018**, 293, 13961-13973	5.4	5
54	Helicobacter pylori Biofilm Formation and Its Potential Role in Pathogenesis. *Microbiology and Molecular Biology Reviews*, **2018**, 82,	13.2	65
53	Colonization, localization, and inflammation: the roles of H. pylori chemotaxis in vivo. *Current Opinion in Microbiology*, **2018**, 41, 51-57	7.9	53
52	Helicobacter pylori Biofilm Involves a Multigene Stress-Biased Response, Including a Structural Role for Flagella. *MBio*, **2018**, 9,	7.8	32
51	Eosinophils suppress Th1 responses and restrict bacterially induced gastrointestinal inflammation. *Journal of Experimental Medicine*, **2018**, 215, 2055-2072	16.6	53
50	Fallacy of the Unique Genome: Sequence Diversity within Single Strains. *MBio*, **2017**, 8,	7.8	49
49	Cooperation of two distinct coupling proteins creates chemosensory network connections. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 2970-2975	11.5	9

48	The Helicobacter pylori Autotransporter ImaA Tempers the Bacterium□s Interaction with □1 Integrin. *Infection and Immunity*, **2017**, 85,	3.7	5
47	Helicobacter pylori chemoreceptor TlpC mediates chemotaxis to lactate. *Scientific Reports*, **2017**, 7, 14089	4.9	29
46	NLRP3 Controls the Development of Gastrointestinal CD11b Dendritic Cells in the Steady State and during Chronic Bacterial Infection. *Cell Reports*, **2017**, 21, 3860-3872	10.6	30
45	How Helicobacter pylori senses, targets and interacts with the gastric epithelium. *Environmental Microbiology*, **2016**, 18, 791-806	5.2	48
44	The Helicobacter pylori CZB Cytoplasmic Chemoreceptor TlpD Forms an Autonomous Polar Chemotaxis Signaling Complex That Mediates a Tactic Response to Oxidative Stress. *Journal of Bacteriology*, **2016**, 198, 1563-75	3.5	30
43	Spatial and Temporal Shifts in Bacterial Biogeography and Gland Occupation during the Development of a Chronic Infection. *MBio*, **2016**, 7,	7.8	24
42	CD44 plays a functional role in Helicobacter pylori-induced epithelial cell proliferation. *PLoS Pathogens*, **2015**, 11, e1004663	7.6	114
41	Vibrio cholerae Response Regulator VxrB Controls Colonization and Regulates the Type VI Secretion System. *PLoS Pathogens*, **2015**, 11, e1004933	7.6	40
40	H.□pylori GPS: Modulating Host Metabolites for Location Sensing. *Cell Host and Microbe*, **2015**, 18, 135-6	23.4	2
39	Helicobacter pylori CheZ(HP) and ChePep form a novel chemotaxis-regulatory complex distinct from the core chemotaxis signaling proteins and the flagellar motor. *Molecular Microbiology*, **2015**, 97, 1063-78	4.1	16
38	The use of murine-derived fundic organoids in studies of gastric physiology. *Journal of Physiology*, **2015**, 593, 1809-27	3.9	85
37	Helicobacter pylori-induced Sonic Hedgehog expression is regulated by NF□B pathway activation: the use of a novel in vitro model to study epithelial response to infection. *Helicobacter*, **2015**, 20, 19-28	4.9	49
36	Motility and chemotaxis mediate the preferential colonization of gastric injury sites by Helicobacter pylori. *PLoS Pathogens*, **2014**, 10, e1004275	7.6	52
35	Internal sense of direction: sensing and signaling from cytoplasmic chemoreceptors. *Microbiology and Molecular Biology Reviews*, **2014**, 78, 672-84	13.2	27
34	Structural basis of FliG-FliM interaction in Helicobacter pylori. *Molecular Microbiology*, **2013**, 88, 798-812	4.1	32
33	A supplemented soft agar chemotaxis assay demonstrates the Helicobacter pylori chemotactic response to zinc and nickel. *Microbiology (United Kingdom)*, **2013**, 159, 46-57	2.9	35
32	The degree of Helicobacter pylori-triggered inflammation is manipulated by preinfection host microbiota. *Infection and Immunity*, **2013**, 81, 1382-9	3.7	61
31	Conserved transcriptional unit organization of the cag pathogenicity island among Helicobacter pylori strains. *Frontiers in Cellular and Infection Microbiology*, **2012**, 2, 46	5.9	17

30	Helicobacter pylori requires TlpD-driven chemotaxis to proliferate in the antrum. *Infection and Immunity*, **2012**, 80, 3713-20	3.7	44
29	The Helicobacter pylori autotransporter ImaA (HP0289) modulates the immune response and contributes to host colonization. *Infection and Immunity*, **2012**, 80, 2286-96	3.7	15
28	Motility and chemotaxis in Campylobacter and Helicobacter. *Annual Review of Microbiology*, **2011**, 65, 389-410	17.5	207
27	ChePep controls Helicobacter pylori Infection of the gastric glands and chemotaxis in the Epsilonproteobacteria. *MBio*, **2011**, 2,	7.8	80
26	Identification of a chemoreceptor zinc-binding domain common to cytoplasmic bacterial chemoreceptors. *Journal of Bacteriology*, **2011**, 193, 4338-45	3.5	30
25	Helicobacter pylori perceives the quorum-sensing molecule AI-2 as a chemorepellent via the chemoreceptor TlpB. *Microbiology (United Kingdom)*, **2011**, 157, 2445-2455	2.9	84
24	Bacterial chemotaxis modulates host cell apoptosis to establish a T-helper cell, type 17 (Th17)-dominant immune response in Helicobacter pylori infection. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 19749-54	11.5	31
23	A remote CheZ orthologue retains phosphatase function. *Molecular Microbiology*, **2010**, 77, 225-35	4.1	15
22	Recombination-Based In Vivo Expression Technology Identifies Helicobacter pylori Genes Important for Host Colonization. *Infection and Immunity*, **2010**, 78, 4967-4967	3.7	78
21	CheV: CheW-like coupling proteins at the core of the chemotaxis signaling network. *Trends in Microbiology*, **2010**, 18, 494-503	12.4	50
20	The chemical-in-plug bacterial chemotaxis assay is prone to false positive responses. *BMC Research Notes*, **2010**, 3, 77	2.3	21
19	Functional analysis of the Helicobacter pylori flagellar switch proteins. *Journal of Bacteriology*, **2009**, 191, 7147-56	3.5	50
18	The complete genome sequence of Helicobacter pylori strain G27. *Journal of Bacteriology*, **2009**, 191, 447-8	3.5	155
17	A fixed-time diffusion analysis method determines that the three cheV genes of Helicobacter pylori differentially affect motility. *Microbiology (United Kingdom)*, **2009**, 155, 1181-1191	2.9	29
16	Recombination-based in vivo expression technology identifies Helicobacter pylori genes important for host colonization. *Infection and Immunity*, **2008**, 76, 5632-44	3.7	27
15	Experimental analysis of Helicobacter pylori transcriptional terminators suggests this microbe uses both intrinsic and factor-dependent termination. *Molecular Microbiology*, **2008**, 67, 155-70	4.1	15
14	Helicobacter pylori chemotaxis modulates inflammation and bacterium-gastric epithelium interactions in infected mice. *Infection and Immunity*, **2007**, 75, 3747-57	3.7	86
13	Proteomic mapping of a suppressor of non-chemotactic cheW mutants reveals that Helicobacter pylori contains a new chemotaxis protein. *Molecular Microbiology*, **2006**, 61, 871-82	4.1	28

12	Colonization and inflammation deficiencies in Mongolian gerbils infected by Helicobacter pylori chemotaxis mutants. *Infection and Immunity*, **2005**, 73, 1820-7	3.7	93
11	Chemotaxis plays multiple roles during Helicobacter pylori animal infection. *Infection and Immunity*, **2005**, 73, 803-11	3.7	124
10	Helicobacter pylori uses motility for initial colonization and to attain robust infection. *Infection and Immunity*, **2002**, 70, 1984-90	3.7	223
9	Two predicted chemoreceptors of Helicobacter pylori promote stomach infection. *Infection and Immunity*, **2002**, 70, 5877-81	3.7	53
8	A piston model for transmembrane signaling of the aspartate receptor. *Science*, **1999**, 285, 1751-4	33.3	241
7	Direct measurement of small ligand-induced conformational changes in the aspartate chemoreceptor using EPR. *Biochemistry*, **1998**, 37, 7062-9	3.2	40
6	Converting a transmembrane receptor to a soluble receptor: recognition domain to effector domain signaling after excision of the transmembrane domain. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 11201-4	11.5	11
5	Roles for motility in bacterial-host interactions. *Molecular Microbiology*, **1997**, 24, 1109-17	4.1	240
4	The ToxR protein of Vibrio cholerae forms homodimers and heterodimers. *Journal of Bacteriology*, **1996**, 178, 156-62	3.5	42
3	Analysis of Vibrio cholerae ToxR function by construction of novel fusion proteins. *Molecular Microbiology*, **1995**, 15, 719-31	4.1	37
2	Regulation of Cholera Toxin Expression177-185		8
1	Helicobacter pylori biofilm cells are metabolically distinct, express flagella, and antibiotic tolerant		2