

# Karen Guillemin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/480810/publications.pdf>

Version: 2024-02-01

89  
papers

8,177  
citations

66343

42  
h-index

60623

81  
g-index

107  
all docs

107  
docs citations

107  
times ranked

8135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for a core gut microbiota in the zebrafish. <i>ISME Journal</i> , 2011, 5, 1595-1608.	9.8	990
2	Contribution of neutral processes to the assembly of gut microbial communities in the zebrafish over host development. <i>ISME Journal</i> , 2016, 10, 655-664.	9.8	627
3	Intestinal Alkaline Phosphatase Detoxifies Lipopolysaccharide and Prevents Inflammation in Zebrafish in Response to the Gut Microbiota. <i>Cell Host and Microbe</i> , 2007, 2, 371-382.	11.0	613
4	Distinct signals from the microbiota promote different aspects of zebrafish gut differentiation. <i>Developmental Biology</i> , 2006, 297, 374-386.	2.0	543
5	The composition of the zebrafish intestinal microbial community varies across development. <i>ISME Journal</i> , 2016, 10, 644-654.	9.8	524
6	The Hypoxic Response: Huffing and HIFing. <i>Cell</i> , 1997, 89, 9-12.	28.9	446
7	Epithelial cell proliferation in the developing zebrafish intestine is regulated by the Wnt pathway and microbial signaling via Myd88. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4570-4577.	7.1	231
8	Cag pathogenicity island-specific responses of gastric epithelial cells to <i>Helicobacter pylori</i> infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15136-15141.	7.1	202
9	The Complete Genome Sequence of <i>Helicobacter pylori</i> Strain G27. <i>Journal of Bacteriology</i> , 2009, 191, 447-448.	2.2	183
10	Host Gut Motility Promotes Competitive Exclusion within a Model Intestinal Microbiota. <i>PLoS Biology</i> , 2016, 14, e1002517.	5.6	164
11	Chemodetection and Destruction of Host Urea Allows <i>Helicobacter pylori</i> to Locate the Epithelium. <i>Cell Host and Microbe</i> , 2015, 18, 147-156.	11.0	141
12	Individual Members of the Microbiota Disproportionately Modulate Host Innate Immune Responses. <i>Cell Host and Microbe</i> , 2015, 18, 613-620.	11.0	135
13	Interhost dispersal alters microbiome assembly and can overwhelm host innate immunity in an experimental zebrafish model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11181-11186.	7.1	131
14	The enteric nervous system promotes intestinal health by constraining microbiota composition. <i>PLoS Biology</i> , 2017, 15, e2000689.	5.6	126
15	Comparison of Genetic Divergence and Fitness between Two Subclones of <i>Helicobacter pylori</i> . <i>Infection and Immunity</i> , 2001, 69, 7832-7838.	2.2	120
16	A conserved bacterial protein induces pancreatic beta cell expansion during zebrafish development. <i>ELife</i> , 2016, 5, .	6.0	117
17	Study of Host-Microbe Interactions in Zebrafish. <i>Methods in Cell Biology</i> , 2011, 105, 87-116.	1.1	110
18	<i>Helicobacter pylori</i> perceives the quorum-sensing molecule AI-2 as a chemorepellent via the chemoreceptor TlpB. <i>Microbiology (United Kingdom)</i> , 2011, 157, 2445-2455.	1.8	102

#	ARTICLE	IF	CITATIONS
19	Ontogenetic Differences in Dietary Fat Influence Microbiota Assembly in the Zebrafish Gut. MBio, 2015, 6, e00687-15.	4.1	101
20	Distinct gene expression profiles characterize the histopathological stages of disease in Helicobacter-induced mucosa-associated lymphoid tissue lymphoma. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1292-1297.	7.1	100
21	The hygiene hypothesis, the COVID pandemic, and consequences for the human microbiome. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	100
22	Helicobacter pylori-host cell interactions mediated by type IV secretion. Cellular Microbiology, 2005, 7, 911-919.	2.1	96
23	<i>H. pylori</i> virulence factor CagA increases intestinal cell proliferation by Wnt pathway activation in a transgenic zebrafish model. DMM Disease Models and Mechanisms, 2013, 6, 802-10.	2.4	95
24	Spatial and Temporal Features of the Growth of a Bacterial Species Colonizing the Zebrafish Gut. MBio, 2014, 5, .	4.1	93
25	The role of adaptive immunity as an ecological filter on the gut microbiota in zebrafish. ISME Journal, 2017, 11, 1630-1639.	9.8	93
26	NATURAL TRANSFORMATION INCREASES THE RATE OF ADAPTATION IN THE HUMAN PATHOGEN HELICOBACTER PYLORI. Evolution; International Journal of Organic Evolution, 2007, 62, 071101082849001-???	2.3	89
27	Structure and Proposed Mechanism for the pH-Sensing Helicobacter pylori Chemoreceptor TlpB. Structure, 2012, 20, 1177-1188.	3.3	88
28	The Quorum-Sensing Molecule Autoinducer 2 Regulates Motility and Flagellar Morphogenesis in <i>Helicobacter pylori</i> . Journal of Bacteriology, 2007, 189, 6109-6117.	2.2	84
29	Chemorepulsion from the Quorum Signal Autoinducer-2 Promotes Helicobacter pylori Biofilm Dispersal. MBio, 2015, 6, e00379.	4.1	84
30	Experimental bacterial adaptation to the zebrafish gut reveals a primary role for immigration. PLoS Biology, 2018, 16, e2006893.	5.6	83
31	We know you are in there: Conversing with the indigenous gut microbiota. Research in Microbiology, 2007, 158, 2-9.	2.1	78
32	Multiple Acid Sensors Control Helicobacter pylori Colonization of the Stomach. PLoS Pathogens, 2017, 13, e1006118.	4.7	72
33	A Transgenic Drosophila Model Demonstrates That the Helicobacter pylori CagA Protein Functions as a Eukaryotic Gab Adaptor. PLoS Pathogens, 2008, 4, e1000064.	4.7	66
34	Modernized Tools for Streamlined Genetic Manipulation and Comparative Study of Wild and Diverse Proteobacterial Lineages. MBio, 2018, 9, .	4.1	65
35	Microbiota promote secretory cell determination in the intestinal epithelium by modulating host Notch signaling. Development (Cambridge), 2018, 145, .	2.5	64
36	Helicobacter pylori CagA Induces AGS Cell Elongation through a Cell Retraction Defect That Is Independent of Cdc42, Rac1, and Arp2/3. Infection and Immunity, 2007, 75, 1203-1213.	2.2	59

#	ARTICLE	IF	CITATIONS
37	Innate immune responses to gut microbiota differ between threespine stickleback populations. <i>DMM Disease Models and Mechanisms</i> , 2015, 9, 187-98.	2.4	58
38	Swimming motility of a gut bacterial symbiont promotes resistance to intestinal expulsion and enhances inflammation. <i>PLoS Biology</i> , 2020, 18, e3000661.	5.6	58
39	Identification of Population Bottlenecks and Colonization Factors during Assembly of Bacterial Communities within the Zebrafish Intestine. <i>MBio</i> , 2015, 6, e01163-15.	4.1	56
40	Dynamic Evolution of the LPS-Detoxifying Enzyme Intestinal Alkaline Phosphatase in Zebrafish and Other Vertebrates. <i>Frontiers in Immunology</i> , 2012, 3, 314.	4.8	50
41	Bacterial Cohesion Predicts Spatial Distribution in the Larval Zebrafish Intestine. <i>Biophysical Journal</i> , 2018, 115, 2271-2277.	0.5	50
42	Zebrafish microbiome studies make waves. <i>Lab Animal</i> , 2020, 49, 201-207.	0.4	50
43	Investigating Bacterial-Animal Symbioses with Light Sheet Microscopy. <i>Biological Bulletin</i> , 2012, 223, 7-20.	1.8	48
44	Colonization of Germ-free Transgenic Mice with Genotyped <i>Helicobacter pylori</i> Strains from a Case-Control Study of Gastric Cancer Reveals a Correlation between Host Responses and HsdS Components of Type I Restriction-Modification Systems. <i>Journal of Biological Chemistry</i> , 2002, 277, 34191-34197.	3.4	47
45	Sublethal antibiotics collapse gut bacterial populations by enhancing aggregation and expulsion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21392-21400.	7.1	46
46	A bacterial immunomodulatory protein with lipocalin-like domains facilitates host-bacteria mutualism in larval zebrafish. <i>ELife</i> , 2018, 7, .	6.0	46
47	<i>Helicobacter pylori</i> senses bleach (HOCl) as a chemoattractant using a cytosolic chemoreceptor. <i>PLoS Biology</i> , 2019, 17, e3000395.	5.6	42
48	Host Genotype and Microbiota Contribute Asymmetrically to Transcriptional Variation in the Threespine Stickleback Gut. <i>Genome Biology and Evolution</i> , 2017, 9, 504-520.	2.5	40
49	The scales of the zebrafish: host-microbiota interactions from proteins to populations. <i>Current Opinion in Microbiology</i> , 2017, 38, 137-141.	5.1	36
50	Transgenic Expression of the <i>Helicobacter pylori</i> Virulence Factor CagA Promotes Apoptosis or Tumorigenesis through JNK Activation in <i>Drosophila</i> . <i>PLoS Pathogens</i> , 2012, 8, e1002939.	4.7	35
51	Evolutionary Experiments in Symbiosis: The Study of Model Animals Provides Insights into the Mechanisms Underlying the Diversity of Host-Microbe Interactions. <i>BioEssays</i> , 2019, 41, e1800256.	2.5	34
52	Market Integration Predicts Human Gut Microbiome Attributes across a Gradient of Economic Development. <i>MSystems</i> , 2018, 3, .	3.8	31
53	The bacterial virulence factor CagA induces microbial dysbiosis that contributes to excessive epithelial cell proliferation in the <i>Drosophila</i> gut. <i>PLoS Pathogens</i> , 2017, 13, e1006631.	4.7	31
54	A Retrospective Study of the Prevalence and Classification of Intestinal Neoplasia in Zebrafish ( <i>Danio Rerio</i> ). <i>Zebrafish</i> , 2013, 10, 228-236.	1.1	29

#	ARTICLE	IF	CITATIONS
55	The <i>Helicobacter pylori</i> cag Pathogenicity Island Protein CagN Is a Bacterial Membrane-Associated Protein That Is Processed at Its C Terminus. <i>Infection and Immunity</i> , 2006, 74, 2537-2543.	2.2	25
56	Bacteria evoke alarm behaviour in zebrafish. <i>Nature Communications</i> , 2019, 10, 3831.	12.8	24
57	Agent-Based Modeling Demonstrates How Local Chemotactic Behavior Can Shape Biofilm Architecture. <i>MSphere</i> , 2019, 4, .	2.9	23
58	Draft Genome Sequence of <i>Aeromonas veronii</i> Hm21, a Symbiotic Isolate from the Medicinal Leech Digestive Tract. <i>Genome Announcements</i> , 2013, 1, .	0.8	22
59	Host-emitted amino acid cues regulate bacterial chemokinesis to enhance colonization. <i>Cell Host and Microbe</i> , 2021, 29, 1221-1234.e8.	11.0	21
60	Intestinal Alkaline Phosphatase Deficiency Leads to Lipopolysaccharide Desensitization and Faster Weight Gain. <i>Infection and Immunity</i> , 2015, 83, 247-258.	2.2	19
61	Identification and Characterization of Zebrafish Tlr4 Coreceptor Md-2. <i>Journal of Immunology</i> , 2021, 206, 1046-1057.	0.8	19
62	Ontogeny of alkaline phosphatase activity in infant intestines and breast milk. <i>BMC Pediatrics</i> , 2019, 19, 2.	1.7	17
63	Identification of genetic modifiers of CagA-induced epithelial disruption in <i>Drosophila</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2012, 2, 24.	3.9	16
64	The Other Side of the Coin: What Beneficial Microbes Can Teach Us about Pathogenic Potential. <i>Journal of Molecular Biology</i> , 2019, 431, 2946-2956.	4.2	16
65	Intestinal Inflammation Induced by Soybean Meal Ingestion Increases Intestinal Permeability and Neutrophil Turnover Independently of Microbiota in Zebrafish. <i>Frontiers in Immunology</i> , 2020, 11, 1330.	4.8	16
66	The SARS-CoV-2 receptor and other key components of the Renin-Angiotensin-Aldosterone System related to COVID-19 are expressed in enterocytes in larval zebrafish. <i>Biology Open</i> , 2021, 10, .	1.2	14
67	The dCache Chemoreceptor TlpA of <i>Helicobacter pylori</i> Binds Multiple Attractant and Antagonistic Ligands via Distinct Sites. <i>MBio</i> , 2021, 12, e0181921.	4.1	14
68	Multidisciplinarity in Microbiome Research: A Challenge and Opportunity to Rethink Causation, Variability, and Scale. <i>BioEssays</i> , 2019, 41, e1900007.	2.5	12
69	<i>Pseudocapillaria tomentosa</i> , <i>Mycoplasma</i> spp., and Intestinal Lesions in Experimentally Infected Zebrafish <i>Danio rerio</i> . <i>Zebrafish</i> , 2021, 18, 207-220.	1.1	12
70	Enteric nervous system modulation of luminal pH modifies the microbial environment to promote intestinal health. <i>PLoS Pathogens</i> , 2022, 18, e1009989.	4.7	11
71	Patterns of partnership: surveillance and mimicry in host-microbiota mutualisms. <i>Current Opinion in Microbiology</i> , 2020, 54, 87-94.	5.1	10
72	Starvation causes changes in the intestinal transcriptome and microbiome that are reversed upon refeeding. <i>BMC Genomics</i> , 2022, 23, 225.	2.8	10

#	ARTICLE	IF	CITATIONS
73	H.Âpyloriâ€™s BabA Embraces Change. Cell Host and Microbe, 2016, 19, 5-7.	11.0	9
74	Structures of the ligandâ€™binding domain of <i>Helicobacter pylori</i> chemoreceptor TlpA. Protein Science, 2018, 27, 1961-1968.	7.6	9
75	A Bacterial Inflammation Sensor Regulates c-di-GMP Signaling, Adhesion, and Biofilm Formation. MBio, 2021, 12, e0017321.	4.1	9
76	Zebrafish <i>mbnl</i> mutants model physical and molecular phenotypes of myotonic dystrophy. DMM Disease Models and Mechanisms, 2021, 14, .	2.4	7
77	Racing to Stay Put: How Resident Microbiota Stimulate Intestinal Epithelial Cell Proliferation. Current Pathobiology Reports, 2018, 6, 23-28.	3.4	5
78	Packing in the Proteins. Developmental Cell, 2019, 51, 1-2.	7.0	5
79	Immigrants in immunology: the benefits of lax borders. Trends in Immunology, 2015, 36, 286-289.	6.8	3
80	The Impacts of Microbiota on Animal Development and Physiology. , 2022, , 177-196.		3
81	Reports from a Healthy Community: the 7th Conference on Beneficial Microbes. Applied and Environmental Microbiology, 2019, 85, .	3.1	1
82	Hiding in Plain Sight. Cell Host and Microbe, 2021, 29, 5-7.	11.0	1
83	Evolving in a Microbial Soup: You Are What They Eat. Developmental Cell, 2018, 47, 682-683.	7.0	0
84	Editorial overview: Frontiers in microbiome studies: viewing vast vistas with roadmap in hand. Current Opinion in Microbiology, 2019, 50, iii-iv.	5.1	0
85	A twist in the tail. ELife, 2014, 3, e02386.	6.0	0
86	Title is missing!. , 2020, 18, e3000661.		0
87	Title is missing!. , 2020, 18, e3000661.		0
88	Title is missing!. , 2020, 18, e3000661.		0
89	Title is missing!. , 2020, 18, e3000661.		0