Matthias Horn

List of Publications by Citations

100 papers	12,942 citations	51 h-index	105 g-index
105 ext. papers	15,985 ext. citations	8.4 avg, IF	6.26 L-index

#	Paper	IF	Citations
100	Evaluation of general 16S ribosomal RNA gene PCR primers for classical and next-generation sequencing-based diversity studies. *Nucleic Acids Research*, **2013**, 41, e1	20.1	3890
99	Deciphering the evolution and metabolism of an anammox bacterium from a community genome. *Nature*, **2006**, 440, 790-4	50.4	861
98	Molecular evidence for a uniform microbial community in sponges from different oceans. *Applied and Environmental Microbiology*, **2002**, 68, 4431-40	4.8	531
97	Amoebae as training grounds for intracellular bacterial pathogens. *Applied and Environmental Microbiology*, **2005**, 71, 20-8	4.8	379
96	probeBase--an online resource for rRNA-targeted oligonucleotide probes: new features 2007. *Nucleic Acids Research*, **2007**, 35, D800-4	20.1	373
95	The Planctomycetes, Verrucomicrobia, Chlamydiae and sister phyla comprise a superphylum with biotechnological and medical relevance. *Current Opinion in Biotechnology*, **2006**, 17, 241-9	11.4	351
94	Illuminating the evolutionary history of chlamydiae. *Science*, **2004**, 304, 728-30	33.3	333
93	probeBase: an online resource for rRNA-targeted oligonucleotide probes. *Nucleic Acids Research*, **2003**, 31, 514-6	20.1	302
92	Deep sequencing reveals exceptional diversity and modes of transmission for bacterial sponge symbionts. *Environmental Microbiology*, **2010**, 12, 2070-82	5.2	298
91	Fluorescence in situ hybridisation for the identification and characterisation of prokaryotes. *Current Opinion in Microbiology*, **2003**, 6, 302-9	7.9	298
90	Discovery of the novel candidate phylum "Poribacteria" in marine sponges. *Applied and Environmental Microbiology*, **2004**, 70, 3724-32	4.8	238
89	Chlamydiae as symbionts in eukaryotes. *Annual Review of Microbiology*, **2008**, 62, 113-31	17.5	220
88	Genome of Acanthamoeba castellanii highlights extensive lateral gene transfer and early evolution of tyrosine kinase signaling. *Genome Biology*, **2013**, 14, R11	18.3	205
87	The isotope array, a new tool that employs substrate-mediated labeling of rRNA for determination of microbial community structure and function. *Applied and Environmental Microbiology*, **2003**, 69, 6875-87	4.8	197
86	Unity in variety--the pan-genome of the Chlamydiae. *Molecular Biology and Evolution*, **2011**, 28, 3253-70	8.3	157
85	probeCheck--a central resource for evaluating oligonucleotide probe coverage and specificity. *Environmental Microbiology*, **2008**, 10, 2894-8	5.2	154
84	Giant viruses with an expanded complement of translation system components. *Science*, **2017**, 356, 82-85	33.3	148

83	Novel bacterial endosymbionts of Acanthamoeba spp. related to the Paramecium caudatum symbiont Caedibacter caryophilus. *Environmental Microbiology*, **1999**, 1, 357-67	5.2	148
82	ATP/ADP translocases: a common feature of obligate intracellular amoebal symbionts related to Chlamydiae and Rickettsiae. *Journal of Bacteriology*, **2004**, 186, 683-91	3.5	135
81	Bacterial endosymbionts of free-living amoebae. *Journal of Eukaryotic Microbiology*, **2004**, 51, 509-14	3.6	126
80	Novel chlamydiae in whiteflies and scale insects: endosymbionts TCandidatus Fritschea bemisiaeT strain Falk and TCandidatus Fritschea eriococciTstrain Elm. *International Journal of Systematic and Evolutionary Microbiology*, **2005**, 55, 1581-1587	2.2	124
79	Neochlamydia hartmannellae gen. nov., sp. nov. (Parachlamydiaceae), an endoparasite of the amoeba Hartmannella vermiformis. *Microbiology (United Kingdom)*, **2000**, 146 (Pt 5), 1231-1239	2.9	123
78	probeBase--an online resource for rRNA-targeted oligonucleotide probes and primers: new features 2016. *Nucleic Acids Research*, **2016**, 44, D586-9	20.1	119
77	Molecular analysis of bacteria in periodontitis: evaluation of clone libraries, novel phylotypes and putative pathogens. *Microbiology (United Kingdom)*, **2003**, 149, 67-75	2.9	119
76	Phylogenetic diversity among geographically dispersed Chlamydiales endosymbionts recovered from clinical and environmental isolates of Acanthamoeba spp. *Applied and Environmental Microbiology*, **2000**, 66, 2613-9	4.8	119
75	The genome of the amoeba symbiont "Candidatus Amoebophilus asiaticus" reveals common mechanisms for host cell interaction among amoeba-associated bacteria. *Journal of Bacteriology*, **2010**, 192, 1045-57	3.5	113
74	Discovery of chlamydial peptidoglycan reveals bacteria with murein sacculi but without FtsZ. *Nature Communications*, **2013**, 4, 2856	17.4	106
73	Phylogenetic analysis of and oligonucleotide probe development for eikelboom type 021N filamentous bacteria isolated from bulking activated sludge. *Applied and Environmental Microbiology*, **2000**, 66, 5043-52	4.8	104
72	Emendation of the family Chlamydiaceae: proposal of a single genus, Chlamydia, to include all currently recognized species. *Systematic and Applied Microbiology*, **2015**, 38, 99-103	4.2	102
71	Comparative genomics suggests an independent origin of cytoplasmic incompatibility in Cardinium hertigii. *PLoS Genetics*, **2012**, 8, e1003012	6	100
70	The genus Caedibacter comprises endosymbionts of Paramecium spp. related to the Rickettsiales (Alphaproteobacteria) and to Francisella tularensis (Gammaproteobacteria). *Applied and Environmental Microbiology*, **2002**, 68, 6043-50	4.8	96
69	Various bacterial pathogens and symbionts infect the amoeba Dictyostelium discoideum. *International Journal of Medical Microbiology*, **2002**, 291, 615-24	3.7	89
68	A candidate NAD+ transporter in an intracellular bacterial symbiont related to Chlamydiae. *Nature*, **2004**, 432, 622-5	50.4	85
67	Monitoring microbial diversity and natural product profiles of the sponge Aplysina cavernicola following transplantation. *Marine Biology*, **2003**, 142, 685-692	2.5	84
66	Raman microspectroscopy reveals long-term extracellular activity of Chlamydiae. *Molecular Microbiology*, **2010**, 77, 687-700	4.1	80

65	In situ architecture, function, and evolution of a contractile injection system. *Science*, **2017**, 357, 713-717	33.3	79
64	Diversity of bacterial endosymbionts of environmental acanthamoeba isolates. *Applied and Environmental Microbiology*, **2008**, 74, 5822-31	4.8	77
63	ŦCandidatus Protochlamydia amoebophilaŢ an endosymbiont of Acanthamoeba spp. *International Journal of Systematic and Evolutionary Microbiology*, **2005**, 55, 1863-1866	2.2	77
62	Chlamydial metabolism revisited: interspecies metabolic variability and developmental stage-specific physiologic activities. *FEMS Microbiology Reviews*, **2014**, 38, 779-801	15.1	76
61	Members of the Cytophaga-Flavobacterium-Bacteroides phylum as intracellular bacteria of acanthamoebae: proposal of ŦCandidatus Amoebophilus asiaticusŢ *Environmental Microbiology*, **2001**, 3, 440-9	5.2	76
60	Integrating metagenomic and amplicon databases to resolve the phylogenetic and ecological diversity of the Chlamydiae. *ISME Journal*, **2014**, 8, 115-25	11.9	68
59	Diatom plastids depend on nucleotide import from the cytosol. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 3621-6	11.5	68
58	Chlamydia-like bacteria in respiratory samples of community-acquired pneumonia patients. *FEMS Microbiology Letters*, **2008**, 281, 198-202	2.9	65
57	Tapping the nucleotide pool of the host: novel nucleotide carrier proteins of Protochlamydia amoebophila. *Molecular Microbiology*, **2006**, 60, 1534-45	4.1	64
56	Detection and differentiation of chlamydiae by fluorescence in situ hybridization. *Applied and Environmental Microbiology*, **2002**, 68, 4081-9	4.8	64
55	Recovery of an environmental Chlamydia strain from activated sludge by co-cultivation with Acanthamoeba sp. *Microbiology (United Kingdom)*, **2005**, 151, 301-309	2.9	63
54	"Candidatus Thiobios zoothamnicoli," an ectosymbiotic bacterium covering the giant marine ciliate Zoothamnium niveum. *Applied and Environmental Microbiology*, **2006**, 72, 2014-21	4.8	61
53	Morphological and molecular investigations of Paramecium schewiakoffi sp. nov. (Ciliophora, Oligohymenophorea) and current status of distribution and taxonomy of Paramecium spp.. *European Journal of Protistology*, **2004**, 40, 225-243	3.6	60
52	Evidence for additional genus-level diversity of Chlamydiales in the environment. *FEMS Microbiology Letters*, **2001**, 204, 71-4	2.9	59
51	Paracatenula, an ancient symbiosis between thiotrophic Alphaproteobacteria and catenulid flatworms. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 12078-83	11.5	57
50	A novel betaproteobacterial agent of gill epitheliocystis in seawater farmed Atlantic salmon (Salmo salar). *PLoS ONE*, **2012**, 7, e32696	3.7	54
49	ŦCandidatus Branchiomonas cysticolaŢis a common agent of epitheliocysts in seawater-farmed Atlantic salmon Salmo salar in Norway and Ireland. *Diseases of Aquatic Organisms*, **2013**, 103, 35-43	1.7	43
48	A Rickettsiales symbiont of amoebae with ancient features. *Environmental Microbiology*, **2016**, 18, 2326-42	5.2	41

47	Plastid establishment did not require a chlamydial partner. *Nature Communications*, **2015**, 6, 6421	17.4	41
46	An Acanthamoeba sp. containing two phylogenetically different bacterial endosymbionts. *Environmental Microbiology*, **2007**, 9, 1604-9	5.2	40
45	Intranuclear bacteria: inside the cellular control center of eukaryotes. *Trends in Cell Biology*, **2015**, 25, 339-46	18.3	39
44	Architecture and host interface of environmental chlamydiae revealed by electron cryotomography. *Environmental Microbiology*, **2014**, 16, 417-29	5.2	37
43	Co-evolution and symbiont replacement shaped the symbiosis between adelgids (Hemiptera: Adelgidae) and their bacterial symbionts. *Environmental Microbiology*, **2012**, 14, 1284-95	5.2	35
42	Lawsonia intracellularis contains a gene encoding a functional rickettsia-like ATP/ADP translocase for host exploitation. *Journal of Bacteriology*, **2008**, 190, 5746-52	3.5	34
41	Single-cell genomics of a rare environmental alphaproteobacterium provides unique insights into Rickettsiaceae evolution. *ISME Journal*, **2015**, 9, 2373-85	11.9	33
40	Metabolic features of Protochlamydia amoebophila elementary bodies--a link between activity and infectivity in Chlamydiae. *PLoS Pathogens*, **2013**, 9, e1003553	7.6	33
39	Life in an unusual intracellular niche: a bacterial symbiont infecting the nucleus of amoebae. *ISME Journal*, **2014**, 8, 1634-44	11.9	32
38	Mycobacterium avium infections of Acanthamoeba strains: host strain variability, grazing-acquired infections, and altered dynamics of inactivation with monochloramine. *Applied and Environmental Microbiology*, **2010**, 76, 6685-8	4.8	28
37	Tracing the primordial Chlamydiae: extinct parasites of plants?. *Trends in Plant Science*, **2014**, 19, 36-43	13.1	27
36	Inclusion membrane proteins of Protochlamydia amoebophila UWE25 reveal a conserved mechanism for host cell interaction among the Chlamydiae. *Journal of Bacteriology*, **2010**, 192, 5093-102	3.5	27
35	The cooling tower water microbiota: Seasonal dynamics and co-occurrence of bacterial and protist phylotypes. *Water Research*, **2019**, 159, 464-479	12.5	26
34	Massive expansion of Ubiquitination-related gene families within the Chlamydiae. *Molecular Biology and Evolution*, **2014**, 31, 2890-904	8.3	26
33	Comprehensive in silico prediction and analysis of chlamydial outer membrane proteins reflects evolution and life style of the Chlamydiae. *BMC Genomics*, **2009**, 10, 634	4.5	26
32	Nucleotide parasitism by Simkania negevensis (Chlamydiae). *Journal of Bacteriology*, **2011**, 193, 225-35	3.5	26
31	Lack of effective anti-apoptotic activities restricts growth of Parachlamydiaceae in insect cells. *PLoS ONE*, **2012**, 7, e29565	3.7	25
30	The genome of the amoeba symbiont "Candidatus Amoebophilus asiaticus" encodes an afp-like prophage possibly used for protein secretion. *Virulence*, **2010**, 1, 541-5	4.7	25

29	Prediction of microbial phenotypes based on comparative genomics. *BMC Bioinformatics*, **2015**, 16 Suppl 14, S1	3.6	22
28	Symbiont-Mediated Defense against Legionella pneumophila in Amoebae. *MBio*, **2019**, 10,	7.8	20
27	Signature protein of the PVC superphylum. *Applied and Environmental Microbiology*, **2014**, 80, 440-5	4.8	18
26	Improved axenization method reveals complexity of symbiotic associations between bacteria and acanthamoebae. *Environmental Microbiology Reports*, **2014**, 6, 383-8	3.7	18
25	Bacteriocyte-associated gammaproteobacterial symbionts of the Adelges nordmannianae/piceae complex (Hemiptera: Adelgidae). *ISME Journal*, **2012**, 6, 384-96	11.9	18
24	Chlamydiae in the Environment. *Trends in Microbiology*, **2020**, 28, 877-888	12.4	17
23	Following the Footsteps of Chlamydial Gene Regulation. *Molecular Biology and Evolution*, **2015**, 32, 3035-46	8.9	17
22	A bacterial genome in transition--an exceptional enrichment of IS elements but lack of evidence for recent transposition in the symbiont Amoebophilus asiaticus. *BMC Evolutionary Biology*, **2011**, 11, 270	3	17
21	Marine amoebae with cytoplasmic and perinuclear symbionts deeply branching in the Gammaproteobacteria. *Scientific Reports*, **2015**, 5, 13381	4.9	16
20	Systematic spatial bias in DNA microarray hybridization is caused by probe spot position-dependent variability in lateral diffusion. *PLoS ONE*, **2011**, 6, e23727	3.7	16
19	High genetic similarity between two geographically distinct strains of the sulfur-oxidizing symbiont TCandidatus Thiobios zoothamnicoliT *FEMS Microbiology Ecology*, **2009**, 67, 229-41	4.3	16
18	Identification and characterization of a novel porin family highlights a major difference in the outer membrane of chlamydial symbionts and pathogens. *PLoS ONE*, **2013**, 8, e55010	3.7	15
17	TCandidatus Cochliophilus cryoturrisT(Coxiellaceae), a symbiont of the testate amoeba Cochliopodium minus. *Scientific Reports*, **2017**, 7, 3394	4.9	13
16	The pine bark Adelgid, Pineus strobi, contains two novel bacteriocyte-associated gammaproteobacterial symbionts. *Applied and Environmental Microbiology*, **2014**, 80, 878-85	4.8	13
15	Proteomic analysis reveals a virtually complete set of proteins for translation and energy generation in elementary bodies of the amoeba symbiont Protochlamydia amoebophila. *Proteomics* , **2011**, 11, 1868-92	4.8	12
14	Proteomic analysis of the outer membrane of Protochlamydia amoebophila elementary bodies. *Proteomics*, **2010**, 10, 4363-76	4.8	12
13	Conserved features and major differences in the outer membrane protein composition of chlamydiae. *Environmental Microbiology*, **2015**, 17, 1397-413	5.2	11
12	Chlamydial endocytobionts of free-living amoebae differentially affect the growth rate of their hosts. *European Journal of Protistology*, **2004**, 40, 57-60	3.6	11

11	Developmental cycle and host interaction of Rhabdochlamydia porcellionis, an intracellular parasite of terrestrial isopods. *Environmental Microbiology*, **2013**, 15, 2980-93	5.2	9
10	The endosymbiont Amoebophilus asiaticus encodes an S-adenosylmethionine carrier that compensates for its missing methylation cycle. *Journal of Bacteriology*, **2013**, 195, 3183-92	3.5	8
9	Coevolving Plasmids Drive Gene Flow and Genome Plasticity in Host-Associated Intracellular Bacteria. *Current Biology*, **2021**, 31, 346-357.e3	6.3	6
8	Trophosome of the Deep-Sea Tubeworm Riftia pachyptila Inhibits Bacterial Growth. *PLoS ONE*, **2016**, 11, e0146446	3.7	5
7	Draft Genome Sequences of Bacterium STE3 and sp. Strain AcF84, Endosymbionts of spp. *Microbiology Resource Announcements*, **2020**, 9,	1.3	3
6	Molecular causes of an evolutionary shift along the parasitism-mutualism continuum in a bacterial symbiont. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 21658-21666	11.5	3
5	Evolutionarily recent dual obligatory symbiosis among adelgids indicates a transition between fungus- and insect-associated lifestyles. *ISME Journal*, **2021**,	11.9	3
4	Draft Genome Sequence of "Candidatus Hepatoplasma crinochetorum" Ps, a Bacterial Symbiont in the Hepatopancreas of the Terrestrial Isopod Porcellio scaber. *Genome Announcements*, **2015**, 3,		1
3	Happens in the best of subfamilies: Establishment and repeated replacements of co-obligate secondary endosymbionts within Lachninae aphids		1
2	Pangenomics reveals alternative environmental lifestyles among chlamydiae. *Nature Communications*, **2021**, 12, 4021	17.4	1
1	International Committee on Systematics of Prokaryotes (ICSP) Subcommittee on the taxonomy of Chlamydiae. Minutes of the closed meeting, 20 March 2019, Seattle, WA, USA. *International Journal of Systematic and Evolutionary Microbiology*, **2019**, 69, 3654-3656	2.2	0