Hilde De Reuse

List of Publications by Year
in descending order

67 papers	4,465 citations	101543 36 h-index	110387 64 g-index
71 all docs	71 docs citations	71 times ranked	4863 citing authors

#	Article	IF	Citations
1	Nickel, an essential virulence determinant of Helicobacter pylori: Transport and trafficking pathways and their targeting by bismuth. Advances in Microbial Physiology, 2022, 80, 1-33.	2.4	7
2	A novel mode of control of nickel uptake by a multifunctional metallochaperone. PLoS Pathogens, 2021, 17, e1009193.	4.7	13
3	RNase R is associated in a functional complex with the RhpA DEAD-box RNA helicase inHelicobacter pylori. Nucleic Acids Research, 2021, 49, 5249-5264.	14.5	7
4	Riboregulation in the Major Gastric Pathogen Helicobacter pylori. Frontiers in Microbiology, 2021, 12, 712804.	3.5	5
5	Small RNA mediated gradual control of lipopolysaccharide biosynthesis affects antibiotic resistance in Helicobacter pylori. Nature Communications, 2021, 12, 4433.	12.8	14
6	Bacterial RNA Degradosomes: Molecular Machines under Tight Control. Trends in Biochemical Sciences, 2020, 45, 42-57.	7.5	42
7	USF1 defect drives p53 degradation during Helicobacter pylori infection and accelerates gastric carcinogenesis. Gut, 2020, 69, 1582-1591.	12.1	59
8	The RNase J-Based RNA Degradosome Is Compartmentalized in the Gastric Pathogen Helicobacter pylori. MBio, 2020, 11, .	4.1	11
9	Review: Pathogenesis of Helicobacter pylori infection. Helicobacter, 2020, 25, e12736.	3.5	40
10	A peptide of a type I toxinâ˜antitoxin system induces Helicobacter pylori morphological transformation from spiral shape to coccoids. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31398-31409.	7.1	24
11	Design, Synthesis, and Efficacy Testing of Nitroethylene- and 7-Nitrobenzoxadiazol-Based Flavodoxin Inhibitors against Helicobacter pylori Drug-Resistant Clinical Strains and in Helicobacter pylori-Infected Mice. Journal of Medicinal Chemistry, 2019, 62, 6102-6115.	6.4	23
12	DNA Hypermethylation Downregulates Telomerase Reverse Transcriptase (TERT) during H. pylori-Induced Chronic Inflammation. Journal of Oncology, 2019, 2019, 1-13.	1.3	4
13	The Sole DEAD-Box RNA Helicase of the Gastric Pathogen Helicobacter pylori Is Essential for Colonization. MBio, 2018, 9, .	4.1	13
14	Adaptation of Helicobacter pylori Metabolism to Persistent Gastric Colonization. , 2016, , 29-56.		3
15	RNase J depletion leads to massive changes in mRNA abundance inHelicobacter pylori. RNA Biology, 2016, 13, 243-253.	3.1	29
16	Characterization in Helicobacter pylori of a Nickel Transporter Essential for Colonization That Was Acquired during Evolution by Gastric Helicobacter Species. PLoS Pathogens, 2016, 12, e1006018.	4.7	50
17	Targeting of Helicobacter pylori thymidylate synthase ThyX by non-mitotoxic hydroxy-naphthoquinones. Open Biology, 2015, 5, 150015.	3.6	16
18	Evolution of Helicobacter: Acquisition by Gastric Species of Two Histidine-Rich Proteins Essential for Colonization. PLoS Pathogens, 2015, 11, e1005312.	4.7	40

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19	Nitrogen Metabolism. , 2014, , 125-133.		3
20	pH-Mediated Potentiation of Aminoglycosides Kills Bacterial Persisters and Eradicates In Vivo Biofilms. Journal of Infectious Diseases, 2014, 210, 1357-1366.	4.0	117
21	Promiscuous Nickel Import in Human Pathogens: Structure, Thermodynamics, and Evolution of Extracytoplasmic Nickel-Binding Proteins. Structure, 2014, 22, 1421-1432.	3.3	38
22	Circulating Mitochondrial DNA Level, a Noninvasive Biomarker for the Early Detection of Gastric Cancer. Cancer Epidemiology Biomarkers and Prevention, 2014, 23, 2430-2438.	2.5	34
23	A minimal bacterial RNase J-based degradosome is associated with translating ribosomes. Nucleic Acids Research, 2013, 41, 288-301.	14.5	48
24	Crosstalk between Helicobacter pylori and Gastric Epithelial Cells Is Impaired by Docosahexaenoic Acid. PLoS ONE, 2013, 8, e60657.	2.5	26
25	Common themes and unique proteins for the uptake and trafficking of nickel, a metal essential for the virulence of Helicobacter pylori. Frontiers in Cellular and Infection Microbiology, 2013, 3, 94.	3.9	61
26	The structure of the Helicobacter pylori ferric uptake regulator Fur reveals three functional metal binding sites. Molecular Microbiology, 2011, 79, 1260-1275.	2.5	109
27	Hierarchical regulation of the NikR-mediated nickel response in Helicobacter pylori. Nucleic Acids Research, 2011, 39, 7564-7575.	14.5	55
28	From array-based hybridization of Helicobacter pylori isolates to the complete genome sequence of an isolate associated with MALT lymphoma. BMC Genomics, 2010, 11, 368.	2.8	47
29	Study of the functionality of the Helicobacter pylori trans-translation components SmpB and SsrA in an heterologous system. BMC Microbiology, 2010, 10, 91.	3.3	6
30	The Helicobacter pylori GroES Cochaperonin HspA Functions as a Specialized Nickel Chaperone and Sequestration Protein through Its Unique C-Terminal Extension. Journal of Bacteriology, 2010, 192, 1231-1237.	2.2	63
31	Coupled Amino Acid Deamidase-Transport Systems Essential for Helicobacter pylori Colonization. Infection and Immunity, 2010, 78, 2782-2792.	2.2	44
32	Structural and mechanistic insights into Helicobacter pylori NikR activation. Nucleic Acids Research, 2010, 38, 3106-3118.	14.5	38
33	Vitamin B ₆ Is Required for Full Motility and Virulence in Helicobacter pylori. MBio, 2010, 1, .	4.1	38
34	New substrates for TonB-dependent transport: do we only see the â€˜tip of the icebergâ€™?. Trends in Biochemical Sciences, 2008, 33, 330-338.	7.5	323
35	Bridges and Chasms: Summary of the IMAGE 2 Meeting in Montreal, Canada, 30 April to 3 May 2007. Journal of Bacteriology, 2008, 190, 792-797.	2.2	1
36	In Vivo Interactome of Helicobacter pylori Urease Revealed by Tandem Affinity Purification. Molecular and Cellular Proteomics, 2008, 7, 2429-2441.	3.8	97

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37	Roles of Î± and Î² Carbonic Anhydrases of Helicobacter pylori in the Urease-Dependent Response to Acidity and in Colonization of the Murine Gastric Mucosa. Infection and Immunity, 2008, 76, 497-509.	2.2	71
38	Development of Inducible Systems To Engineer Conditional Mutants of Essential Genes of Helicobacter pylori. Applied and Environmental Microbiology, 2008, 74, 2095-2102.	3.1	58
39	Trans-Translation in Helicobacter pylori: Essentiality of Ribosome Rescue and Requirement of Protein Tagging for Stress Resistance and Competence. PLoS ONE, 2008, 3, e3810.	2.5	63
40	Oxygen requirement and tolerance of Campylobacter jejuni. Research in Microbiology, 2007, 158, 644-650.	2.1	51
41	Channel-mediated potassium uptake in Helicobacter pylori is essential for gastric colonization. EMBO Journal, 2007, 26, 232-241.	7.8	37
42	Novel nickel transport mechanism across the bacterial outer membrane energized by the TonB/ExbB/ExbD machinery. Molecular Microbiology, 2007, 63, 1054-1068.	2.5	161
43	Ten years after the firstHelicobacter pylorigenome: comparative and functional genomics provide new insights in the variability and adaptability of a persistent pathogen: Table 1. FEMS Immunology and Medical Microbiology, 2007, 50, 165-176.	2.7	26
44	Is Helicobacter pylori a True Microaerophile?. Helicobacter, 2006, 11, 296-303.	3.5	55
45	Staying alive overdosed: How does control urease activity?. International Journal of Medical Microbiology, 2005, 295, 307-315.	3.6	92
46	Responsiveness to acidity via metal ion regulators mediates virulence in the gastric pathogen Helicobacter pylori. Molecular Microbiology, 2004, 53, 623-638.	2.5	174
47	A revised annotation and comparative analysis of Helicobacter pylori genomes. Nucleic Acids Research, 2003, 31, 1704-1714.	14.5	74
48	Presence of Active Aliphatic Amidases in Helicobacter Species Able To Colonize the Stomach. Infection and Immunity, 2003, 71, 5613-5622.	2.2	64
49	A noncognate aminoacyl-tRNA synthetase that may resolve a missing link in protein evolution. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11297-11302.	7.1	69
50	ProtÃ©omique fonctionnelle bactÃ©rienne. Annales De L'Institut Pasteur / ActualitÃ©s, 2002, 11, 67-83.	0.1	0
51	The Yersinia pseudotuberculosis Yut protein, a new type of urea transporter homologous to eukaryotic channels and functionally interchangeable in vitro with the Helicobacter pylori UreI protein. Molecular Microbiology, 2002, 45, 1165-1174.	2.5	39
52	Genomics of Helicobacter pylori. Helicobacter, 2002, 7, 1-7.	3.5	23
53	The AmiE aliphatic amidase and AmiF formamidase of Helicobacter pylori: natural evolution of two enzyme paralogues. Molecular Microbiology, 2001, 40, 596-609.	2.5	72
54	Identification of the Helicobacter pylori anti-Ïƒ28 factor. Molecular Microbiology, 2001, 41, 477-487.	2.5	77

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55	The Helicobacter pylori UreI protein: role in adaptation to acidity and identification of residues essential for its activity and for acid activation. Molecular Microbiology, 2001, 42, 1021-1034.	2.5	84
56	The proteinâ€“protein interaction map of Helicobacter pylori. Nature, 2001, 409, 211-215.	27.8	1,078
57	The Helicobacter pylori UreI Protein Is Not Involved in Urease Activity but Is Essential for Bacterial Survival In Vivo. Infection and Immunity, 1998, 66, 4517-4521.	2.2	5
58	The Helicobacter pylori UreI Protein Is Not Involved in Urease Activity but Is Essential for Bacterial Survival In Vivo. Infection and Immunity, 1998, 66, 4517-4521.	2.2	169
59	The Helicobacter pylori ureC gene codes for a phosphoglucosamine mutase. Journal of Bacteriology, 1997, 179, 3488-3493.	2.2	87
60	RegF, an SspA homologue, regulates the expression of the Neisseria gonorrhoeae pilE gene. Research in Microbiology, 1997, 148, 289-303.	2.1	36
61	Identification and characterization of an aliphatic amidase in Helicobacter pylori. Molecular Microbiology, 1997, 25, 989-998.	2.5	98
62	Mutational analysis of the enzyme IIIGlc of the phosphoenolpyruvate phosphotransferase system in Escherichia coli. Research in Microbiology, 1992, 143, 251-261.	2.1	13
63	Positive regulation of the expression of the Escherichia coli pts operon. Journal of Molecular Biology, 1992, 226, 623-635.	4.2	43
64	Antisense expression at theptsH-ptsIlocus ofEscherichia coli. FEMS Microbiology Letters, 1989, 57, 35-38.	1.8	6
65	Analysis of the ptsH-ptsI-crr region in Escherichia coli K-12: nucleotide sequence of the ptsH gene. Gene, 1985, 35, 199-207.	2.2	55
66	Analysis of the ptsH-ptsI-crr region in Escherichia coli K-12: evidence for the existence of a single transcriptional unit. Gene, 1984, 32, 31-40.	2.2	26
67	CHAPTER 16. Nickel and Virulence in Bacterial Pathogens. 2-Oxoglutarate-Dependent Oxygenases, 0, , 339-356.	0.8	1