

Hilde De Reuse

List of Publications by Year in descending order

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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	The protein-protein interaction map of <i>Helicobacter pylori</i> . <i>Nature</i> , 2001, 409, 211-215.	27.8	1,078
2	New substrates for TonB-dependent transport: do we only see the "tip of the iceberg"? <i>Trends in Biochemical Sciences</i> , 2008, 33, 330-338.	7.5	323
3	Responsiveness to acidity via metal ion regulators mediates virulence in the gastric pathogen <i>Helicobacter pylori</i> . <i>Molecular Microbiology</i> , 2004, 53, 623-638.	2.5	174
4	The <i>Helicobacter pylori</i> Urel Protein Is Not Involved in Urease Activity but Is Essential for Bacterial Survival In Vivo. <i>Infection and Immunity</i> , 1998, 66, 4517-4521.	2.2	169
5	Novel nickel transport mechanism across the bacterial outer membrane energized by the TonB/ExbB/ExbD machinery. <i>Molecular Microbiology</i> , 2007, 63, 1054-1068.	2.5	161
6	pH-Mediated Potentiation of Aminoglycosides Kills Bacterial Persisters and Eradicates In Vivo Biofilms. <i>Journal of Infectious Diseases</i> , 2014, 210, 1357-1366.	4.0	117
7	The structure of the <i>Helicobacter pylori</i> ferric uptake regulator Fur reveals three functional metal binding sites. <i>Molecular Microbiology</i> , 2011, 79, 1260-1275.	2.5	109
8	Identification and characterization of an aliphatic amidase in <i>Helicobacter pylori</i> . <i>Molecular Microbiology</i> , 1997, 25, 989-998.	2.5	98
9	In Vivo Interactome of <i>Helicobacter pylori</i> Urease Revealed by Tandem Affinity Purification. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 2429-2441.	3.8	97
10	Staying alive overdosed: How does control urease activity?. <i>International Journal of Medical Microbiology</i> , 2005, 295, 307-315.	3.6	92
11	The <i>Helicobacter pylori</i> ureC gene codes for a phosphoglucosamine mutase. <i>Journal of Bacteriology</i> , 1997, 179, 3488-3493.	2.2	87
12	The <i>Helicobacter pylori</i> Urel protein: role in adaptation to acidity and identification of residues essential for its activity and for acid activation. <i>Molecular Microbiology</i> , 2001, 42, 1021-1034.	2.5	84
13	Identification of the <i>Helicobacter pylori</i> anti- β 28 factor. <i>Molecular Microbiology</i> , 2001, 41, 477-487.	2.5	77
14	A revised annotation and comparative analysis of <i>Helicobacter pylori</i> genomes. <i>Nucleic Acids Research</i> , 2003, 31, 1704-1714.	14.5	74
15	The AmiE aliphatic amidase and AmiF formamidase of <i>Helicobacter pylori</i> : natural evolution of two enzyme paralogues. <i>Molecular Microbiology</i> , 2001, 40, 596-609.	2.5	72
16	Roles of β and β^2 Carbonic Anhydrases of <i>Helicobacter pylori</i> in the Urease-Dependent Response to Acidity and in Colonization of the Murine Gastric Mucosa. <i>Infection and Immunity</i> , 2008, 76, 497-509.	2.2	71
17	A noncognate aminoacyl-tRNA synthetase that may resolve a missing link in protein evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11297-11302.	7.1	69
18	Presence of Active Aliphatic Amidases in <i>Helicobacter</i> Species Able To Colonize the Stomach. <i>Infection and Immunity</i> , 2003, 71, 5613-5622.	2.2	64

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19	The <i>Helicobacter pylori</i> GroES Cochaperonin HspA Functions as a Specialized Nickel Chaperone and Sequestration Protein through Its Unique C-Terminal Extension. <i>Journal of Bacteriology</i> , 2010, 192, 1231-1237.	2.2	63
20	Trans-Translation in <i>Helicobacter pylori</i> : Essentiality of Ribosome Rescue and Requirement of Protein Tagging for Stress Resistance and Competence. <i>PLoS ONE</i> , 2008, 3, e3810.	2.5	63
21	Common themes and unique proteins for the uptake and trafficking of nickel, a metal essential for the virulence of <i>Helicobacter pylori</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2013, 3, 94.	3.9	61
22	USF1 defect drives p53 degradation during <i>Helicobacter pylori</i> infection and accelerates gastric carcinogenesis. <i>Gut</i> , 2020, 69, 1582-1591.	12.1	59
23	Development of Inducible Systems To Engineer Conditional Mutants of Essential Genes of <i>Helicobacter pylori</i> . <i>Applied and Environmental Microbiology</i> , 2008, 74, 2095-2102.	3.1	58
24	Analysis of the ptsH-ptsI-crr region in <i>Escherichia coli</i> K-12: nucleotide sequence of the ptsH gene. <i>Gene</i> , 1985, 35, 199-207.	2.2	55
25	Is <i>Helicobacter pylori</i> a True Microaerophile?. <i>Helicobacter</i> , 2006, 11, 296-303.	3.5	55
26	Hierarchical regulation of the NikR-mediated nickel response in <i>Helicobacter pylori</i> . <i>Nucleic Acids Research</i> , 2011, 39, 7564-7575.	14.5	55
27	Oxygen requirement and tolerance of <i>Campylobacter jejuni</i> . <i>Research in Microbiology</i> , 2007, 158, 644-650.	2.1	51
28	Characterization in <i>Helicobacter pylori</i> of a Nickel Transporter Essential for Colonization That Was Acquired during Evolution by Gastric <i>Helicobacter</i> Species. <i>PLoS Pathogens</i> , 2016, 12, e1006018.	4.7	50
29	A minimal bacterial RNase J-based degradosome is associated with translating ribosomes. <i>Nucleic Acids Research</i> , 2013, 41, 288-301.	14.5	48
30	From array-based hybridization of <i>Helicobacter pylori</i> isolates to the complete genome sequence of an isolate associated with MALT lymphoma. <i>BMC Genomics</i> , 2010, 11, 368.	2.8	47
31	Coupled Amino Acid Deamidase-Transport Systems Essential for <i>Helicobacter pylori</i> Colonization. <i>Infection and Immunity</i> , 2010, 78, 2782-2792.	2.2	44
32	Positive regulation of the expression of the <i>Escherichia coli</i> pts operon. <i>Journal of Molecular Biology</i> , 1992, 226, 623-635.	4.2	43
33	Bacterial RNA Degradosomes: Molecular Machines under Tight Control. <i>Trends in Biochemical Sciences</i> , 2020, 45, 42-57.	7.5	42
34	Review: Pathogenesis of <i>Helicobacter pylori</i> infection. <i>Helicobacter</i> , 2020, 25, e12736.	3.5	40
35	Evolution of <i>Helicobacter</i> : Acquisition by Gastric Species of Two Histidine-Rich Proteins Essential for Colonization. <i>PLoS Pathogens</i> , 2015, 11, e1005312.	4.7	40
36	The <i>Yersinia pseudotuberculosis</i> Yut protein, a new type of urea transporter homologous to eukaryotic channels and functionally interchangeable in vitro with the <i>Helicobacter pylori</i> Urel protein. <i>Molecular Microbiology</i> , 2002, 45, 1165-1174.	2.5	39

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37	Structural and mechanistic insights into <i>Helicobacter pylori</i> NikR activation. <i>Nucleic Acids Research</i> , 2010, 38, 3106-3118.	14.5	38
38	Vitamin B ₆ Is Required for Full Motility and Virulence in <i>Helicobacter pylori</i> . <i>MBio</i> , 2010, 1, .	4.1	38
39	Promiscuous Nickel Import in Human Pathogens: Structure, Thermodynamics, and Evolution of Extracytoplasmic Nickel-Binding Proteins. <i>Structure</i> , 2014, 22, 1421-1432.	3.3	38
40	Channel-mediated potassium uptake in <i>Helicobacter pylori</i> is essential for gastric colonization. <i>EMBO Journal</i> , 2007, 26, 232-241.	7.8	37
41	RegF, an SspA homologue, regulates the expression of the <i>Neisseria gonorrhoeae</i> pilE gene. <i>Research in Microbiology</i> , 1997, 148, 289-303.	2.1	36
42	Circulating Mitochondrial DNA Level, a Noninvasive Biomarker for the Early Detection of Gastric Cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2014, 23, 2430-2438.	2.5	34
43	RNase J depletion leads to massive changes in mRNA abundance in <i>Helicobacter pylori</i> . <i>RNA Biology</i> , 2016, 13, 243-253.	3.1	29
44	Analysis of the ptsH-ptsI-crr region in <i>Escherichia coli</i> K-12: evidence for the existence of a single transcriptional unit. <i>Gene</i> , 1984, 32, 31-40.	2.2	26
45	Ten years after the first <i>Helicobacter pylori</i> genome: comparative and functional genomics provide new insights in the variability and adaptability of a persistent pathogen: Table 1. <i>FEMS Immunology and Medical Microbiology</i> , 2007, 50, 165-176.	2.7	26
46	Crosstalk between <i>Helicobacter pylori</i> and Gastric Epithelial Cells Is Impaired by Docosahexaenoic Acid. <i>PLoS ONE</i> , 2013, 8, e60657.	2.5	26
47	A peptide of a type I toxin-antitoxin system induces <i>Helicobacter pylori</i> morphological transformation from spiral shape to coccoids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31398-31409.	7.1	24
48	Genomics of <i>Helicobacter pylori</i> . <i>Helicobacter</i> , 2002, 7, 1-7.	3.5	23
49	Design, Synthesis, and Efficacy Testing of Nitroethylene- and 7-Nitrobenzoxadiazol-Based Flavodoxin Inhibitors against <i>Helicobacter pylori</i> Drug-Resistant Clinical Strains and in <i>Helicobacter pylori</i> -Infected Mice. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 6102-6115.	6.4	23
50	Targeting of <i>Helicobacter pylori</i> thymidylate synthase ThyX by non-mitotoxic hydroxy-naphthoquinones. <i>Open Biology</i> , 2015, 5, 150015.	3.6	16
51	Small RNA mediated gradual control of lipopolysaccharide biosynthesis affects antibiotic resistance in <i>Helicobacter pylori</i> . <i>Nature Communications</i> , 2021, 12, 4433.	12.8	14
52	Mutational analysis of the enzyme III _{Glc} of the phosphoenolpyruvate phosphotransferase system in <i>Escherichia coli</i> . <i>Research in Microbiology</i> , 1992, 143, 251-261.	2.1	13
53	The Sole DEAD-Box RNA Helicase of the Gastric Pathogen <i>Helicobacter pylori</i> Is Essential for Colonization. <i>MBio</i> , 2018, 9, .	4.1	13
54	A novel mode of control of nickel uptake by a multifunctional metallochaperone. <i>PLoS Pathogens</i> , 2021, 17, e1009193.	4.7	13

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55	The RNase J-Based RNA Degradosome Is Compartmentalized in the Gastric Pathogen <i>Helicobacter pylori</i> . <i>MBio</i> , 2020, 11, .	4.1	11
56	RNase R is associated in a functional complex with the RhpA DEAD-box RNA helicase in <i>Helicobacter pylori</i> . <i>Nucleic Acids Research</i> , 2021, 49, 5249-5264.	14.5	7
57	Nickel, an essential virulence determinant of <i>Helicobacter pylori</i> : Transport and trafficking pathways and their targeting by bismuth. <i>Advances in Microbial Physiology</i> , 2022, 80, 1-33.	2.4	7
58	Antisense expression at the <i>ptsI</i> locus of <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 1989, 57, 35-38.	1.8	6
59	Study of the functionality of the <i>Helicobacter pylori</i> trans-translation components SmpB and SsrA in an heterologous system. <i>BMC Microbiology</i> , 2010, 10, 91.	3.3	6
60	Riboregulation in the Major Gastric Pathogen <i>Helicobacter pylori</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 712804.	3.5	5
61	The <i>Helicobacter pylori</i> Urel Protein Is Not Involved in Urease Activity but Is Essential for Bacterial Survival In Vivo. <i>Infection and Immunity</i> , 1998, 66, 4517-4521.	2.2	5
62	DNA Hypermethylation Downregulates Telomerase Reverse Transcriptase (TERT) during <i>H. pylori</i> -Induced Chronic Inflammation. <i>Journal of Oncology</i> , 2019, 2019, 1-13.	1.3	4
63	Nitrogen Metabolism. , 2014, , 125-133.		3
64	Adaptation of <i>Helicobacter pylori</i> Metabolism to Persistent Gastric Colonization. , 2016, , 29-56.		3
65	Bridges and Chasms: Summary of the IMAGE 2 Meeting in Montreal, Canada, 30 April to 3 May 2007. <i>Journal of Bacteriology</i> , 2008, 190, 792-797.	2.2	1
66	CHAPTER 16. Nickel and Virulence in Bacterial Pathogens. 2-Oxoglutarate-Dependent Oxygenases, 0, , 339-356.	0.8	1
67	Protéomique fonctionnelle bactérienne. <i>Annales De L'Institut Pasteur / Actualités</i> , 2002, 11, 67-83.	0.1	0