

# Dietrich H Nies

## List of Publications by Year in descending order

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102  
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times ranked

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#	ARTICLE	IF	CITATIONS
1	Loss of Mobile Genomic Islands in Metal-Resistant, Hydrogen-Oxidizing <i>Cupriavidus metallidurans</i> . <i>Applied and Environmental Microbiology</i> , 2022, 88, AEM0204821.	3.1	3
2	Importance of RpoD- and Non-RpoD-Dependent Expression of Horizontally Acquired Genes in <i>Cupriavidus metallidurans</i> . <i>Microbiology Spectrum</i> , 2022, 10, e0012122.	3.0	3
3	How is a Zinc Ion Correctly Allocated to a Zinc-dependent Protein?. <i>Advances in Environmental Microbiology</i> , 2022, , 579-660.	0.3	1
4	Chemical Constraints for Transition Metal Cation Allocation. <i>Advances in Environmental Microbiology</i> , 2022, , 21-52.	0.3	1
5	Behind the Shield of Czc: ZntR Controls Expression of the Gene for the Zinc-Exporting P-Type ATPase ZntA in <i>Cupriavidus metallidurans</i> . <i>Journal of Bacteriology</i> , 2021, 203, .	2.2	13
6	Mutant Strains of <i>Escherichia coli</i> and Methicillin-Resistant <i>Staphylococcus aureus</i> Obtained by Laboratory Selection To Survive on Metallic Copper Surfaces. <i>Applied and Environmental Microbiology</i> , 2020, 87, .	3.1	4
7	A copper site is required for iron transport by the periplasmic proteins P19 and FetP. <i>Metallomics</i> , 2020, 12, 1530-1541.	2.4	5
8	The third pillar of metal homeostasis in <i>Cupriavidus metallidurans</i> CH34: preferences are controlled by extracytoplasmic function sigma factors. <i>Metallomics</i> , 2019, 11, 291-316.	2.4	13
9	Interplay between the Zur Regulon Components and Metal Resistance in <i>Cupriavidus metallidurans</i> . <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	9
10	The ancient alarmone ZTP and zinc homeostasis in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2019, 112, 741-746.	2.5	8
11	Synergistic gold-“copper detoxification at the core of gold biomineralisation in <i>Cupriavidus metallidurans</i> . <i>Metallomics</i> , 2018, 10, 278-286.	2.4	33
12	Synergistic Toxicity of Copper and Gold Compounds in <i>Cupriavidus metallidurans</i> . <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	33
13	The Components of the Unique Zur Regulon of <i>Cupriavidus metallidurans</i> Mediate Cytoplasmic Zinc Handling. <i>Journal of Bacteriology</i> , 2017, 199, .	2.2	16
14	Characterization of the $\Delta$ 7 Mutant of <i>Cupriavidus metallidurans</i> with Deletions of Seven Secondary Metal Uptake Systems. <i>MSystems</i> , 2016, 1, .	3.8	24
15	Proteomic responses to gold(III)-toxicity in the bacterium <i>Cupriavidus metallidurans</i> CH34. <i>Metallomics</i> , 2016, 8, 1204-1216.	2.4	42
16	The biological chemistry of the transition metal “transportome” of <i>Cupriavidus metallidurans</i> . <i>Metallomics</i> , 2016, 8, 481-507.	2.4	75
17	Interplay between seven secondary metal uptake systems is required for full metal resistance of <i>Cupriavidus metallidurans</i> . <i>Metallomics</i> , 2016, 8, 313-326.	2.4	29
18	Response of CnrX from <i>Cupriavidus metallidurans</i> CH34 to nickel binding. <i>Metallomics</i> , 2015, 7, 622-631.	2.4	16

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19	Synthesis of nickel-iron hydrogenase in <i>Cupriavidus metallidurans</i> is controlled by metal-dependent silencing and un-silencing of genomic islands. <i>Metallomics</i> , 2015, 7, 632-649.	2.4	24
20	Genomic analyses of metal resistance genes in three plant growth promoting bacteria of legume plants in Northwest mine tailings, China. <i>Journal of Environmental Sciences</i> , 2015, 27, 179-187.	6.1	37
21	Basic Biochemical Roots. , 2014, , 1-13.		0
22	Zinc and ATP Binding of the Hexameric AAA-ATPase PilF from <i>Thermus thermophilus</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 30343-30354.	3.4	22
23	The zinc repository of <i>Cupriavidus metallidurans</i> . <i>Metallomics</i> , 2014, 6, 2157-2165.	2.4	22
24	Deletion of the <i>zupT</i> gene for a zinc importer influences zinc pools in <i>Cupriavidus metallidurans</i> CH34. <i>Metallomics</i> , 2014, 6, 421.	2.4	31
25	Metal sensing and signal transduction by CnrX from <i>Cupriavidus metallidurans</i> CH34: role of the only methionine assessed by a functional, spectroscopic, and theoretical study. <i>Metallomics</i> , 2014, 6, 263-273.	2.4	21
26	Survival of <i>Escherichia coli</i> Cells on Solid Copper Surfaces Is Increased by Glutathione. <i>Applied and Environmental Microbiology</i> , 2014, 80, 7071-7078.	3.1	25
27	FurC Regulates Expression of <i>zupT</i> for the Central Zinc Importer ZupT of <i>Cupriavidus metallidurans</i> . <i>Journal of Bacteriology</i> , 2014, 196, 3461-3471.	2.2	20
28	Influence of Copper Resistance Determinants on Gold Transformation by <i>Cupriavidus metallidurans</i> Strain CH34. <i>Journal of Bacteriology</i> , 2013, 195, 2298-2308.	2.2	66
29	Geobiological Cycling of Gold: From Fundamental Process Understanding to Exploration Solutions. <i>Minerals (Basel, Switzerland)</i> , 2013, 3, 367-394.	2.0	54
30	A fresh view of the cell biology of copper in enterobacteria. <i>Molecular Microbiology</i> , 2013, 87, 447-454.	2.5	43
31	Impact of metal ion homeostasis of genetically modified <i>Escherichia coli</i> Nissle 1917 and K12 (W3110) strains on colonization properties in the murine intestinal tract. <i>European Journal of Microbiology and Immunology</i> , 2013, 3, 229-235.	2.8	2
32	Colonization resistance against genetically modified <i>Escherichia coli</i> K12 (W3110) strains is abrogated following broad-spectrum antibiotic treatment and acute ileitis. <i>European Journal of Microbiology and Immunology</i> , 2013, 3, 222-228.	2.8	4
33	Zinc Starvation Response in a Cyanobacterium Revealed. <i>Journal of Bacteriology</i> , 2012, 194, 2407-2412.	2.2	11
34	Switch or Funnel: How RND-Type Transport Systems Control Periplasmic Metal Homeostasis. <i>Journal of Bacteriology</i> , 2011, 193, 2381-2387.	2.2	139
35	How iron is transported into magnetosomes. <i>Molecular Microbiology</i> , 2011, 82, 792-796.	2.5	13
36	Characterization of a Dipartite Iron Uptake System from Uropathogenic <i>Escherichia coli</i> Strain F11. <i>Journal of Biological Chemistry</i> , 2011, 286, 25317-25330.	3.4	34

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37	Contributions of Five Secondary Metal Uptake Systems to Metal Homeostasis of <i>Cupriavidus metallidurans</i> CH34. <i>Journal of Bacteriology</i> , 2011, 193, 4652-4663.	2.2	58
38	Preparation, physicochemical characterization and biological evaluation of cefodizime metal ion complexes. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 61, 753-758.	2.4	7
39	Survival of bacteria on metallic copper surfaces in a hospital trial. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 1875-1879.	3.6	160
40	<i>Cupriavidus metallidurans</i> : evolution of a metal-resistant bacterium. <i>Antonie Van Leeuwenhoek</i> , 2009, 96, 115-139.	1.7	155
41	The ABC-transporter AtmA is involved in nickel and cobalt resistance of <i>Cupriavidus metallidurans</i> strain CH34. <i>Antonie Van Leeuwenhoek</i> , 2009, 96, 183-191.	1.7	25
42	CzcP is a novel efflux system contributing to transition metal resistance in <i>Cupriavidus metallidurans</i> CH34. <i>Molecular Microbiology</i> , 2009, 73, 601-621.	2.5	99
43	Mechanisms of gold biomineralization in the bacterium <i>Cupriavidus metallidurans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17757-17762.	7.1	283
44	Transition Metal Homeostasis. <i>EcoSal Plus</i> , 2009, 3, .	5.4	20
45	Genomic analysis of zinc homeostasis in <i>Mycobacterium tuberculosis</i> . <i>FEMS Microbiology Letters</i> , 2008, 287, 1-7.	1.8	37
46	Glutathione and Transition-Metal Homeostasis in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2008, 190, 5431-5438.	2.2	186
47	Cadmium Toxicity in Glutathione Mutants of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2008, 190, 5439-5454.	2.2	104
48	Sandwich Hybridization Assay for Sensitive Detection of Dynamic Changes in mRNA Transcript Levels in Crude <i>Escherichia coli</i> Cell Extracts in Response to Copper Ions. <i>Applied and Environmental Microbiology</i> , 2008, 74, 7463-7470.	3.1	28
49	Contribution of Copper Ion Resistance to Survival of <i>Escherichia coli</i> on Metallic Copper Surfaces. <i>Applied and Environmental Microbiology</i> , 2008, 74, 977-986.	3.1	253
50	High-Level Resistance to Cobalt and Nickel in Cuban <i>Serratia marcescens</i> Strains Isolated from Serpentine Deposits. <i>Advanced Materials Research</i> , 2007, 20-21, 521-525.	0.3	1
51	Bacterial Transition Metal Homeostasis. , 2007, , 117-142.		39
52	Contribution of Extracytoplasmic Function Sigma Factors to Transition Metal Homeostasis in <i>Cupriavidus metallidurans</i> Strain CH34. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2007, 12, 227-240.	1.0	53
53	How Cells Control Zinc Homeostasis. <i>Science</i> , 2007, 317, 1695-1696.	12.6	80
54	Oligomeric behavior of the RND transporters CusA and AcrB in micellar solution of detergent. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 1567-1573.	2.6	14

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55	High-Level Resistance to Cobalt and Nickel but Probably No Transenvelope Efflux: Metal Resistance in the Cuban <i>Serratia marcescens</i> Strain C-1. <i>Microbial Ecology</i> , 2007, 53, 123-133.	2.8	27
56	The RcnRA (YohLM) system of <i>Escherichia coli</i> : A connection between nickel, cobalt and iron homeostasis. <i>BioMetals</i> , 2007, 20, 759-771.	4.1	60
57	Paralogs of Genes Encoding Metal Resistance Proteins in <i>Cupriavidus metallidurans</i> Strain CH34. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2006, 11, 82-93.	1.0	52
58	Genomic Analyses of Transport Proteins in <i>Ralstonia metallidurans</i> . <i>Comparative and Functional Genomics</i> , 2005, 6, 17-56.	2.0	30
59	FieF (YiiP) from <i>Escherichia coli</i> mediates decreased cellular accumulation of iron and relieves iron stress. <i>Archives of Microbiology</i> , 2005, 183, 9-18.	2.2	205
60	Control of Expression of a Periplasmic Nickel Efflux Pump by Periplasmic Nickel Concentrations. <i>BioMetals</i> , 2005, 18, 437-448.	4.1	57
61	Role of the Extracytoplasmic Function Protein Family Sigma Factor RpoE in Metal Resistance of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2005, 187, 2297-2307.	2.2	111
62	TolC Is Involved in Enterobactin Efflux across the Outer Membrane of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2005, 187, 6701-6707.	2.2	140
63	The Metal Permease ZupT from <i>Escherichia coli</i> Is a Transporter with a Broad Substrate Spectrum. <i>Journal of Bacteriology</i> , 2005, 187, 1604-1611.	2.2	196
64	Insights into Genome Plasticity and Pathogenicity of the Plant Pathogenic Bacterium <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> Revealed by the Complete Genome Sequence. <i>Journal of Bacteriology</i> , 2005, 187, 7254-7266.	2.2	321
65	Characteristics of Zinc Transport by Two Bacterial Cation Diffusion Facilitators from <i>Ralstonia metallidurans</i> CH34 and <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2004, 186, 7499-7507.	2.2	119
66	The Chromosomally Encoded Cation Diffusion Facilitator Proteins DmeF and FieF from <i>Wautersia metallidurans</i> CH34 Are Transporters of Broad Metal Specificity. <i>Journal of Bacteriology</i> , 2004, 186, 8036-8043.	2.2	121
67	Incidence and function of sigma factors in <i>Ralstonia metallidurans</i> and other bacteria. <i>Archives of Microbiology</i> , 2004, 181, 255-268.	2.2	44
68	Identification of a regulatory pathway that controls the heavy-metal resistance system Czc via promoter <i>czcNp</i> in <i>Ralstonia metallidurans</i> . <i>Archives of Microbiology</i> , 2004, 182, 109-18.	2.2	58
69	First step towards a quantitative model describing Czc-mediated heavy metal resistance in <i>Ralstonia metallidurans</i> . <i>Biodegradation</i> , 2003, 14, 153-168.	3.0	51
70	Efflux-mediated heavy metal resistance in prokaryotes. <i>FEMS Microbiology Reviews</i> , 2003, 27, 313-339.	8.6	1,214
71	Molecular Analysis of the Copper-Transporting Efflux System CusCFBA of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2003, 185, 3804-3812.	2.2	462
72	Interplay of the Czc System and Two P-Type ATPases in Conferring Metal Resistance to <i>Ralstonia metallidurans</i> . <i>Journal of Bacteriology</i> , 2003, 185, 4354-4361.	2.2	117

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73	A Transporter in the Endoplasmic Reticulum of <i>Schizosaccharomyces pombe</i> Cells Mediates Zinc Storage and Differentially Affects Transition Metal Tolerance. <i>Journal of Biological Chemistry</i> , 2002, 277, 18215-18221.	3.4	90
74	New genes involved in chromate resistance in <i>Ralstonia metallidurans</i> strain CH34. <i>Archives of Microbiology</i> , 2002, 179, 15-25.	2.2	114
75	Characterization of the ZAT1p zinc transporter from <i>Arabidopsis thaliana</i> in microbial model organisms and reconstituted proteoliposomes. <i>Planta</i> , 2002, 214, 783-791.	3.2	97
76	Functional analysis of the <i>Escherichia coli</i> zinc transporter ZitB. <i>FEMS Microbiology Letters</i> , 2002, 215, 273-278.	1.8	63
77	ZitB (YbgR), a Member of the Cation Diffusion Facilitator Family, Is an Additional Zinc Transporter in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2001, 183, 4664-4667.	2.2	154
78	The product of the <i>ybdE</i> gene of the <i>Escherichia coli</i> chromosome is involved in detoxification of silver ions. <i>Microbiology (United Kingdom)</i> , 2001, 147, 965-972.	1.8	177
79	Heavy metal-resistant bacteria as extremophiles: molecular physiology and biotechnological use of <i>Ralstonia</i> sp. CH34. <i>Extremophiles</i> , 2000, 4, 77-82.	2.3	146
80	Regulation of the <i>cnr</i> Cobalt and Nickel Resistance Determinant from <i>Ralstonia</i> sp. Strain CH34. <i>Journal of Bacteriology</i> , 2000, 182, 1390-1398.	2.2	126
81	CzcD Is a Heavy Metal Ion Transporter Involved in Regulation of Heavy Metal Resistance in <i>Ralstonia</i> sp. Strain CH34. <i>Journal of Bacteriology</i> , 1999, 181, 6876-6881.	2.2	205
82	Energetics and Topology of CzcA, a Cation/Proton Antiporter of the Resistance-Nodulation-Cell Division Protein Family. <i>Journal of Biological Chemistry</i> , 1999, 274, 26065-26070.	3.4	174
83	Microbial heavy-metal resistance. <i>Applied Microbiology and Biotechnology</i> , 1999, 51, 730-750.	3.6	2,035
84	Transcriptional Organization of the <i>czc</i> Heavy-Metal Homeostasis Determinant from <i>Alcaligenes eutrophus</i> . <i>Journal of Bacteriology</i> , 1999, 181, 2385-2393.	2.2	97
85	The RND permease superfamily: an ancient, ubiquitous and diverse family that includes human disease and development proteins. <i>Journal of Molecular Microbiology and Biotechnology</i> , 1999, 1, 107-25.	1.0	337
86	<i>Alcaligenes eutrophus</i> as a Bacterial Chromate Sensor. <i>Applied and Environmental Microbiology</i> , 1998, 64, 453-458.	3.1	107
87	Two-Component Systems in the Regulation of Heavy Metal Resistance. , 1998, , 77-103.		37
88	CHR, a Novel Family of Prokaryotic Proton Motive Force-Driven Transporters Probably Containing Chromate/Sulfate Antiporters. <i>Journal of Bacteriology</i> , 1998, 180, 5799-5802.	2.2	90
89	New functions for the three subunits of the CzcCBA cation-proton antiporter. <i>Journal of Bacteriology</i> , 1997, 179, 6871-6879.	2.2	117
90	Two-component regulatory system involved in transcriptional control of heavy-metal homeostasis in <i>Alcaligenes eutrophus</i> . <i>Molecular Microbiology</i> , 1997, 23, 493-503.	2.5	102

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91	The cobalt, zinc, and cadmium efflux system CzcABC from <i>Alcaligenes eutrophus</i> functions as a cation-proton antiporter in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1995, 177, 2707-2712.	2.2	267
92	Ion efflux systems involved in bacterial metal resistances. <i>Journal of Industrial Microbiology</i> , 1995, 14, 186-199.	0.9	462
93	Expression of bacterial mercuric ion reductase in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bacteriology</i> , 1992, 174, 1288-1292.	2.2	11
94	CzcR and CzcD, gene products affecting regulation of resistance to cobalt, zinc, and cadmium (czc) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.2	184
95	Determinants Encoding Resistance to Several Heavy Metals in Newly Isolated Copper-Resistant Bacteria. <i>Applied and Environmental Microbiology</i> , 1991, 57, 3079-3085.	3.1	62
96	Nucleotide sequence and expression of a plasmid-encoded chromate resistance determinant from <i>Alcaligenes eutrophus</i> .. <i>Journal of Biological Chemistry</i> , 1990, 265, 5648-5653.	3.4	146
97	Nucleotide sequence and expression of a plasmid-encoded chromate resistance determinant from <i>Alcaligenes eutrophus</i> . <i>Journal of Biological Chemistry</i> , 1990, 265, 5648-53.	3.4	132
98	Expression and nucleotide sequence of a plasmid-determined divalent cation efflux system from <i>Alcaligenes eutrophus</i> .. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 7351-7355.	7.1	271
99	Metal ion uptake by a plasmid-free metal-sensitive <i>Alcaligenes eutrophus</i> strain. <i>Journal of Bacteriology</i> , 1989, 171, 4073-4075.	2.2	92
100	Cloning and expression of plasmid genes encoding resistances to chromate and cobalt in <i>Alcaligenes eutrophus</i> . <i>Journal of Bacteriology</i> , 1989, 171, 5065-5070.	2.2	128
101	Plasmid-determined inducible efflux is responsible for resistance to cadmium, zinc, and cobalt in <i>Alcaligenes eutrophus</i> . <i>Journal of Bacteriology</i> , 1989, 171, 896-900.	2.2	196
102	CHAPTER 15. Cross-Talk Between Nickel and Other Metals in Microbial Systems. 2-Oxoglutarate-Dependent Oxygenases, 0, , 306-338.	0.8	2