Friedrich GÃ¶tz

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3373362/publications.pdf

Version: 2024-02-01

117 papers	8,812 citations	61945 43 h-index	46771 89 g-index
119 all docs	119 docs citations	119 times ranked	7759 citing authors

#	Article	IF	Citations
1	Staphylococcus and biofilms. Molecular Microbiology, 2002, 43, 1367-1378.	1.2	1,048
2	Molecular basis of intercellular adhesion in the biofilm-forming Staphylococcus epidermidis. Molecular Microbiology, 1996, 20, 1083-1091.	1.2	899
3	Evidence for autolysinâ€mediated primary attachment of Staphylococcus epidermidis to a polystyrene surface. Molecular Microbiology, 1997, 24, 1013-1024.	1.2	651
4	Characterization of theN-Acetylglucosaminyltransferase Activity Involved in the Biosynthesis of the Staphylococcus epidermidisPolysaccharide Intercellular Adhesin. Journal of Biological Chemistry, 1998, 273, 18586-18593.	1.6	415
5	Why are pathogenic staphylococci so lysozyme resistant? The peptidoglycan O-acetyltransferase OatA is the major determinant for lysozyme resistance of Staphylococcus aureus. Molecular Microbiology, 2004, 55, 778-787.	1.2	402
6	Repair of Global Regulators in<i>Staphylococcus aureus</i>8325 and Comparative Analysis with Other Clinical Isolates. Infection and Immunity, 2010, 78, 2877-2889.	1.0	340
7	Activity of the major staphylococcal autolysin Atl. FEMS Microbiology Letters, 2006, 259, 260-268.	0.7	251
8	Staphylococcus aureus Evades Lysozyme-Based Peptidoglycan Digestion that Links Phagocytosis, Inflammasome Activation, and IL-1Î² Secretion. Cell Host and Microbe, 2010, 7, 38-49.	5.1	239
9	Role of staphylococcal wall teichoic acid in targeting the major autolysin Atl. Molecular Microbiology, 2010, 75, 864-873.	1.2	232
10	Staphylococcus aureus Deficient in Lipidation of Prelipoproteins Is Attenuated in Growth and Immune Activation. Infection and Immunity, 2005, 73, 2411-2423.	1.0	195
11	Lipoproteins of Gram-Positive Bacteria: Key Players in the Immune Response and Virulence. Microbiology and Molecular Biology Reviews, 2016, 80, 891-903.	2.9	146
12	The Presence of Peptidoglycan O-Acetyltransferase in Various Staphylococcal Species Correlates with Lysozyme Resistance and Pathogenicity. Infection and Immunity, 2006, 74, 4598-4604.	1.0	138
13	Genome Analysis of the Meat Starter Culture Bacterium<i>Staphylococcus carnosus</i>TM300. Applied and Environmental Microbiology, 2009, 75, 811-822.	1.4	134
14	A novel staphylococcal internalization mechanism involves the major autolysin Atl and heat shock cognate protein Hsc70 as host cell receptor. Cellular Microbiology, 2010, 12, 1746-1764.	1.1	133
15	Staphylococcal Major Autolysin (Atl) Is Involved in Excretion of Cytoplasmic Proteins. Journal of Biological Chemistry, 2010, 285, 36794-36803.	1.6	105
16	In vivo immobilization of enzymatically active polypeptides on the cell surface of Staphylococcus carnosus. Molecular Microbiology, 1996, 21, 491-500.	1.2	98
17	Peptidoglycan Recycling in Gram-Positive Bacteria Is Crucial for Survival in Stationary Phase. MBio, 2016, 7, .	1.8	89
18	Epidermin and gallidermin: Staphylococcal lantibiotics. International Journal of Medical Microbiology, 2014, 304, 63-71.	1.5	87

#	Article	IF	Citations
19	Toll-like receptor 2 activation depends on lipopeptide shedding by bacterial surfactants. Nature Communications, 2016, 7, 12304.	5.8	86
20	Lipoproteins in <i>Staphylococcus aureus</i> Mediate Inflammation by TLR2 and Iron-Dependent Growth In Vivo. Journal of Immunology, 2009, 182, 7110-7118.	0.4	81
21	Structural Basis of Cell Wall Cleavage by a Staphylococcal Autolysin. PLoS Pathogens, 2010, 6, e1000807.	2.1	78
22	Evaluation of Staphylococcus aureus Lipoproteins: Role in Nutritional Acquisition and Pathogenicity. Frontiers in Microbiology, 2016, 7, 1404.	1.5	75
23	Dual Targeting of Cell Wall Precursors by Teixobactin Leads to Cell Lysis. Antimicrobial Agents and Chemotherapy, 2016, 60, 6510-6517.	1.4	74
24	SadA-Expressing Staphylococci in the Human Gut Show Increased Cell Adherence and Internalization. Cell Reports, 2018, 22, 535-545.	2.9	74
25	Lugdunin amplifies innate immune responses in the skin in synergy with host- and microbiota-derived factors. Nature Communications, 2019, 10, 2730.	5.8	74
26	The Î½SaÎ± Specific Lipoprotein Like Cluster (lpl) of S. aureus USA300 Contributes to Immune Stimulation and Invasion in Human Cells. PLoS Pathogens, 2015, 11, e1004984.	2.1	73
27	Ligand-Binding Properties and Conformational Dynamics of Autolysin Repeat Domains in Staphylococcal Cell Wall Recognition. Journal of Bacteriology, 2012, 194, 3789-3802.	1.0	72
28	Non-classical Protein Excretion Is Boosted by PSMÎ±-Induced Cell Leakage. Cell Reports, 2017, 20, 1278-1286.	2.9	68
29	Staphylococci in colonization and disease: prospective targets for drugs and vaccines. Current Opinion in Microbiology, 2004, 7, 477-487.	2.3	66
30	Bacterial Excretion of Cytoplasmic Proteins (ECP): Occurrence, Mechanism, and Function. Trends in Microbiology, 2019, 27, 176-187.	3.5	63
31	Understanding the Structureâ€"Function Relationship of Lysozyme Resistance in <i>Staphylococcus aureus</i> by Peptidoglycan O-Acetylation Using Molecular Docking, Dynamics, and Lysis Assay. Journal of Chemical Information and Modeling, 2015, 55, 760-770.	2.5	62
32	Skin-Specific Unsaturated Fatty Acids Boost the Staphylococcus aureus Innate Immune Response. Infection and Immunity, 2016, 84, 205-215.	1.0	61
33	Excreted Cytoplasmic Proteins Contribute to Pathogenicity in Staphylococcus aureus. Infection and Immunity, 2016, 84, 1672-1681.	1.0	60
34	Excretion of cytoplasmic proteins (<scp>ECP</scp>) in <scp><i>S</i></scp><i>taphylococcus aureus</i>. Molecular Microbiology, 2015, 97, 775-789.	1.2	57
35	Protoplast transformation of Staphylococcus carnosus by plasmid DNA. Molecular Genetics and Genomics, 1983, 189, 340-342.	2.4	56
36	Excretion of cytosolic proteins (ECP) in bacteria. International Journal of Medical Microbiology, 2015, 305, 230-237.	1.5	56

#	Article	IF	Citations
37	Lipid moieties on lipoproteins of commensal and non-commensal staphylococci induce differential immune responses. Nature Communications, 2017, 8, 2246.	5.8	56
38	A Secreted Bacterial Peptidylarginine Deiminase Can Neutralize Human Innate Immune Defenses. MBio, 2018, 9, .	1.8	55
39	Staphylococcus epidermidis SrrAB Regulates Bacterial Growth and Biofilm Formation Differently under Oxic and Microaerobic Conditions. Journal of Bacteriology, 2015, 197, 459-476.	1.0	52
40	What Distinguishes Highly Pathogenic Staphylococci from Medium- and Non-pathogenic?. Current Topics in Microbiology and Immunology, 2012, 358, 33-89.	0.7	50
41	Dynamic in vivo mutations within the ica operon during persistence of Staphylococcus aureus in the airways of cystic fibrosis patients. PLoS Pathogens, 2016, 12, e1006024.	2.1	50
42	Colonization of Medical Devices by Coagulase-Negative Staphylococci. , 0, , 55-88.		48
43	Excretion of cytoplasmic proteins in Staphylococcus is most likely not due to cell lysis. Current Genetics, 2016, 62, 19-23.	0.8	47
44	Structural and Functional Analysis of Bacillus subtilis YisP Reveals a Role of Its Product in Biofilm Production. Chemistry and Biology, 2014, 21, 1557-1563.	6.2	44
45	Synthesis of the acylphloroglucinols rhodomyrtone and rhodomyrtosone B. Tetrahedron, 2013, 69, 8559-8563.	1.0	43
46	Microplastic Contamination in Human Stools, Foods, and Drinking Water Associated with Indonesian Coastal Population. Environments - MDPI, 2021, 8, 138.	1.5	42
47	Lipoproteins in Gram-Positive Bacteria: Abundance, Function, Fitness. Frontiers in Microbiology, 2020, 11, 582582.	1.5	41
48	Enhanced eryptosis contributes to anemia in lung cancer patients. Oncotarget, 2016, 7, 14002-14014.	0.8	41
49	The NreA Protein Functions as a Nitrate Receptor in the Staphylococcal Nitrate Regulation System. Journal of Molecular Biology, 2014, 426, 1539-1553.	2.0	40
50	Staphylococcal (phospho)lipases promote biofilm formation and host cell invasion. International Journal of Medical Microbiology, 2018, 308, 653-663.	1.5	40
51	Staphylococcal lipoproteins and their role in bacterial survival in mice. International Journal of Medical Microbiology, 2010, 300, 155-160.	1.5	39
52	The MazEF Toxin-Antitoxin System Alters the Î²-Lactam Susceptibility of Staphylococcus aureus. PLoS ONE, 2015, 10, e0126118.	1.1	39
53	Both Terminal Oxidases Contribute to Fitness and Virulence during Organ-Specific Staphylococcus aureus Colonization. MBio, 2013, 4, e00976-13.	1.8	38
54	The Staphylococcus aureus NuoL-Like Protein MpsA Contributes to the Generation of Membrane Potential. Journal of Bacteriology, 2015, 197, 794-806.	1.0	38

#	Article	IF	Citations
55	VraH Is the Third Component of the Staphylococcus aureus VraDEH System Involved in Gallidermin and Daptomycin Resistance and Pathogenicity. Antimicrobial Agents and Chemotherapy, 2016, 60, 2391-2401.	1.4	38
56	NOD2 Stimulation by Staphylococcus aureus-Derived Peptidoglycan Is Boosted by Toll-Like Receptor 2 Costimulation with Lipoproteins in Dendritic Cells. Infection and Immunity, 2014, 82, 4681-4688.	1.0	37
57	Structure-Function Analysis of Staphylococcus aureus Amidase Reveals the Determinants of Peptidoglycan Recognition and Cleavage. Journal of Biological Chemistry, 2014, 289, 11083-11094.	1.6	37
58	Microplastic Contamination in the Human Gastrointestinal Tract and Daily Consumables Associated with an Indonesian Farming Community. Sustainability, 2021, 13, 12840.	1.6	37
59	Killing of Staphylococci by Î²-Defensins Involves Membrane Impairment and Activation of Autolytic Enzymes. Antibiotics, 2014, 3, 617-631.	1.5	36
60	Staphylococcus carnosus: from starter culture to protein engineering platform. Applied Microbiology and Biotechnology, 2017, 101, 8293-8307.	1.7	36
61	WIPI-1 Positive Autophagosome-Like Vesicles Entrap Pathogenic<i>Staphylococcus aureus</i>for Lysosomal Degradation. International Journal of Cell Biology, 2012, 2012, 1-13.	1.0	34
62	Functional and structural analysis of the major amidase (Atl) in Staphylococcus. International Journal of Medical Microbiology, 2014, 304, 156-163.	1.5	33
63	Peptidoglycan perceptionâ€”Sensing bacteria by their common envelope structure. International Journal of Medical Microbiology, 2015, 305, 217-223.	1.5	33
64	Molecular Mechanisms of Staphylococcus and Pseudomonas Interactions in Cystic Fibrosis. Frontiers in Cellular and Infection Microbiology, 2021, 11, 824042.	1.8	33
65	Daptomycin Tolerance in the Staphylococcus aureus pitA6 Mutant Is Due to Upregulation of thedltOperon. Antimicrobial Agents and Chemotherapy, 2016, 60, 2684-2691.	1.4	32
66	Trace amines produced by skin bacteria accelerate wound healing in mice. Communications Biology, 2020, 3, 277.	2.0	32
67	Phylogeny of the Staphylococcal Major Autolysin and Its Use in Genus and Species Typing. Journal of Bacteriology, 2012, 194, 2630-2636.	1.0	29
68	Secretome analysis revealed adaptive and nonâ€adaptive responses of the Staphylococcus carnosus femB mutant. Proteomics, 2015, 15, 1268-1279.	1.3	29
69	Phenolâ€soluble modulin<i>Î±</i>induces G2/M phase transition delay in eukaryotic HeLa cells. FASEB Journal, 2015, 29, 1950-1959.	0.2	29
70	Rhodomyrtone (Rom) is a membrane-active compound. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1114-1124.	1.4	29
71	Oxidative stress drives the selection of quorum sensing mutants in the <i>Staphylococcus aureus</i> population. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19145-19154.	3.3	28
72	Staphylococcus aureus induces DNA damage in host cell. Scientific Reports, 2019, 9, 7694.	1.6	26

#	Article	IF	Citations
73	The YIN and YANG of lipoproteins in developing and preventing infectious arthritis by Staphylococcus aureus. PLoS Pathogens, 2019, 15, e1007877.	2.1	25
74	Dietary Intakes of Zinc, Copper, Magnesium, Calcium, Phosphorus, and Sodium by the General Adult Population Aged 20â€“50 Years in Shiraz, Iran: A Total Diet Study Approach. Nutrients, 2020, 12, 3370.	1.7	24
75	New insights in the coordinated amidase and glucosaminidase activity of the major autolysin (Atl) in Staphylococcus aureus. Communications Biology, 2020, 3, 695.	2.0	24
76	<i>Staphylococcus aureus</i>Lpl protein triggers human host cell invasion via activation of Hsp90 receptor. Cellular Microbiology, 2020, 22, e13111.	1.1	23
77	Genomic differences between the food-grade Staphylococcus carnosus and pathogenic staphylococcal species. International Journal of Medical Microbiology, 2010, 300, 104-108.	1.5	22
78	Role of the Na + -translocating NADH:quinone oxidoreductase in voltage generation and Na + extrusion in Vibrio cholerae. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 473-482.	0.5	22
79	MpsAB is important for Staphylococcus aureus virulence and growth at atmospheric CO2 levels. Nature Communications, 2019, 10, 3627.	5.8	22
80	The Polycyclic Polyprenylated Acylphloroglucinol Antibiotic PPAP 23 Targets the Membrane and Iron Metabolism in Staphylococcus aureus. Frontiers in Microbiology, 2019, 10, 14.	1.5	22
81	Impact of cell wall peptidoglycan O- acetylation on the pathogenesis of Staphylococcus aureus in septic arthritis. International Journal of Medical Microbiology, 2017, 307, 388-397.	1.5	21
82	Physical and genetic map of the genome of Staphylococcus carnosus TM300. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.7	20
83	Lipoprotein <i>N</i> -Acylation in <i>Staphylococcus aureus</i> Is Catalyzed by a Two-Component Acyl Transferase System. MBio, 2020, 11, .	1.8	19
84	Staphylococcus aureus Lpl Lipoproteins Delay G2/M Phase Transition in HeLa Cells. Frontiers in Cellular and Infection Microbiology, 2016, 6, 201.	1.8	18
85	Lantibiotic production is a burden for the producing staphylococci. Scientific Reports, 2018, 8, 7471.	1.6	18
86	A new host cell internalisation pathway for SadAâ€expressing staphylococci triggered by excreted neurochemicals. Cellular Microbiology, 2019, 21, e13044.	1.1	18
87	Staphylococcal Enterotoxins Dose-Dependently Modulate the Generation of Myeloid-Derived Suppressor Cells. Frontiers in Cellular and Infection Microbiology, 2018, 8, 321.	1.8	17
88	The role of Staphylococcus aureus lipoproteins in hematogenous septic arthritis. Scientific Reports, 2020, 10, 7936.	1.6	17
89	Lipoproteins Are Responsible for the Pro-Inflammatory Property of Staphylococcus aureus Extracellular Vesicles. International Journal of Molecular Sciences, 2021, 22, 7099.	1.8	17
90	In Silico and in Vitro Study of Trace Amines (TA) and Dopamine (DOP) Interaction with Human Alpha 1-Adrenergic Receptor and the Bacterial Adrenergic Receptor QseC. Cellular Physiology and Biochemistry, 2020, 54, 888-898.	1.1	17

#	Article	IF	Citations
91	Nicotine Enhances Staphylococcus epidermidis Biofilm Formation by Altering the Bacterial Autolysis, Extracellular DNA Releasing, and Polysaccharide Intercellular Adhesin Production. Frontiers in Microbiology, 2018, 9, 2575.	1.5	15
92	Inactivation of farR Causes High Rhodomyrtone Resistance and Increased Pathogenicity in Staphylococcus aureus. Frontiers in Microbiology, 2019, 10, 1157.	1.5	14
93	Staphylococcus aureus lipoproteins promote abscess formation in mice, shielding bacteria from immune killing. Communications Biology, 2021, 4, 432.	2.0	14
94	The role of serum proteins in Staphylococcus aureus adhesion to ethylene glycol coated surfaces. International Journal of Medical Microbiology, 2014, 304, 949-957.	1.5	13
95	Adaptive immune response to lipoproteins of Staphylococcus aureus in healthy subjects. Proteomics, 2016, 16, 2667-2677.	1.3	13
96	The Genome of Staphylococcus epidermidis O47. Frontiers in Microbiology, 2020, 11, 2061.	1.5	13
97	Toll-Like Receptor 2 and Lipoprotein-Like Lipoproteins Enhance Staphylococcus aureus Invasion in Epithelial Cells. Infection and Immunity, 2018, 86, .	1.0	12
98	Hypoglycemic activity and stability enhancement of human insulinâ€“tat mixture loaded in elastic anionic niosomes. Drug Delivery, 2016, 23, 3157-3167.	2.5	10
99	Inhibition of staphylococcal biofilm-related gene transcription by rhodomyrtone, a new antibacterial agent. Annals of Microbiology, 2015, 65, 659-665.	1.1	9
100	The Neuromodulator-Encoding sadA Gene Is Widely Distributed in the Human Skin Microbiome. Frontiers in Microbiology, 2020, 11, 573679.	1.5	9
101	The Ambivalent Role of Skin Microbiota and Adrenaline in Wound Healing and the Interplay between Them. International Journal of Molecular Sciences, 2021, 22, 4996.	1.8	9
102	Involvement of caspaseâ€1 in inflammasomes activation and bacterial clearance in <scp> <i>S. aureus</i> </scp> â€infected osteoblastâ€like <scp>MG</scp> â€63 cells. Cellular Microbiology, 2020, 22, e13204.	1.1	8
103	The MpsAB Bicarbonate Transporter Is Superior to Carbonic Anhydrase in Biofilm-Forming Bacteria with Limited CO ₂ Diffusion. Microbiology Spectrum, 2021, 9, e0030521.	1.2	8
104	Isolation and characterization of E. coli O157: H7 novel bacteriophage for controlling this food-borne pathogen. Virus Research, 2022, 315, 198754.	1.1	8
105	The bacterial cell envelope: Structure, function, and infection interface. International Journal of Medical Microbiology, 2015, 305, 175-177.	1.5	7
106	Genetic Adaptation of a Mevalonate Pathway Deficient Mutant in Staphylococcus aureus. Frontiers in Microbiology, 2018, 9, 1539.	1.5	7
107	Molecular Basis of Rhodomyrtone Resistance in Staphylococcus aureus. MBio, 2022, 13, e0383321.	1.8	7
108	Aspartate tightens the anchoring of staphylococcal lipoproteins to the cytoplasmic membrane. MicrobiologyOpen, 2017, 6, e00525.	1.2	6

#	Article	IF	Citations
109	Characterization of peptide deformylase homologues from Staphylococcus epidermidis. Microbiology (United Kingdom), 2010, 156, 3194-3202.	0.7	5
110	Staphylococcus aureus Genomes Harbor Only MpsAB-Like Bicarbonate Transporter but Not Carbonic Anhydrase as Dissolved Inorganic Carbon Supply System. Microbiology Spectrum, 2021, 9, e0097021.	1.2	5
111	Lipoproteins Cause Bone Resorption in a Mouse Model of Staphylococcus aureus Septic Arthritis. Frontiers in Microbiology, 2022, 13, 843799.	1.5	5
112	The Multitasking Surface Protein of Staphylococcus epidermidis: Accumulation-Associated Protein (Aap). MBio, 2021, 12, e0198921.	1.8	4
113	SppI Forms a Membrane Protein Complex with SppA and Inhibits Its Protease Activity in Bacillus subtilis. MSphere, 2020, 5, .	1.3	3
114	Identification of the Natural Transformation Genes in Riemerella anatipestifer by Random Transposon Mutagenesis. Frontiers in Microbiology, 2021, 12, 712198.	1.5	3
115	Ethnomedicinal Plants in Herbal Remedies Used for Treatment of Skin Diseases by Traditional Healers in Songkhla Province, Thailand. Plants, 2022, 11, 880.	1.6	3
116	Global Transcriptomic Analysis of Bacteriophage-Host Interactions between a Kayvirus Therapeutic Phage and Staphylococcus aureus. Microbiology Spectrum, 2022, 10, e0012322.	1.2	3
117	Sodium polyanethol sulfonate (SPS) falsifies protein staining and quantification and how to solve this problem. Journal of Microbiological Methods, 2015, 118, 176-181.	0.7	1