

# Roman G Gerlach

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

3,007  
citations

279798

23  
h-index

330143

37  
g-index

40  
all docs

40  
docs citations

40  
times ranked

5347  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of probiotics on the periodontium, the oral microbiota and the immune response during orthodontic treatment in adolescent and adult patients (ProMB Trial): study protocol for a prospective, double-blind, controlled, randomized clinical trial. <i>BMC Oral Health</i> , 2022, 22, 148.	2.3	7
2	Scalable Reporter Assays to Analyze the Regulation of stx2 Expression in Shiga Toxin-Producing Enteropathogens. <i>Toxins</i> , 2021, 13, 534.	3.4	1
3	Defining Metaniches in the Oral Cavity According to Their Microbial Composition and Cytokine Profile. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8218.	4.1	17
4	Recombinant protein production and purification of SiiD, SiiE and SiiF - Components of the SPI4-encoded type I secretion system from <i>Salmonella Typhimurium</i> . <i>Protein Expression and Purification</i> , 2020, 172, 105632.	1.3	6
5	Loss of the Periplasmic Chaperone Skp and Mutations in the Efflux Pump AcrAB-TolC Play a Role in Acquired Resistance to Antimicrobial Peptides in <i>Salmonella typhimurium</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 189.	3.5	14
6	Structural and functional characterization of SiiA, an auxiliary protein from the SPI4-encoded type I secretion system from <i>Salmonella enterica</i> . <i>Molecular Microbiology</i> , 2019, 112, 1403-1422.	2.5	9
7	<i>Mucispirillum schaedleri</i> Antagonizes <i>Salmonella</i> Virulence to Protect Mice against Colitis. <i>Cell Host and Microbe</i> , 2019, 25, 681-694.e8.	11.0	205
8	HIF1A and NFAT5 coordinate Na <sup>+</sup> -boosted antibacterial defense via enhanced autophagy and autolysosomal targeting. <i>Autophagy</i> , 2019, 15, 1899-1916.	9.1	39
9	High-Throughput Quantification of Bacterial-Cell Interactions Using Virtual Colony Counts. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 43.	3.9	12
10	Colistin- and carbapenem-resistant <i>Klebsiella oxytoca</i> harboring bla <sub>VIM</sub> -2 and an insertion in the mgrB gene isolated from blood culture. <i>International Journal of Medical Microbiology</i> , 2017, 307, 113-115.	3.6	8
11	Comparative whole genome analysis of three consecutive <i>Salmonella diarizonae</i> isolates. <i>International Journal of Medical Microbiology</i> , 2017, 307, 542-551.	3.6	10
12	Salt-responsive gut commensal modulates TH17 axis and disease. <i>Nature</i> , 2017, 551, 585-589.	27.8	896
13	Structural and functional dissection reveals distinct roles of Ca <sup>2+</sup> -binding sites in the giant adhesin SiiE of <i>Salmonella enterica</i> . <i>PLoS Pathogens</i> , 2017, 13, e1006418.	4.7	18
14	Scarless deletion of up to seven methyl-accepting chemotaxis genes with an optimized method highlights key function of CheM in <i>Salmonella Typhimurium</i> . <i>PLoS ONE</i> , 2017, 12, e0172630.	2.5	52
15	Temperate phages promote colicin-dependent fitness of <i>Salmonella enterica</i> serovar <i>Typhimurium</i> . <i>Environmental Microbiology</i> , 2016, 18, 1591-1603.	3.8	35
16	Low-oxygen tensions found in <i>Salmonella</i> -infected gut tissue boost <i>Salmonella</i> replication in macrophages by impairing antimicrobial activity and augmenting <i>Salmonella</i> virulence. <i>Cellular Microbiology</i> , 2015, 17, 1833-1847.	2.1	43
17	A Gateway-Based System for Fast Evaluation of Protein-Protein Interactions in Bacteria. <i>PLoS ONE</i> , 2015, 10, e0123646.	2.5	8
18	Cross talk between the response regulators PhoB and TctD allows for the integration of diverse environmental signals in <i>Pseudomonas aeruginosa</i> . <i>Nucleic Acids Research</i> , 2015, 43, 6413-6425.	14.5	54

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19	Inflammation Fuels Colicin Ib-Dependent Competition of Salmonella Serovar Typhimurium and E. coli in Enterobacterial Blooms. PLoS Pathogens, 2014, 10, e1003844.	4.7	95
20	The <i>Salmonella enterica</i> giant adhesin SiiE binds to polarized epithelial cells in a lectin-like manner. Cellular Microbiology, 2014, 16, 962-975.	2.1	36
21	SiiA and SiiB are novel type I secretion system subunits controlling SPI4-mediated adhesion of <i>Salmonella enterica</i> . Cellular Microbiology, 2014, 16, 161-178.	2.1	27
22	Pre- and Post-Processing Workflow for Affinity Purification Mass Spectrometry Data. Journal of Proteome Research, 2014, 13, 2239-2249.	3.7	8
23	Severe Soft Tissue Infection Caused by a Non-Beta-Hemolytic Streptococcus pyogenes Strain Harboring a Premature Stop Mutation in the <i>sagC</i> Gene. Journal of Clinical Microbiology, 2013, 51, 1962-1965.	3.9	4
24	LPS Structure and PhoQ Activity Are Important for Salmonella Typhimurium Virulence in the Galleria mellonella Infection Model. PLoS ONE, 2013, 8, e73287.	2.5	45
25	Gussia princeps Luciferase as a Reporter for Transcriptional Activity, Protein Secretion, and Protein-Protein Interactions in Salmonella enterica Serovar Typhimurium. Applied and Environmental Microbiology, 2012, 78, 250-257.	3.1	24
26	Hypoxia-Mediated Impairment of the Mitochondrial Respiratory Chain Inhibits the Bactericidal Activity of Macrophages. Infection and Immunity, 2012, 80, 1455-1466.	2.2	35
27	Functional dissection of SiiE, a giant non-fimbrial adhesin of Salmonella enterica. Cellular Microbiology, 2011, 13, 1286-1301.	2.1	41
28	Rapid and Highly Efficient Method for Scarless Mutagenesis within the Salmonella enterica Chromosome. PLoS ONE, 2011, 6, e15763.	2.5	85
29	Corynebacterium diphtheriae invasion-associated protein (DIP1281) is involved in cell surface organization, adhesion and internalization in epithelial cells. BMC Microbiology, 2010, 10, 2.	3.3	64
30	Rapid Oligonucleotide-Based Recombineering of the Chromosome of <i>Salmonella enterica</i> . Applied and Environmental Microbiology, 2009, 75, 1575-1580.	3.1	46
31	Cooperation of Salmonella pathogenicity islands 1 and 4 is required to breach epithelial barriers. Cellular Microbiology, 2008, 10, 2364-2376.	2.1	129
32	Hypoxia and Hypoxia-Inducible Factor-1 $\beta$ Modulate Lipopolysaccharide-Induced Dendritic Cell Activation and Function. Journal of Immunology, 2008, 180, 4697-4705.	0.8	363
33	Rapid Engineering of Bacterial Reporter Gene Fusions by Using Red Recombination. Applied and Environmental Microbiology, 2007, 73, 4234-4242.	3.1	56
34	<i>Salmonella</i> Pathogenicity Island 4-Mediated Adhesion Is Coregulated with Invasion Genes in <i>Salmonella enterica</i> . Infection and Immunity, 2007, 75, 4697-4709.	2.2	74
35	Protein secretion systems and adhesins: The molecular armory of Gram-negative pathogens. International Journal of Medical Microbiology, 2007, 297, 401-415.	3.6	232
36	Salmonella Pathogenicity Island 4 encodes a giant non-fimbrial adhesin and the cognate type 1 secretion system. Cellular Microbiology, 2007, 9, 1834-1850.	2.1	163

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37	Salmonella pathogenicity islands in host specificity, host pathogen-interactions and antibiotics resistance of Salmonella enterica. Berliner Und Munchener Tierarztliche Wochenschrift, 2007, 120, 317-27.	0.7	45