

Akos T Kovacs

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112
papers

2,600
citations

30
h-index

46
g-index

135
ext. papers

3,751
ext. citations

6.4
avg, IF

5.8
L-index

#	Paper	IF	Citations
112	Quantitative High-Throughput Screening Methods Designed for Identification of Bacterial Biocontrol Strains with Antifungal Properties.. <i>Microbiology Spectrum</i> , 2022 , e0143321	8.9	0
111	sensu lato biofilm formation and its ecological importance.. <i>Biofilm</i> , 2022 , 4, 100070	5.9	1
110	Adaptation and phenotypic diversification of <i>Bacillus thuringiensis</i> biofilm are accompanied by fuzzy spreader morphotypes.. <i>Npj Biofilms and Microbiomes</i> , 2022 , 8, 27	8.2	0
109	Experimental evolution of <i>Bacillus subtilis</i> on <i>Arabidopsis thaliana</i> roots reveals fast adaptation and improved root colonization. <i>iScience</i> , 2022 , 104406	6.1	2
108	Physiological and transcriptional profiling of surfactin exerted antifungal effect against <i>Candida albicans</i> . <i>Biomedicine and Pharmacotherapy</i> , 2022 , 152, 113220	7.5	0
107	Complete Genome Sequences of Four Soil-Derived Isolates for Studying Synthetic Bacterial Community Assembly. <i>Microbiology Resource Announcements</i> , 2021 , 10, e0084821	1.3	1
106	Adaptation of <i>Bacillus thuringiensis</i> to Plant Colonization Affects Differentiation and Toxicity. <i>MSystems</i> , 2021 , 6, e0086421	7.6	4
105	Impact of Rap-Phr system abundance on adaptation of <i>Bacillus subtilis</i> . <i>Communications Biology</i> , 2021 , 4, 468	6.7	7
104	Phylogenetic Distribution of Secondary Metabolites in the <i>Bacillus subtilis</i> Species Complex. <i>MSystems</i> , 2021 , 6,	7.6	7
103	<i>Bacillus subtilis</i> biofilm formation and social interactions. <i>Nature Reviews Microbiology</i> , 2021 , 19, 600-614	22.2	43
102	Biofilm Dispersal for Spore Release in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2021 , 203, e0019221	3.5	0
101	Deletion of Rap-Phr systems in <i>Bacillus subtilis</i> influences in vitro biofilm formation and plant root colonization. <i>MicrobiologyOpen</i> , 2021 , 10, e1212	3.4	5
100	Molecular Aspects of Plant Growth Promotion and Protection by. <i>Molecular Plant-Microbe Interactions</i> , 2021 , 34, 15-25	3.6	39
99	Pervasive prophage recombination occurs during evolution of spore-forming Bacilli. <i>ISME Journal</i> , 2021 , 15, 1344-1358	11.9	8
98	A circadian clock in a nonphotosynthetic prokaryote. <i>Science Advances</i> , 2021 , 7,	14.3	16
97	Quantitative image analysis of microbial communities with BiofilmQ. <i>Nature Microbiology</i> , 2021 , 6, 151-156	26.6	49
96	Genomic and Chemical Diversity of <i>Bacillus subtilis</i> Secondary Metabolites against Plant Pathogenic Fungi. <i>MSystems</i> , 2021 , 6,	7.6	15

95	Phages carry interbacterial weapons encoded by biosynthetic gene clusters. <i>Current Biology</i> , 2021 , 31, 3479-3489.e5	6.3	7
94	Diversification of <i>Bacillus subtilis</i> during experimental evolution on <i>Arabidopsis thaliana</i> and the complementarity in root colonization of evolved subpopulations. <i>Environmental Microbiology</i> , 2021 , 23, 6122-6136	5.2	10
93	<i>Bacillus velezensis</i> stimulates resident rhizosphere <i>Pseudomonas stutzeri</i> for plant health through metabolic interactions. <i>ISME Journal</i> , 2021 ,	11.9	17
92	Cheaters shape the evolution of phenotypic heterogeneity in <i>Bacillus subtilis</i> biofilms. <i>ISME Journal</i> , 2020 , 14, 2302-2312	11.9	12
91	Differential equation-based minimal model describing metabolic oscillations in biofilms. <i>Royal Society Open Science</i> , 2020 , 7, 190810	3.3	5
90	Complete Genome Sequences of 13 <i>Bacillus subtilis</i> Soil Isolates for Studying Secondary Metabolite Diversity. <i>Microbiology Resource Announcements</i> , 2020 , 9,	1.3	9
89	Secondary metabolites of impact the assembly of soil-derived semisynthetic bacterial communities. <i>Beilstein Journal of Organic Chemistry</i> , 2020 , 16, 2983-2998	2.5	5
88	Modelling population dynamics in a unicellular social organism community using a minimal model and evolutionary game theory. <i>Open Biology</i> , 2020 , 10, 200206	7	6
87	Metal ions weaken the hydrophobicity and antibiotic resistance of NCIB 3610 biofilms. <i>Npj Biofilms and Microbiomes</i> , 2020 , 6, 1	8.2	31
86	A fungal scent from the cheese. <i>Environmental Microbiology</i> , 2020 , 22, 4524-4526	5.2	1
85	Privatization of Biofilm Matrix in Structurally Heterogeneous Biofilms. <i>MSystems</i> , 2020 , 5,	7.6	7
84	Surfactin production is not essential for pellicle and root-associated biofilm development of. <i>Biofilm</i> , 2020 , 2, 100021	5.9	22
83	Depiction of secondary metabolites and antifungal activity of DTU001. <i>Synthetic and Systems Biotechnology</i> , 2019 , 4, 142-149	4.2	16
82	Are There Circadian Clocks in Non-Photosynthetic Bacteria?. <i>Biology</i> , 2019 , 8,	4.9	10
81	<i>Bacillus subtilis</i> . <i>Trends in Microbiology</i> , 2019 , 27, 724-725	12.4	29
80	The Ectomycorrhizospheric Habitat of Norway Spruce and : Promotion of Plant Growth and Fitness by a Rich Microorganismic Community. <i>Frontiers in Microbiology</i> , 2019 , 10, 307	5.7	9
79	Evolved Biofilm: Review on the Experimental Evolution Studies of <i>Bacillus subtilis</i> Pellicles. <i>Journal of Molecular Biology</i> , 2019 , 431, 4749-4759	6.5	32
78	Fungal hyphae colonization by relies on biofilm matrix components. <i>Biofilm</i> , 2019 , 1, 100007	5.9	11

77	Effect of Novel Quercetin Titanium Dioxide-Decorated Multi-Walled Carbon Nanotubes Nanocomposite on <i>Bacillus subtilis</i> Biofilm Development. <i>Materials</i> , 2018 , 11,	3.5	8
76	Division of Labor during Biofilm Matrix Production. <i>Current Biology</i> , 2018 , 28, 1903-1913.e5	6.3	114
75	Dissimilar pigment regulation in <i>Serpula lacrymans</i> and <i>Paxillus involutus</i> during inter-kingdom interactions. <i>Microbiology (United Kingdom)</i> , 2018 , 164, 65-77	2.9	15
74	Impaired competence in flagellar mutants of <i>Bacillus subtilis</i> is connected to the regulatory network governed by DegU. <i>Environmental Microbiology Reports</i> , 2018 , 10, 23-32	3.7	6
73	Collapse of genetic division of labour and evolution of autonomy in pellicle biofilms. <i>Nature Microbiology</i> , 2018 , 3, 1451-1460	26.6	28
72	Hampered motility promotes the evolution of wrinkly phenotype in <i>Bacillus subtilis</i> . <i>BMC Evolutionary Biology</i> , 2018 , 18, 155	3	10
71	The Peculiar Functions of the Bacterial Extracellular Matrix. <i>Trends in Microbiology</i> , 2017 , 25, 257-266	12.4	103
70	De novo evolved interference competition promotes the spread of biofilm defectors. <i>Nature Communications</i> , 2017 , 8, 15127	17.4	37
69	Lysinibacillus fusiformis M5 Induces Increased Complexity in <i>Bacillus subtilis</i> 168 Colony Biofilms via Hypoxanthine. <i>Journal of Bacteriology</i> , 2017 , 199,	3.5	12
68	Sliding on the surface: bacterial spreading without an active motor. <i>Environmental Microbiology</i> , 2017 , 19, 2537-2545	5.2	37
67	Surfing of bacterial droplets: sliding revisited. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8802	11.5	7
66	Evolution of exploitative interactions during diversification in <i>Bacillus subtilis</i> biofilms. <i>FEMS Microbiology Ecology</i> , 2017 , 93,	4.3	23
65	Structural damage of <i>Bacillus subtilis</i> biofilms using pulsed laser interaction with gold thin films. <i>Journal of Biophotonics</i> , 2017 , 10, 1043-1052	3.1	1
64	Application of quercetin and its bio-inspired nanoparticles as anti-adhesive agents against <i>Bacillus subtilis</i> attachment to surface. <i>Materials Science and Engineering C</i> , 2017 , 70, 753-762	8.3	14
63	YsbA and LytST are essential for pyruvate utilization in <i>Bacillus subtilis</i> . <i>Environmental Microbiology</i> , 2017 , 19, 83-94	5.2	21
62	From Cell Death to Metabolism: Holin-Antiholin Homologues with New Functions. <i>MBio</i> , 2017 , 8,	7.8	11
61	Presence of Calcium Lowers the Expansion of <i>Bacillus subtilis</i> Colony Biofilms. <i>Microorganisms</i> , 2017 , 5,	4.9	23
60	The Role of Functional Amyloids in Multicellular Growth and Development of Gram-Positive Bacteria. <i>Biomolecules</i> , 2017 , 7,	5.9	21

59	Bacterial differentiation via gradual activation of global regulators. <i>Current Genetics</i> , 2016 , 62, 125-8	2.9	24
58	Unraveling the predator-prey relationship of <i>Cupriavidus necator</i> and <i>Bacillus subtilis</i> . <i>Microbiological Research</i> , 2016 , 192, 231-238	5.3	12
57	Monitoring Spatial Segregation in Surface Colonizing Microbial Populations. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	12
56	The impact of manganese on biofilm development of <i>Bacillus subtilis</i> . <i>Microbiology (United Kingdom)</i> , 2016 , 162, 1468-1478	2.9	26
55	Specific <i>Bacillus subtilis</i> 168 variants form biofilms on nutrient-rich medium. <i>Microbiology (United Kingdom)</i> , 2016 , 162, 1922-1932	2.9	39
54	Draft Genome Sequence of the Soil Isolate <i>Lysinibacillus fusiformis</i> M5, a Potential Hypoxanthine Producer. <i>Genome Announcements</i> , 2016 , 4,		4
53	The global regulator CodY is required for the fitness of <i>Bacillus cereus</i> in various laboratory media and certain beverages. <i>FEMS Microbiology Letters</i> , 2016 , 363,	2.9	3
52	Laboratory Evolution of Microbial Interactions in Bacterial Biofilms. <i>Journal of Bacteriology</i> , 2016 , 198, 2564-71	3.5	39
51	Spatio-temporal remodeling of functional membrane microdomains organizes the signaling networks of a bacterium. <i>PLoS Genetics</i> , 2015 , 11, e1005140	6	29
50	Motility, Chemotaxis and Aerotaxis Contribute to Competitiveness during Bacterial Pellicle Biofilm Development. <i>Journal of Molecular Biology</i> , 2015 , 427, 3695-3708	6.5	73
49	Einblicke in das Sozialeben von Mikroben. <i>BioSpektrum</i> , 2015 , 21, 264-266	0.1	
48	<i>Bacillus subtilis</i> attachment to <i>Aspergillus niger</i> hyphae results in mutually altered metabolism. <i>Environmental Microbiology</i> , 2015 , 17, 2099-113	5.2	77
47	Single cell FRET analysis for the identification of optimal FRET-pairs in <i>Bacillus subtilis</i> using a prototype MEM-FLIM system. <i>PLoS ONE</i> , 2015 , 10, e0123239	3.7	10
46	A Duo of Potassium-Responsive Histidine Kinases Govern the Multicellular Destiny of <i>Bacillus subtilis</i> . <i>MBio</i> , 2015 , 6, e00581	7.8	64
45	From environmental signals to regulators: modulation of biofilm development in Gram-positive bacteria. <i>Journal of Basic Microbiology</i> , 2014 , 54, 616-32	2.7	43
44	In <i>Bacillus subtilis</i> LutR is part of the global complex regulatory network governing the adaptation to the transition from exponential growth to stationary phase. <i>Microbiology (United Kingdom)</i> , 2014 , 160, 243-260	2.9	12
43	Density of founder cells affects spatial pattern formation and cooperation in <i>Bacillus subtilis</i> biofilms. <i>ISME Journal</i> , 2014 , 8, 2069-79	11.9	149
42	Repeated triggering of sporulation in <i>Bacillus subtilis</i> selects against a protein that affects the timing of cell division. <i>ISME Journal</i> , 2014 , 8, 77-87	11.9	12

41	The YmdB phosphodiesterase is a global regulator of late adaptive responses in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2014 , 196, 265-75	3.5	37
40	Impact of spatial distribution on the development of mutualism in microbes. <i>Frontiers in Microbiology</i> , 2014 , 5, 649	5.7	25
39	Comparative genomics and transcriptomics analysis of experimentally evolved <i>Escherichia coli</i> MC1000 in complex environments. <i>Environmental Microbiology</i> , 2014 , 16, 856-70	5.2	11
38	DEAD-Box RNA helicases in <i>Bacillus subtilis</i> have multiple functions and act independently from each other. <i>Journal of Bacteriology</i> , 2013 , 195, 534-44	3.5	43
37	Benchmarking various green fluorescent protein variants in <i>Bacillus subtilis</i> , <i>Streptococcus pneumoniae</i> , and <i>Lactococcus lactis</i> for live cell imaging. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 6481-90	4.8	67
36	Functional analysis of the ComK protein of <i>Bacillus coagulans</i> . <i>PLoS ONE</i> , 2013 , 8, e53471	3.7	6
35	The protective layer of biofilm: a repellent function for a new class of amphiphilic proteins. <i>Molecular Microbiology</i> , 2012 , 85, 8-11	4.1	36
34	CodY, a pleiotropic regulator, influences multicellular behaviour and efficient production of virulence factors in <i>Bacillus cereus</i> . <i>Environmental Microbiology</i> , 2012 , 14, 2233-46	5.2	76
33	Crystal structures of two transcriptional regulators from <i>Bacillus cereus</i> define the conserved structural features of a PadR subfamily. <i>PLoS ONE</i> , 2012 , 7, e48015	3.7	28
32	Distinct roles of ComK1 and ComK2 in gene regulation in <i>Bacillus cereus</i> . <i>PLoS ONE</i> , 2011 , 6, e21859	3.7	5
31	Biofilm formation and dispersal in Gram-positive bacteria. <i>Current Opinion in Biotechnology</i> , 2011 , 22, 172-9	11.4	191
30	Rok regulates <i>yuaB</i> expression during architecturally complex colony development of <i>Bacillus subtilis</i> 168. <i>Journal of Bacteriology</i> , 2011 , 193, 998-1002	3.5	45
29	Transcriptional responses of <i>Bacillus cereus</i> towards challenges with the polysaccharide chitosan. <i>PLoS ONE</i> , 2011 , 6, e24304	3.7	9
28	Genetic tool development for a new host for biotechnology, the thermotolerant bacterium <i>Bacillus coagulans</i> . <i>Applied and Environmental Microbiology</i> , 2010 , 76, 4085-8	4.8	31
27	Response of <i>Bacillus cereus</i> ATCC 14579 to challenges with sublethal concentrations of enterocin AS-48. <i>BMC Microbiology</i> , 2009 , 9, 227	4.5	18
26	Ubiquitous late competence genes in <i>Bacillus</i> species indicate the presence of functional DNA uptake machineries. <i>Environmental Microbiology</i> , 2009 , 11, 1911-22	5.2	41
25	Induction of natural competence in <i>Bacillus cereus</i> ATCC14579. <i>Microbial Biotechnology</i> , 2008 , 1, 226-35	6.3	33
24	The PpsR regulator family. <i>Research in Microbiology</i> , 2005 , 156, 619-25	4	16

23	Anaerobic regulation of hydrogenase transcription in different bacteria. <i>Biochemical Society Transactions</i> , 2005 , 33, 36-8	5.1	11
22	The hydrogenases of <i>Thiocapsa roseopersicina</i> . <i>Biochemical Society Transactions</i> , 2005 , 33, 61-3	5.1	15
21	Hydrogen independent expression of hupSL genes in <i>Thiocapsa roseopersicina</i> BBS. <i>FEBS Journal</i> , 2005 , 272, 4807-16	5.7	17
20	An FNR-type regulator controls the anaerobic expression of hyn hydrogenase in <i>Thiocapsa roseopersicina</i> . <i>Journal of Bacteriology</i> , 2005 , 187, 2618-27	3.5	13
19	Cyanobacterial-type, heteropentameric, NAD ⁺ -reducing NiFe hydrogenase in the purple sulfur photosynthetic bacterium <i>Thiocapsa roseopersicina</i> . <i>Applied and Environmental Microbiology</i> , 2004 , 70, 722-8	4.8	67
18	Modular broad-host-range expression vectors for single-protein and protein complex purification. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 712-21	4.8	32
17	Improvement of biohydrogen production and intensification of biogas formation. <i>Reviews in Environmental Science and Biotechnology</i> , 2004 , 3, 321-330	13.9	16
16	Accessory proteins functioning selectively and pleiotropically in the biosynthesis of [NiFe] hydrogenases in <i>Thiocapsa roseopersicina</i> . <i>FEBS Journal</i> , 2003 , 270, 2218-27		29
15	Genes involved in the biosynthesis of photosynthetic pigments in the purple sulfur photosynthetic bacterium <i>Thiocapsa roseopersicina</i> . <i>Applied and Environmental Microbiology</i> , 2003 , 69, 3093-102	4.8	33
14	Hydrogenases, accessory genes and the regulation of [NiFe] hydrogenase biosynthesis in <i>Thiocapsa roseopersicina</i> . <i>International Journal of Hydrogen Energy</i> , 2002 , 27, 1463-1469	6.7	25
13	Transposon mutagenesis in purple sulfur photosynthetic bacteria: identification of hypF, encoding a protein capable of processing [NiFe] hydrogenases in alpha, beta, and gamma subdivisions of the proteobacteria. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 2476-83	4.8	33
12	Fungal hyphae colonization by <i>Bacillus subtilis</i> relies on biofilm matrix components		1
11	Privatization of biofilm matrix in structurally heterogeneous biofilms		1
10	Pervasive prophage recombination occurs during evolution of spore-forming <i>Bacilli</i>		3
9	Genomic and chemical diversity of <i>Bacillus subtilis</i> secondary metabolites against plant pathogenic fungi		2
8	Impact of Rap-Phr system abundance on adaptation of <i>Bacillus subtilis</i>		4
7	Phages weaponize their bacteria with biosynthetic gene clusters		2
6	Phylogenetic distribution of secondary metabolites in the <i>Bacillus subtilis</i> species complex		1

5	Adaptation of <i>Bacillus thuringiensis</i> to plant colonization affects differentiation and toxicity	3
4	BiofilmQ, a software tool for quantitative image analysis of microbial biofilm communities	14
3	Experimental evolution of <i>Bacillus subtilis</i> on <i>Arabidopsis thaliana</i> roots reveals fast adaptation and improved root colonization in the presence of soil microbes	2
2	Diversification of <i>B. subtilis</i> during experimental evolution on <i>A. thaliana</i> and the complementarity in root colonization of evolved subpopulations	2
1	Adaptation and phenotypic diversification of <i>Bacillus thuringiensis</i> 407 biofilm are accompanied by a fuzzy spreader morphotype	1