

Christophe Beloin

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.

87
papers

5,148
citations

40
h-index

71
g-index

99
ext. papers

6,157
ext. citations

6.3
avg, IF

5.69
L-index

#	Paper	IF	Citations
87	An ancient divide in outer membrane tethering systems in bacteria suggests a mechanism for the diderm-to-monoderm transition.. <i>Nature Microbiology</i> , 2022 , 7, 411-422	26.6	0
86	Lifestyle-specific S-nitrosylation of protein cysteine thiols regulates Escherichia coli biofilm formation and resistance to oxidative stress. <i>Npj Biofilms and Microbiomes</i> , 2021 , 7, 34	8.2	6
85	On the strong connection between nanoscale adhesion of Yad fimbriae and macroscale attachment of Yad-decorated bacteria to glycosylated, hydrophobic and hydrophilic surfaces. <i>Nanoscale</i> , 2021 , 13, 1257-1272	7.7	1
84	Capsular Polysaccharide Cross-Regulation Modulates Bacteroides thetaiotaomicron Biofilm Formation. <i>MBio</i> , 2020 , 11,	7.8	6
83	One or two membranes? Diderm Firmicutes challenge the Gram-positive/Gram-negative divide. <i>Molecular Microbiology</i> , 2020 , 113, 659-671	4.1	24
82	Electrophoresis as a simple method to detect deleterious actions of engineered nanoparticles on living cells. <i>Environmental Chemistry</i> , 2020 , 17, 39	3.2	0
81	Autotransporters Drive Biofilm Formation and Autoaggregation in the Diderm Firmicute Veillonella parvula. <i>Journal of Bacteriology</i> , 2020 , 202,	3.5	3
80	Visualizing the dynamics of exported bacterial proteins with the chemogenetic fluorescent reporter FAST. <i>Scientific Reports</i> , 2020 , 10, 15791	4.9	9
79	Genome-wide analysis of the Firmicutes illuminates the diderm/monoderm transition. <i>Nature Ecology and Evolution</i> , 2020 , 4, 1661-1672	12.3	14
78	A Putative Type V Pilus Contributes to Bacteroides thetaiotaomicron Biofilm Formation Capacity. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	8
77	Zinc Acetate Potentiates the Action of Tosufloxacin against Escherichia coli Biofilm Persisters. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	3
76	Asymmetric adhesion of rod-shaped bacteria controls microcolony morphogenesis. <i>Nature Communications</i> , 2018 , 9, 1120	17.4	47
75	Long-term stability of gentamicin sulfate-ethylenediaminetetraacetic acid disodium salt (EDTA-Na) solution for catheter locks. <i>Journal of Pharmaceutical Analysis</i> , 2018 , 8, 386-393	14	2
74	Increased Osmolarity in Biofilm Triggers RcsB-Dependent Lipid A Palmitoylation in. <i>MBio</i> , 2018 , 9,	7.8	10
73	Probing the influence of cell surface polysaccharides on nanodendrimer binding to Gram-negative and Gram-positive bacteria using single-nanoparticle force spectroscopy. <i>Nanoscale</i> , 2018 , 10, 12743-12753	7.7	12
72	Central venous catheters and biofilms: where do we stand in 2017?. <i>Apmis</i> , 2017 , 125, 365-375	3.4	81
71	Comparative Analysis of Bacterial Community Composition and Structure in Clinically Symptomatic and Asymptomatic Central Venous Catheters. <i>MSphere</i> , 2017 , 2,	5	5

70	YeeJ is an inverse autotransporter from Escherichia coli that binds to peptidoglycan and promotes biofilm formation. <i>Scientific Reports</i> , 2017 , 7, 11326	4.9	12
69	Understanding biofilm formation in intravascular device-related infections. <i>Intensive Care Medicine</i> , 2017 , 43, 443-446	14.5	15
68	Outer Membrane Proteome of A Diderm Firmicute of the Human Microbiome. <i>Frontiers in Microbiology</i> , 2017 , 8, 1215	5.7	38
67	Impact of percutaneous pulmonary valve implantation procedural steps on leaflets histology and mechanical behaviour: An in vitro study. <i>Archives of Cardiovascular Diseases</i> , 2016 , 109, 465-75	2.7	17
66	Study of in vivo catheter biofilm infections using pediatric central venous catheter implanted in rat. <i>Nature Protocols</i> , 2016 , 11, 525-41	18.8	13
65	Phylogenomic analysis supports the ancestral presence of LPS-outer membranes in the Firmicutes. <i>ELife</i> , 2016 , 5,	8.9	48
64	Functional analysis of Escherichia coli Yad fimbriae reveals their potential role in environmental persistence. <i>Environmental Microbiology</i> , 2016 , 18, 5228-5248	5.2	15
63	In vitro activity of gentamicin, vancomycin or amikacin combined with EDTA or l-arginine as lock therapy against a wide spectrum of biofilm-forming clinical strains isolated from catheter-related infections. <i>Journal of Antimicrobial Chemotherapy</i> , 2015 , 70, 1704-12	5.1	31
62	Selective propensity of bovine jugular vein material to bacterial adhesions: An in-vitro study. <i>International Journal of Cardiology</i> , 2015 , 198, 201-5	3.2	42
61	Inhibition of type 1 fimbriae-mediated Escherichia coli adhesion and biofilm formation by trimeric cluster thiomannosides conjugated to diamond nanoparticles. <i>Nanoscale</i> , 2015 , 7, 2325-35	7.7	45
60	pH-mediated potentiation of aminoglycosides kills bacterial persisters and eradicates in vivo biofilms. <i>Journal of Infectious Diseases</i> , 2014 , 210, 1357-66	7	81
59	Management of infections related to totally implantable venous-access ports: challenges and perspectives. <i>Lancet Infectious Diseases</i> , 2014 , 14, 146-59	25.5	106
58	The dynamics and pH-dependence of Ag43 adhesins self-association probed by atomic force spectroscopy. <i>Nanoscale</i> , 2014 , 6, 12665-81	7.7	11
57	Novel approaches to combat bacterial biofilms. <i>Current Opinion in Pharmacology</i> , 2014 , 18, 61-8	5.1	105
56	In vitro activities of dermaseptins K4S4 and K4K20S4 against Escherichia coli, Staphylococcus aureus, and Pseudomonas aeruginosa planktonic growth and biofilm formation. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 2221-8	5.9	12
55	Biofilm-related infections: bridging the gap between clinical management and fundamental aspects of recalcitrance toward antibiotics. <i>Microbiology and Molecular Biology Reviews</i> , 2014 , 78, 510-43	13.2	593
54	Preventing biofilm formation and associated occlusion by biomimetic glycocalyxlike polymer in central venous catheters. <i>Journal of Infectious Diseases</i> , 2014 , 210, 1347-56	7	39
53	Tolérance des biofilms aux antibiotiques: comprendre pour mieux traiter. <i>Journal Des Anti-infectieux</i> , 2014 , 16, 112-121		2

52	Dynamic modulation of fimbrial extension and FimH-mannose binding force on live bacteria under pH changes: a molecular atomic force microscopy analysis. <i>Journal of Biomedical Nanotechnology</i> , 2014 , 10, 3361-72	4	11
51	A new biofilm-associated colicin with increased efficiency against biofilm bacteria. <i>ISME Journal</i> , 2014 , 8, 1275-88	11.9	30
50	Biofilms formed by gram-negative bacteria undergo increased lipid palmitoylation, enhancing in vivo survival. <i>MBio</i> , 2014 , 5,	7.8	50
49	Bacteria hold their breath upon surface contact as shown in a strain of Escherichia coli, using dispersed surfaces and flow cytometry analysis. <i>PLoS ONE</i> , 2014 , 9, e102049	3.7	15
48	Sugar-modified foldamers as conformationally defined and biologically distinct glycopeptide mimics. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10221-6	16.4	24
47	Glycan-functionalized diamond nanoparticles as potent E. coli anti-adhesives. <i>Nanoscale</i> , 2013 , 5, 2307-16.7	8.1	
46	From in vitro to in vivo Models of Bacterial Biofilm-Related Infections. <i>Pathogens</i> , 2013 , 2, 288-356	4.5	271
45	Bacterial biofilm mechanical properties persist upon antibiotic treatment and survive cell death. <i>New Journal of Physics</i> , 2013 , 15, 125026	2.9	23
44	Starvation, together with the SOS response, mediates high biofilm-specific tolerance to the fluoroquinolone ofloxacin. <i>PLoS Genetics</i> , 2013 , 9, e1003144	6	172
43	Induction of the Cpx envelope stress pathway contributes to Escherichia coli tolerance to antimicrobial peptides. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 7770-9	4.8	26
42	Sugar-Modified Foldamers as Conformationally Defined and Biologically Distinct Glycopeptide Mimics. <i>Angewandte Chemie</i> , 2013 , 125, 10411-10416	3.6	9
41	Identification of commensal Escherichia coli genes involved in biofilm resistance to pathogen colonization. <i>PLoS ONE</i> , 2013 , 8, e61628	3.7	25
40	Did I pick the right colony? Pitfalls in the study of regulation of the phase variable antigen 43 adhesin. <i>PLoS ONE</i> , 2013 , 8, e73568	3.7	21
39	Molecular characterization of UpaB and UpaC, two new autotransporter proteins of uropathogenic Escherichia coli CFT073. <i>Infection and Immunity</i> , 2012 , 80, 321-32	3.7	66
38	Mapping of bacterial biofilm local mechanics by magnetic microparticle actuation. <i>Biophysical Journal</i> , 2012 , 103, 1400-8	2.9	71
37	A rat model of central venous catheter to study establishment of long-term bacterial biofilm and related acute and chronic infections. <i>PLoS ONE</i> , 2012 , 7, e37281	3.7	51
36	Molecular characterization of the EhaG and UpaG trimeric autotransporter proteins from pathogenic Escherichia coli. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 2179-89	4.8	56
35	Functional heterogeneity of the UpaH autotransporter protein from uropathogenic Escherichia coli. <i>Journal of Bacteriology</i> , 2012 , 194, 5769-82	3.5	28

34	Full and broad-spectrum in vivo eradication of catheter-associated biofilms using gentamicin-EDTA antibiotic lock therapy. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 6310-8	5.9	68
33	Bacterial surface appendages strongly impact nanomechanical and electrokinetic properties of <i>Escherichia coli</i> cells subjected to osmotic stress. <i>PLoS ONE</i> , 2011 , 6, e20066	3.7	59
32	The sweet connection: Solving the riddle of multiple sugar-binding fimbrial adhesins in <i>Escherichia coli</i> : Multiple <i>E. coli</i> fimbriae form a versatile arsenal of sugar-binding lectins potentially involved in surface-colonisation and tissue tropism. <i>BioEssays</i> , 2011 , 33, 300-11	4.1	58
31	<i>Escherichia coli</i> K-12 possesses multiple cryptic but functional chaperone-usher fimbriae with distinct surface specificities. <i>Environmental Microbiology</i> , 2010 , 12, 1957-77	5.2	117
30	Silent mischief: bacteriophage Mu insertions contaminate products of <i>Escherichia coli</i> random mutagenesis performed using suicidal transposon delivery plasmids mobilized by broad-host-range RP4 conjugative machinery. <i>Journal of Bacteriology</i> , 2010 , 192, 6418-27	3.5	166
29	Biofilm-forming <i>Pseudomonas aeruginosa</i> bacteria undergo lipopolysaccharide structural modifications and induce enhanced inflammatory cytokine response in human monocytes. <i>Innate Immunity</i> , 2010 , 16, 288-301	2.7	47
28	Impact of <i>rpoS</i> deletion on the proteome of <i>Escherichia coli</i> grown planktonically and as biofilm. <i>Journal of Proteome Research</i> , 2008 , 7, 4659-69	5.6	36
27	<i>Escherichia coli</i> biofilms. <i>Current Topics in Microbiology and Immunology</i> , 2008 , 322, 249-89	3.3	304
26	UpaG, a new member of the trimeric autotransporter family of adhesins in uropathogenic <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2008 , 190, 4147-61	3.5	119
25	A short-time scale colloidal system reveals early bacterial adhesion dynamics. <i>PLoS Biology</i> , 2008 , 6, e167	7.7	44
24	Functional analysis of antigen 43 in uropathogenic <i>Escherichia coli</i> reveals a role in long-term persistence in the urinary tract. <i>Infection and Immunity</i> , 2007 , 75, 3233-44	3.7	154
23	Biofilm forming <i>P. aeruginosa</i> induces an enhanced inflammatory response in human monocytes. <i>Critical Care</i> , 2007 , 11, P26	10.8	78
22	Tight modulation of <i>Escherichia coli</i> bacterial biofilm formation through controlled expression of adhesion factors. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 3391-403	4.8	49
21	The transcriptional antiterminator RfaH represses biofilm formation in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2006 , 188, 1316-31	3.5	76
20	Finding gene-expression patterns in bacterial biofilms. <i>Trends in Microbiology</i> , 2005 , 13, 16-9	12.4	162
19	Combined inactivation and expression strategy to study gene function under physiological conditions: application to identification of new <i>Escherichia coli</i> adhesins. <i>Journal of Bacteriology</i> , 2005 , 187, 1001-13	3.5	92
18	Colonization of Abiotic Surfaces. <i>EcoSal Plus</i> , 2005 , 1,	7.7	8
17	CpxR/OmpR interplay regulates curli gene expression in response to osmolarity in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2005 , 187, 2038-49	3.5	204

16	Global impact of mature biofilm lifestyle on Escherichia coli K-12 gene expression. <i>Molecular Microbiology</i> , 2004 , 51, 659-74	4.1	350
15	Shigella flexneri 2a strain 2457T expresses three members of the H-NS-like protein family: characterization of the Sfh protein. <i>Molecular Genetics and Genomics</i> , 2003 , 270, 66-77	3.1	61
14	An extended role for the nucleoid structuring protein H-NS in the virulence gene regulatory cascade of Shigella flexneri. <i>Molecular Microbiology</i> , 2003 , 47, 825-38	4.1	78
13	Three-way interactions among the Sfh, StpA and H-NS nucleoid-structuring proteins of Shigella flexneri 2a strain 2457T. <i>Molecular Microbiology</i> , 2003 , 48, 1401-16	4.1	66
12	In vitro DNA-binding properties of VirB, the Shigella flexneri virulence regulatory protein. <i>FEBS Letters</i> , 2003 , 545, 183-7	3.8	17
11	Contribution of DNA conformation and topology in right-handed DNA wrapping by the Bacillus subtilis LrpC protein. <i>Journal of Biological Chemistry</i> , 2003 , 278, 5333-42	5.4	73
10	Molecular dissection of VirB, a key regulator of the virulence cascade of Shigella flexneri. <i>Journal of Biological Chemistry</i> , 2002 , 277, 15333-44	5.4	43
9	Regulation of virulence gene expression in Shigella flexneri, a facultative intracellular pathogen. <i>International Journal of Medical Microbiology</i> , 2001 , 291, 89-96	3.7	50
8	A possible role for L24 of Bacillus subtilis in nucleoid organization and segregation. <i>Biochimie</i> , 2001 , 83, 269-75	4.6	8
7	Characterization of LrpC DNA-binding properties and regulation of Bacillus subtilis lrpC gene expression. <i>Journal of Bacteriology</i> , 2000 , 182, 4414-24	3.5	23
6	The L17 ribosomal protein of Bacillus subtilis binds preferentially to curved DNA. <i>Biochimie</i> , 2000 , 82, 85-91	4.6	4
5	Characterization of an lrp-like (lrpC) gene from Bacillus subtilis. <i>Molecular Genetics and Genomics</i> , 1997 , 256, 63-71		23
4	Suppression of the Bgl ⁺ phenotype of a delta hns strain of Escherichia coli by a Bacillus subtilis antiterminator binding site. <i>Molecular Genetics and Genomics</i> , 1996 , 250, 761-6		1
3	Overproduction, purification and characterization of the HPB12-L24 ribosomal protein of Bacillus subtilis. <i>FEMS Microbiology Letters</i> , 1996 , 145, 41-8	2.9	5
2	Capsular polysaccharides cross-regulation modulates Bacteroides thetaiotaomicron biofilm formation		1
1	Visualizing the dynamics of exported bacterial proteins with the chemogenetic fluorescent reporter FAST		1