

# CITATION REPORT

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## Single-cell force spectroscopy of pili-mediated adhesion

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#	Paper	IF	Citations
70	Atomic force microscopy in microbiology: new structural and functional insights into the microbial cell surface. <i>MBio</i> , <b>2014</b> , 5, e01363-14	7.8	109
69	The binding force of the staphylococcal adhesin SdrG is remarkably strong. <i>Molecular Microbiology</i> , <b>2014</b> , 93, 356-68	4.1	85
68	Inhibition of the adhesion of <i>Escherichia coli</i> to human epithelial cells by carbohydrates. <i>Bioactive Carbohydrates and Dietary Fibre</i> , <b>2014</b> , 4, 1-5	3.4	11
67	Nanoscale adhesion forces of <i>Pseudomonas aeruginosa</i> type IV Pili. <i>ACS Nano</i> , <b>2014</b> , 8, 10723-33	16.7	106
66	A concise review of nanoscopic aspects of bioleaching bacteria-mineral interactions. <i>Advances in Colloid and Interface Science</i> , <b>2014</b> , 212, 45-63	14.3	42
65	Structural insights into bacterial recognition of intestinal mucins. <i>Current Opinion in Structural Biology</i> , <b>2014</b> , 28, 23-31	8.1	62
64	Differences in adhesion of <i>A. thiooxidans</i> and <i>A. ferrooxidans</i> on chalcopyrite as revealed by atomic force microscopy with bacterial probes. <i>Minerals Engineering</i> , <b>2014</b> , 61, 9-15	4.9	16
63	Nanotechnology in dentistry: prevention, diagnosis, and therapy. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 6371-94	7.3	60
62	Binding forces of <i>Streptococcus mutans</i> P1 adhesin. <i>ACS Nano</i> , <b>2015</b> , 9, 1448-60	16.7	47
61	Single-bacterium nanomechanics in biomedicine: unravelling the dynamics of bacterial cells. <i>Nanotechnology</i> , <b>2015</b> , 26, 062001	3.4	19
60	Sticky microbes: forces in microbial cell adhesion. <i>Trends in Microbiology</i> , <b>2015</b> , 23, 376-82	12.4	118
59	Nano-adhesion of <i>Staphylococcus aureus</i> onto Titanium Implant Surfaces. <i>Journal of Dental Research</i> , <b>2015</b> , 94, 1078-84	8.1	18
58	Single-virus force spectroscopy unravels molecular details of virus infection. <i>Integrative Biology (United Kingdom)</i> , <b>2015</b> , 7, 620-32	3.7	16
57	Stochastic binding of <i>Staphylococcus aureus</i> to hydrophobic surfaces. <i>Soft Matter</i> , <b>2015</b> , 11, 8913-9	3.6	26
56	Understanding forces in biofilms. <i>Nanomedicine</i> , <b>2015</b> , 10, 1219-21	5.6	5
55	Unbinding forces and energies between a siRNA molecule and a dendrimer measured by force spectroscopy. <i>Nanoscale</i> , <b>2015</b> , 7, 20267-76	7.7	14
54	Use of Atomic Force Microscopy to Study the Multi-Modular Interaction of Bacterial Adhesins to Mucins. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	22

53	Bacterial Surfaces: Front Lines in Host-Pathogen Interaction. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 915, 129-56	3.6	6
52	Biophysics of Infection. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> ,	3.6	3
51	Colonization of Polystyrene Microparticles by <i>Vibrio crassostreae</i> : Light and Electron Microscopic Investigation. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 10988-10996	10.3	76
50	Oligomerized backbone pilin helps piliated <i>Lactococcus lactis</i> to withstand shear flow. <i>Biofouling</i> , <b>2016</b> , 32, 911-23	3.3	4
49	Force Sensitivity in <i>Saccharomyces cerevisiae</i> Flocculins. <i>MSphere</i> , <b>2016</b> , 1,	5	15
48	Mechanical Strength and Inhibition of the <i>Staphylococcus aureus</i> Collagen-Binding Protein Cna. <i>MBio</i> , <b>2016</b> , 7,	7.8	50
47	Curli mediate bacterial adhesion to fibronectin via tensile multiple bonds. <i>Scientific Reports</i> , <b>2016</b> , 6, 33909	4.9	41
46	Characterizing the effect of polymyxin B antibiotics to lipopolysaccharide on <i>Escherichia coli</i> surface using atomic force microscopy. <i>Journal of Molecular Recognition</i> , <b>2017</b> , 30, e2605	2.6	15
45	Nanoscale imaging and force probing of biomolecular systems using atomic force microscopy: from single molecules to living cells. <i>Nanoscale</i> , <b>2017</b> , 9, 17643-17666	7.7	25
44	Functional expression of the entire adhesiome of <i>Salmonella enterica</i> serotype Typhimurium. <i>Scientific Reports</i> , <b>2017</b> , 7, 10326	4.9	25
43	Recent advances in studying single bacteria and biofilm mechanics. <i>Advances in Colloid and Interface Science</i> , <b>2017</b> , 247, 573-588	14.3	30
42	Determination of the nano-scaled contact area of staphylococcal cells. <i>Nanoscale</i> , <b>2017</b> , 9, 10084-10093	7.7	19
41	Detachment and successive re-attachment of multiple, reversibly-binding tethers result in irreversible bacterial adhesion to surfaces. <i>Scientific Reports</i> , <b>2017</b> , 7, 4369	4.9	19
40	Cell-cycle-specific Cellular Responses to Sonoporation. <i>Theranostics</i> , <b>2017</b> , 7, 4894-4908	12.1	28
39	Novel Molecular Insights about Lactobacillar Sortase-Dependent Piliation. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	16
38	Emergent heterogeneous microenvironments in biofilms: substratum surface heterogeneity and bacterial adhesion force-sensing. <i>FEMS Microbiology Reviews</i> , <b>2018</b> , 42, 259-272	15.1	41
37	Single Molecule Force Spectroscopy Reveals Two-Domain Binding Mode of Pilus-1 Tip Protein Rga of <i>Streptococcus pneumoniae</i> to Fibronectin. <i>ACS Nano</i> , <b>2018</b> , 12, 549-558	16.7	24
36	Adhesive interactions between milk fat globule membrane and <i>Lactobacillus rhamnosus</i> GG inhibit bacterial attachment to Caco-2 TC7 intestinal cell. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 167, 44-53 <sup>6</sup>		20

35	Bacterial Adhesion to Ultrafiltration Membranes: Role of Hydrophilicity, Natural Organic Matter, and Cell-Surface Macromolecules. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 162-172	10.3	34
34	Adhesion of <i>Lactobacillus rhamnosus</i> GG surface biomolecules to milk proteins. <i>Food Hydrocolloids</i> , <b>2018</b> , 82, 296-303	10.6	12
33	Nanowire Arrays as Force Sensors with Super-Resolved Localization Position Detection: Application to Optical Measurement of Bacterial Adhesion Forces. <i>Small Methods</i> , <b>2018</b> , 2, 1700411	12.8	7
32	Single-molecule atomic force microscopy studies of microbial pathogens. <i>Current Opinion in Biomedical Engineering</i> , <b>2019</b> , 12, 1-7	4.4	14
31	Microbial adhesion and ultrastructure from the single-molecule to the single-cell levels by Atomic Force Microscopy. <i>Cell Surface</i> , <b>2019</b> , 5, 100031	4.8	7
30	Direct measurement of interaction forces between a yeast cell and a microbubble using atomic force microscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 583, 123963	5.1	4
29	Nanoprobe-based force spectroscopy as a versatile platform for probing the mechanical adhesion of bacteria. <i>Nanoscale</i> , <b>2019</b> , 11, 7648-7655	7.7	3
28	spectroscopic analysis of GG flow on an abiotic surface reveals a role for nutrients in biofilm development. <i>Biofouling</i> , <b>2019</b> , 35, 494-507	3.3	6
27	Insight Into Interactions of Thermoacidophilic Archaea With Elemental Sulfur: Biofilm Dynamics and EPS Analysis. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 896	5.7	17
26	Experimental models to study intestinal microbes-mucus interactions in health and disease. <i>FEMS Microbiology Reviews</i> , <b>2019</b> , 43, 457-489	15.1	58
25	Bacterial-nanostructure interactions: The role of cell elasticity and adhesion forces. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 546, 192-210	9.3	69
24	In vivo adhesion force measurements of <i>Chlamydomonas</i> on model substrates. <i>Soft Matter</i> , <b>2019</b> , 15, 3027-3035	3.6	13
23	Surface Coatings Modulate the Differences in the Adhesion Forces of Eukaryotic and Prokaryotic Cells as Detected by Single Cell Force Microscopy. <i>International Journal of Biomaterials</i> , <b>2019</b> , 2019, 7024259	3.2	2
22	What makes bacterial pathogens so sticky?. <i>Molecular Microbiology</i> , <b>2020</b> , 113, 683-690	4.1	10
21	Atomic Force Microscopy (AFM) As a Surface Mapping Tool in Microorganisms Resistant Toward Antimicrobials: A Mini-Review. <i>Frontiers in Pharmacology</i> , <b>2020</b> , 11, 517165	5.6	3
20	The microbial adhesive arsenal deciphered by atomic force microscopy. <i>Nanoscale</i> , <b>2020</b> , 12, 23885-23896	7.7	2
19	Switchable Adhesion of to Thermosensitive Carbohydrate-Presenting Microgel Layers: A Single-Cell Force Spectroscopy Study. <i>Langmuir</i> , <b>2020</b> , 36, 12555-12562	4	9
18	The importance of force in microbial cell adhesion. <i>Current Opinion in Colloid and Interface Science</i> , <b>2020</b> , 47, 111-117	7.6	8

17	How Microbes Use Force To Control Adhesion. <i>Journal of Bacteriology</i> , <b>2020</b> , 202,	3.5	8
16	AFM in cellular and molecular microbiology. <i>Cellular Microbiology</i> , <b>2021</b> , 23, e13324	3.9	10
15	Effect of surface properties of ceramic materials on bacterial adhesion: A systematic review. <i>Journal of Esthetic and Restorative Dentistry</i> , <b>2021</b> ,	3.5	0
14	Bacterial adhesion to biomaterials: What regulates this attachment? A review. <i>Japanese Dental Science Review</i> , <b>2021</b> , 57, 85-96	6.8	8
13	The biophysics of bacterial infections: Adhesion events in the light of force spectroscopy. <i>Cell Surface</i> , <b>2021</b> , 7, 100048	4.8	2
12	Bacterial anti-adhesion surface design: Surface patterning, roughness and wettability: A review. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 99, 82-100	9.1	10
11	Probiotic Gut Microbiota Isolate Interacts with Dendritic Cells via Glycosylated Heterotrimeric Pili. <i>PLoS ONE</i> , <b>2016</b> , 11, e0151824	3.7	40
10	The Nanomechanical Properties of Lactococcus lactis Pili Are Conditioned by the Polymerized Backbone Pilin. <i>PLoS ONE</i> , <b>2016</b> , 11, e0152053	3.7	13
9	Design, preparation, and characterization of CS/PVA/SA hydrogels modified with mesoporous AgO/SiO and curcumin nanoparticles for green, biocompatible, and antibacterial biopolymer film.. <i>RSC Advances</i> , <b>2021</b> , 11, 32775-32791	3.7	6
8	FACTORS DETERMING THE ADHESIVE CAPACITY OF LACTOBACILLUS BACTERIA. <i>Postepy Mikrobiologii</i> , <b>2019</b> , 56, 196-204	0.4	1
7	Atomic Force Microscopy: A New Look at Microbes. <b>2020</b> , 1, 1-111		
6	Interplay of physico-chemical and mechanical bacteria-surface interactions with transport processes controls early biofilm growth: A review.. <i>Advances in Colloid and Interface Science</i> , <b>2022</b> , 304, 102665	14.3	1
5	Data_Sheet_2.zip. <b>2019</b> ,		
4	Data_Sheet_1.docx. <b>2019</b> ,		
3	DataSheet_1.pdf. <b>2020</b> ,		
2	AFM Force Spectroscopy of Living Bacteria. <b>2020</b> , 53-73		0
1	The potential role of adherence factors in probiotic function in the gastrointestinal tract of adults and pediatrics: a narrative review of experimental and human studies. <b>2022</b> , 14,		0