Nuno Cerca

List of Publications by Year
in descending order

123 papers	5,329 citations	94433 37 h-index	98798 67 g-index
128 all docs	128 docs citations	128 times ranked	5996 citing authors

#	Article	IF	Citations
1	Critical review on biofilm methods. Critical Reviews in Microbiology, 2017, 43, 313-351.	6.1	693
2	Quantitative analysis of adhesion and biofilm formation on hydrophilic and hydrophobic surfaces of clinical isolates of Staphylococcus epidermidis. Research in Microbiology, 2005, 156, 506-514.	2.1	280
3	Molecular Aspects and Comparative Genomics of Bacteriophage Endolysins. Journal of Virology, 2013, 87, 4558-4570.	3.4	222
4	Comparative assessment of antibiotic susceptibility of coagulase-negative staphylococci in biofilm versus planktonic culture as assessed by bacterial enumeration or rapid XTT colorimetry. Journal of Antimicrobial Chemotherapy, 2005, 56, 331-336.	3.0	211
5	Influence of Biofilm Formation by<i>Gardnerella vaginalis</i>and Other Anaerobes on Bacterial Vaginosis. Journal of Infectious Diseases, 2015, 212, 1856-1861.	4.0	184
6	Comparative Antibody-Mediated Phagocytosis of Staphylococcus epidermidis Cells Grown in a Biofilm or in the Planktonic State. Infection and Immunity, 2006, 74, 4849-4855.	2.2	165
7	An Updated Conceptual Model on the Pathogenesis of Bacterial Vaginosis. Journal of Infectious Diseases, 2019, 220, 1399-1405.	4.0	154
8	Bacterial Vaginosis Biofilms: Challenges to Current Therapies and Emerging Solutions. Frontiers in Microbiology, 2015, 6, 1528.	3.5	125
9	Susceptibility of Staphylococcus epidermidis planktonic cells and biofilms to the lytic action of staphylococcus bacteriophage K. Letters in Applied Microbiology, 2007, 45, 313-317.	2.2	113
10	Molecular Basis for Preferential Protective Efficacy of Antibodies Directed to the Poorly Acetylated Form of Staphylococcal Poly- N -Acetyl-Î²-(1-6)-Glucosamine. Infection and Immunity, 2007, 75, 3406-3413.	2.2	108
11	Using an in-vitro biofilm model to assess the virulence potential of Bacterial Vaginosis or non-Bacterial Vaginosis Gardnerella vaginalis isolates. Scientific Reports, 2015, 5, 11640.	3.3	107
12	Unveiling the role of <i>Gardnerella vaginalis</i> in polymicrobial Bacterial Vaginosis biofilms: the impact of other vaginal pathogens living as neighbors. ISME Journal, 2019, 13, 1306-1317.	9.8	105
13	Comparative genomics of Lactobacillus crispatus suggests novel mechanisms for the competitive exclusion of Gardnerella vaginalis. BMC Genomics, 2014, 15, 1070.	2.8	101
14	Interactions between Lactobacillus crispatus and Bacterial Vaginosis (BV)-Associated Bacterial Species in Initial Attachment and Biofilm Formation. International Journal of Molecular Sciences, 2013, 14, 12004-12012.	4.1	100
15	Development of a Phage Cocktail to Control Proteus mirabilis Catheter-associated Urinary Tract Infections. Frontiers in Microbiology, 2016, 7, 1024.	3.5	100
16	Gardnerella vaginalis Outcompetes 29 Other Bacterial Species Isolated From Patients With Bacterial Vaginosis, Using in an In Vitro Biofilm Formation Model. Journal of Infectious Diseases, 2014, 210, 593-596.	4.0	95
17	Bacterial biofilms in the vagina. Research in Microbiology, 2017, 168, 865-874.	2.1	84
18	Protection against Escherichia coli infection by antibody to the Staphylococcus aureus poly-N-acetylglucosamine surface polysaccharide. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7528-7533.	7.1	74

#	ARTICLE	IF	CITATIONS
19	Effects of Growth in the Presence of Subinhibitory Concentrations of Dicloxacillin on Staphylococcus epidermidis and Staphylococcus haemolyticus Biofilms. Applied and Environmental Microbiology, 2005, 71, 8677-8682.	3.1	67
20	Comparative transcriptomic analysis of Gardnerella vaginalis biofilms vs. planktonic cultures using RNA-seq. Npj Biofilms and Microbiomes, 2017, 3, 3.	6.4	66
21	The relationship between inhibition of bacterial adhesion to a solid surface by sub-MICs of antibiotics and subsequent development of a biofilm. Research in Microbiology, 2005, 156, 650-655.	2.1	63
22	Effect of growth conditions on poly-N-acetylglucosamine expression and biofilm formation in Escherichia coli. FEMS Microbiology Letters, 2008, 283, 36-41.	1.8	63
23	Reciprocal Interference between <i>Lactobacillus</i> spp. and <i>Gardnerella vaginalis </i>on Initial Adherence to Epithelial Cells. International Journal of Medical Sciences, 2013, 10, 1193-1198.	2.5	61
24	Isolation and characterization of a new Staphylococcus epidermidis broad-spectrum bacteriophage. Journal of General Virology, 2014, 95, 506-515.	2.9	59
25	Regulation of the Intercellular Adhesin Locus Regulator (<i>icaR</i>) by SarA, Ïƒ ^B , and IcaR in <i>Staphylococcus aureus</i>. Journal of Bacteriology, 2008, 190, 6530-6533.	2.2	58
26	Staphylococcus epidermidis biofilms with higher proportions of dormant bacteria induce a lower activation of murine macrophages. Journal of Medical Microbiology, 2011, 60, 1717-1724.	1.8	55
27	SYBR green as a fluorescent probe to evaluate the biofilm physiological state of <i>Staphylococcus epidermidis</i>, using flow cytometry. Canadian Journal of Microbiology, 2011, 57, 850-856.	1.7	49
28	<i>Gardnerella</i> and vaginal health: the truth is out there. FEMS Microbiology Reviews, 2020, 44, 73-105.	8.6	49
29	Silver(I) Coordination Polymers Immobilized into Biopolymer Films for Antimicrobial Applications. ACS Applied Materials & Interfaces, 2021, 13, 12836-12844.	8.0	49
30	Confocal laser scanning microscopy analysis of S. epidermidis biofilms exposed to farnesol, vancomycin and rifampicin. BMC Research Notes, 2012, 5, 244.	1.4	46
31	Optimization of an automatic counting system for the quantification of <i>Staphylococcus epidermidis</i> cells in biofilms. Journal of Basic Microbiology, 2014, 54, 750-757.	3.3	46
32	Compositional Analysis of Biofilms Formed by Staphylococcus aureus Isolated from Food Sources. Frontiers in Microbiology, 2016, 7, 390.	3.5	45
33	Fluorescence in situ Hybridization method using Peptide Nucleic Acid probes for rapid detection of Lactobacillus and Gardnerella spp.. BMC Microbiology, 2013, 13, 82.	3.3	44
34	Optimizing a qPCR Gene Expression Quantification Assay for S. epidermidis Biofilms: A Comparison between Commercial Kits and a Customized Protocol. PLoS ONE, 2012, 7, e37480.	2.5	42
35	Genetic Heterogeneity and Taxonomic Diversity among Gardnerella Species. Trends in Microbiology, 2020, 28, 202-211.	7.7	41
36	Effect of Farnesol on Structure and Composition of Staphylococcus epidermidis Biofilm Matrix. Current Microbiology, 2011, 63, 354-359.	2.2	38

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37	Staphylococcus epidermidis is largely dependent on iron availability to form biofilms. International Journal of Medical Microbiology, 2017, 307, 552-563.	3.6	38
38	Gardnerella vaginalis Enhances Atopobium vaginae Viability in an in vitro Model. Frontiers in Cellular and Infection Microbiology, 2020, 10, 83.	3.9	38
39	Influence of batch or fed-batch growth on Staphylococcus epidermidis biofilm formation. Letters in Applied Microbiology, 2004, 39, 420-424.	2.2	37
40	<i>Listeria monocytogenes</i>and<i>Salmonella enterica</i>Enteritidis Biofilms Susceptibility to Different Disinfectants and Stress-Response and Virulence Gene Expression of Surviving Cells. Microbial Drug Resistance, 2011, 17, 181-189.	2.0	37
41	Staphylococcus aureus immunodominant surface antigen B is a cell-surface associated nucleic acid binding protein. BMC Microbiology, 2009, 9, 61.	3.3	35
42	Comparison of RNA extraction methods from biofilm samples of Staphylococcus epidermidis. BMC Research Notes, 2011, 4, 572.	1.4	34
43	Fluorescence in situ hybridization method using a peptide nucleic acid probe for identification of Lactobacillus spp. in milk samples. International Journal of Food Microbiology, 2013, 162, 64-70.	4.7	30
44	Comparative evaluation of coagulase-negative staphylococci (CoNS) adherence to acrylic by a static method and a parallel-plate flow dynamic method. Research in Microbiology, 2004, 155, 755-760.	2.1	29
45	Atopobium vaginae and Prevotella bivia Are Able to Incorporate and Influence Gene Expression in a Pre-Formed Gardnerella vaginalis Biofilm. Pathogens, 2021, 10, 247.	2.8	29
46	Characterization of an in vitro fed-batch model to obtain cells released from S. epidermidis biofilms. AMB Express, 2016, 6, 23.	3.0	27
47	Lactobacillus crispatus represses vaginolysin expression by BV associated Gardnerella vaginalis and reduces cell cytotoxicity. Anaerobe, 2018, 50, 60-63.	2.1	27
48	Biofilm Formation of Multidrug-Resistant MRSA Strains Isolated from Different Types of Human Infections. Pathogens, 2021, 10, 970.	2.8	27
49	Quantitative analysis of initial adhesion of bacterial vaginosis-associated anaerobes to ME-180 cells. Anaerobe, 2013, 23, 1-4.	2.1	26
50	Evidence for inter- and intraspecies biofilm formation variability among a small group of coagulase-negative staphylococci. FEMS Microbiology Letters, 2015, 362, fnv175.	1.8	26
51	Dormancy within Staphylococcus epidermidis biofilms: a transcriptomic analysis by RNA-seq. Applied Microbiology and Biotechnology, 2014, 98, 2585-2596.	3.6	25
52	RNA-based qPCR as a tool to quantify and to characterize dual-species biofilms. Scientific Reports, 2019, 9, 13639.	3.3	25
53	Strong enhancement of second harmonic generation in 2-methyl-4-nitroaniline nanofibers. Nanoscale, 2012, 4, 4978.	5.6	24
54	Dormant bacteria within Staphylococcus epidermidis biofilms have low inflammatory properties and maintain tolerance to vancomycin and penicillin after entering planktonic growth. Journal of Medical Microbiology, 2014, 63, 1274-1283.	1.8	24

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55	BV and non-BV associated Gardnerella vaginalis establish similar synergistic interactions with other BV-associated microorganisms in dual-species biofilms. Anaerobe, 2015, 36, 56-59.	2.1	24
56	In silico vs in vitro analysis of primer specificity for the detection of Gardnerella vaginalis, Atopobium vaginae and Lactobacillus spp.. BMC Research Notes, 2012, 5, 637.	1.4	23
57	Alterations in the<i>Staphylococcus epidermidis</i>biofilm transcriptome following interaction with whole human blood. Pathogens and Disease, 2014, 70, 444-448.	2.0	23
58	Diagnosis of bacterial vaginosis by a new multiplex peptide nucleic acid fluorescence<i>in situ</i>hybridization method. PeerJ, 2015, 3, e780.	2.0	23
59	<i>Thymbra capitata</i> essential oil as potential therapeutic agent against <i>Gardnerella vaginalis</i> biofilm-related infections. Future Microbiology, 2017, 12, 407-416.	2.0	23
60	Comparative analysis between biofilm formation and gene expression in <i>Staphylococcus epidermidis</i> isolates. Future Microbiology, 2018, 13, 415-427.	2.0	23
61	Farnesol as Antibiotics Adjuvant in Staphylococcus epidermidis Control In Vitro. American Journal of the Medical Sciences, 2011, 341, 191-195.	1.1	22
62	<i>Escherichia coli</i>and<i>Enterococcus faecalis</i>are able to incorporate and enhance a pre-formed<i>Gardnerella vaginalis</i>biofilm. Pathogens and Disease, 2016, 74, ftw007.	2.0	22
63	Characterization of Staphylococcus epidermidis phage vB_SepS_SEP9 â€“ a unique member of the Siphoviridae family. Research in Microbiology, 2014, 165, 679-685.	2.1	21
64	The Protective Effect of Staphylococcus epidermidis Biofilm Matrix against Phage Predation. Viruses, 2020, 12, 1076.	3.3	21
65	Synergistic effects of carvacrol, Î±-terpinene, Î³-terpinene, Ï•cymene and linalool against Gardnerella species. Scientific Reports, 2022, 12, 4417.	3.3	21
66	Proteomic profile of dormancy within Staphylococcus epidermidis biofilms using iTRAQ and label-free strategies. Applied Microbiology and Biotechnology, 2015, 99, 2751-2762.	3.6	20
67	Bacterial-Bacterial Cell Interactions in Biofilms: Detection of Polysaccharide Intercellular Adhesins by Blotting and Confocal Microscopy. , 2006, 341, 119-126.		19
68	Monoclonal Antibody Raised against PNAG Has Variable Effects on Static S. epidermidis Biofilm Accumulation In Vitro. International Journal of Biological Sciences, 2013, 9, 518-520.	6.4	19
69	An immunoproteomic approach for characterization of dormancy within Staphylococcus epidermidis biofilms. Molecular Immunology, 2015, 65, 429-435.	2.2	19
70	Virulence Gene Expression byStaphylococcus epidermidisBiofilm Cells Exposed to Antibiotics. Microbial Drug Resistance, 2011, 17, 191-196.	2.0	18
71	Tetracycline and rifampicin induced a viable but nonculturable state in <i>Staphylococcus epidermidis</i> biofilms. Future Microbiology, 2018, 13, 27-36.	2.0	18
72	The Emerging Role of Iron Acquisition in Biofilm-Associated Infections. Trends in Microbiology, 2021, 29, 772-775.	7.7	18

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73	Rapid detection of urinary tract infections caused by Proteus spp. using PNA-FISH. European Journal of Clinical Microbiology and Infectious Diseases, 2013, 32, 781-786.	2.9	17
74	Assessment of Sep1virus interaction with stationary cultures by transcriptional and flow cytometry studies. FEMS Microbiology Ecology, 2018, 94, .	2.7	17
75	Controlled RNA contamination and degradation and its impact on qPCR gene expression in S. epidermidis biofilms. Journal of Microbiological Methods, 2013, 95, 195-200.	1.6	16
76	Farnesol induces cell detachment from established S. epidermidis biofilms. Journal of Antibiotics, 2013, 66, 255-258.	2.0	16
77	Sequence determinants for DNA packaging specificity in the S. aureus pathogenicity island SaPI1. Plasmid, 2014, 71, 8-15.	1.4	16
78	Staphylococcus epidermidis Biofilm-Released Cells Induce a Prompt and More Marked In vivo Inflammatory-Type Response than Planktonic or Biofilm Cells. Frontiers in Microbiology, 2016, 7, 1530.	3.5	16
79	Proteome signaturesâ€"how are they obtained and what do they teach us?. Applied Microbiology and Biotechnology, 2015, 99, 7417-7431.	3.6	15
80	Crystal Violet Staining Alone Is Not Adequate to Assess Synergism or Antagonism in Multi-Species Biofilms of Bacteria Associated With Bacterial Vaginosis. Frontiers in Cellular and Infection Microbiology, 2021, 11, 795797.	3.9	15
81	Optimization of culture conditions for Gardnerella vaginalis biofilm formation. Journal of Microbiological Methods, 2015, 118, 143-146.	1.6	14
82	Comparative proteomic and transcriptomic profile of Staphylococcus epidermidis biofilms grown in glucose-enriched medium. Talanta, 2015, 132, 705-712.	5.5	14
83	Gardnerella Vaginalis Dominates Multi-Species Biofilms in both Pre-Conditioned and Competitive In Vitro Biofilm Formation Models. Microbial Ecology, 2022, 84, 1278-1287.	2.8	14
84	Antibiotic resistance and biofilm formation ability among coagulase-negative staphylococci in healthy individuals from Portugal. Journal of Antibiotics, 2013, 66, 739-741.	2.0	13
85	Evaluation of different culture media to support in vitro growth and biofilm formation of bacterial vaginosis-associated anaerobes. PeerJ, 2020, 8, e9917.	2.0	13
86	Assessing and reducing sources of gene expression variability in <i>Staphylococcus epidermidis</i> biofilms. BioTechniques, 2014, 57, 295-301.	1.8	12
87	Plasma is the main regulator of<i>Staphylococcus epidermidis</i>biofilms virulence genes transcription in human blood. Pathogens and Disease, 2016, 74, ftv125.	2.0	12
88	Innate immune components affect growth and virulence traits of bacterial-vaginosis-associated and non-bacterial-vaginosis-associated<i>Gardnerella vaginalis</i>strains similarly. Pathogens and Disease, 2018, 76, .	2.0	12
89	Dequalinium Chloride Effectively Disrupts Bacterial Vaginosis (BV) Gardnerella spp. Biofilms. Pathogens, 2021, 10, 261.	2.8	12
90	Prevalence of bacterial vaginosis in Portuguese pregnant women and vaginal colonization by<i>Gardnerella vaginalis</i>. PeerJ, 2017, 5, e3750.	2.0	12

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91	<i>In vitro</i> interactions within a biofilm containing three species found in bacterial vaginosis (BV) support the higher antimicrobial tolerance associated with BV recurrence. Journal of Antimicrobial Chemotherapy, 2022, 77, 2183-2190.	3.0	12
92	Carvacrol is highly disruptive against coagulase-negative staphylococci inin vitrobiofilms. Future Microbiology, 2017, 12, 1487-1496.	2.0	11
93	Self-assembling of Boc-p-nitro-L-phenylalanyl-p-nitro-L-phenylalanine and Boc-L-phenylalanyl-L-tyrosine in solution and into piezoelectric electrospun fibers. Materials Advances, 0, , .	5.4	11
94	Influence of Sub-Inhibitory Concentrations of Antimicrobial Agents on Biofilm Formation in Indwelling Medical Devices. International Journal of Artificial Organs, 2005, 28, 1181-1185.	1.4	10
95	Influence of anaerobic conditions on vaginal microbiota recovery from bacterial vaginosis patients. Sexually Transmitted Infections, 2013, 89, 307-307.	1.9	10
96	Viable but nonâ€cultivable state: a strategy for <scp><i>Staphylococcus aureus</i></scp> survivable in dualâ€species biofilms with <scp><i>Pseudomonas aeruginosa</i></scp>?. Environmental Microbiology, 2021, 23, 5639-5649.	3.8	10
97	Six Bacterial Vaginosis-Associated Species Can Form an In Vitro and Ex Vivo Polymicrobial Biofilm That Is Susceptible to Thymbra capitata Essential Oil. Frontiers in Cellular and Infection Microbiology, 2022, 12, .	3.9	10
98	Modulation of polyâ€<i>N</i>â€acetylglucosamine accumulation within mature <i>Staphylococcus epidermidis</i> biofilms grown in excess glucose. Microbiology and Immunology, 2011, 55, 673-682.	1.4	9
99	Variability of RNA Quality Extracted from Biofilms of Foodborne Pathogens Using Different Kits Impacts mRNA Quantification by qPCR. Current Microbiology, 2012, 65, 54-59.	2.2	9
100	Poly- <i>N</i> -Acetylglucosamine Production by Staphylococcus epidermidis Cells Increases Their <i>In Vivo</i> Proinflammatory Effect. Infection and Immunity, 2016, 84, 2933-2943.	2.2	9
101	Fighting Staphylococcus epidermidis Biofilm-Associated Infections: Can Iron Be the Key to Success?. Frontiers in Cellular and Infection Microbiology, 2021, 11, 798563.	3.9	9
102	Polymicrobial infections and biofilms in women's health. Research in Microbiology, 2017, 168, 902-904.	2.1	8
103	Transcriptomic Analysis of Staphylococcus epidermidis Biofilm-Released Cells upon Interaction with Human Blood Circulating Immune Cells and Soluble Factors. Frontiers in Microbiology, 2016, 7, 1143.	3.5	7
104	Involvement of the Iron-Regulated Loci <i>hts</i> and <i>fhuC</i> in Biofilm Formation and Survival of Staphylococcus epidermidis within the Host. Microbiology Spectrum, 2022, 10, e0216821.	3.0	7
105	Cells released from<i>S. epidermidis</i>biofilms present increased antibiotic tolerance to multiple antibiotics. PeerJ, 2019, 7, e6884.	2.0	6
106	A New PNA-FISH Probe Targeting Fannyhessea vaginae. Frontiers in Cellular and Infection Microbiology, 2021, 11, 779376.	3.9	6
107	Accurate qPCR quantification in polymicrobial communities requires assessment of gDNA extraction efficiency. Journal of Microbiological Methods, 2022, 194, 106421.	1.6	6
108	Prevalence ofGardnerella vaginalisandAtopobium vaginaein Portuguese women and association with risk factors for bacterial vaginosis. International Journal of Gynecology and Obstetrics, 2014, 124, 178-179.	2.3	5

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109	Multiplex Peptide Nucleic Acid Fluorescence In Situ Hybridization (PNA-FISH) for Diagnosis of Bacterial Vaginosis. Methods in Molecular Biology, 2017, 1616, 209-219.	0.9	5
110	Siderophore-Mediated Iron Acquisition Plays a Critical Role in Biofilm Formation and Survival of Staphylococcus epidermidis Within the Host. Frontiers in Medicine, 2021, 8, 799227.	2.6	5
111	Hybrid Silver(I)-Doped Soybean Oil and Potato Starch Biopolymer Films to Combat Bacterial Biofilms. ACS Applied Materials & Interfaces, 2022, 14, 25104-25114.	8.0	5
112	Exploiting the Anti-Biofilm Effect of the Engineered Phage Endolysin PM-477 to Disrupt In Vitro Single- and Dual-Species Biofilms of Vaginal Pathogens Associated with Bacterial Vaginosis. Antibiotics, 2022, 11, 558.	3.7	4
113	Immunoreactive pattern of <i>Staphylococcus epidermidis</i> biofilm against human whole saliva. Electrophoresis, 2015, 36, 1228-1233.	2.4	3
114	Could targeting neighboring bacterial populations help combat bacterial vaginosis?. Future Microbiology, 2019, 14, 365-368.	2.0	3
115	New silver (thio)semicarbazide derivatives: synthesis, structural features, and antimicrobial activity. New Journal of Chemistry, 2020, 44, 10924-10932.	2.8	3
116	codY and pdhA Expression Is Induced in Staphylococcus epidermidis Biofilm and Planktonic Populations With Higher Proportions of Viable but Non-Culturable Cells. Frontiers in Cellular and Infection Microbiology, 2021, 11, 771666.	3.9	3
117	Thymbra capitata essential oil has a significant antimicrobial activity against methicillinâ€resistant Staphylococcus aureus preâ€formed biofilms. Letters in Applied Microbiology, 2022, , .	2.2	3
118	Optimizing a reliable ex vivo human blood model to analyze expression of <i>Staphylococcus epidermidis</i> genes. PeerJ, 2020, 8, e9295.	2.0	2
119	Addressing the challenges with bacterial vaginosis pharmacotherapy. Expert Opinion on Pharmacotherapy, 2023, 24, 11-13.	1.8	2
120	Doctor's perception on bacterial vaginosis in Portugal: prevalence, diagnostic methods and choice of treatment. Sexually Transmitted Infections, 2012, 88, 421-421.	1.9	1
121	Postdoc rights need not hurt productivity. Nature, 2016, 532, 441-441.	27.8	1
122	Research problems in Portugal run deep. Nature, 2014, 507, 431-431.	27.8	0
123	mazEF Homologue Has a Minor Role in Staphylococcus epidermidis 1457 Virulence Potential. Frontiers in Cellular and Infection Microbiology, 2021, 11, 803134.	3.9	0