Nuno Cerca

List of Publications by Year
in descending order

123 papers	5,329 citations	108046 37 h-index	111975 67 g-index
128 all docs	128 docs citations	128 times ranked	6519 citing authors

#	Article	IF	Citations
1	Addressing the challenges with bacterial vaginosis pharmacotherapy. Expert Opinion on Pharmacotherapy, 2023, 24, 11-13.	0.9	2
2	Gardnerella Vaginalis Dominates Multi-Species Biofilms in both Pre-Conditioned and Competitive In Vitro Biofilm Formation Models. Microbial Ecology, 2022, 84, 1278-1287.	1.4	14
3	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.	1.2	7
4	Accurate qPCR quantification in polymicrobial communities requires assessment of gDNA extraction efficiency. Journal of Microbiological Methods, 2022, 194, 106421.	0.7	6
5	Thymbra capitata essential oil has a significant antimicrobial activity against methicillinâ€resistant Staphylococcus aureus preâ€formed biofilms. Letters in Applied Microbiology, 2022, , .	1.0	3
6	Synergistic effects of carvacrol, Î±-terpinene, Î³-terpinene, Ï•cymene and linalool against Gardnerella species. Scientific Reports, 2022, 12, 4417.	1.6	21
7	<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.	1.3	12
8	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.	1.5	4
9	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, .	1.8	10
10	Hybrid Silver(I)-Doped Soybean Oil and Potato Starch Biopolymer Films to Combat Bacterial Biofilms. ACS Applied Materials & Interfaces, 2022, 14, 25104-25114.	4.0	5
11	Dequalinium Chloride Effectively Disrupts Bacterial Vaginosis (BV) Gardnerella spp. Biofilms. Pathogens, 2021, 10, 261.	1.2	12
12	Atopobium vaginae and Prevotella bivia Are Able to Incorporate and Influence Gene Expression in a Pre-Formed Gardnerella vaginalis Biofilm. Pathogens, 2021, 10, 247.	1.2	29
13	Silver(I) Coordination Polymers Immobilized into Biopolymer Films for Antimicrobial Applications. ACS Applied Materials & Interfaces, 2021, 13, 12836-12844.	4.0	49
14	Biofilm Formation of Multidrug-Resistant MRSA Strains Isolated from Different Types of Human Infections. Pathogens, 2021, 10, 970.	1.2	27
15	The Emerging Role of Iron Acquisition in Biofilm-Associated Infections. Trends in Microbiology, 2021, 29, 772-775.	3.5	18
16	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.	1.8	10
17	Fighting Staphylococcus epidermidis Biofilm-Associated Infections: Can Iron Be the Key to Success?. Frontiers in Cellular and Infection Microbiology, 2021, 11, 798563.	1.8	9
18	A New PNA-FISH Probe Targeting Fannyhessea vaginae. Frontiers in Cellular and Infection Microbiology, 2021, 11, 779376.	1.8	6

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19	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.	1.8	3
20	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.	1.8	15
21	mazEF Homologue Has a Minor Role in Staphylococcus epidermidis 1457 Virulence Potential. Frontiers in Cellular and Infection Microbiology, 2021, 11, 803134.	1.8	0
22	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.	1.2	5
23	<i>Gardnerella</i> and vaginal health: the truth is out there. FEMS Microbiology Reviews, 2020, 44, 73-105.	3.9	49
24	Genetic Heterogeneity and Taxonomic Diversity among Gardnerella Species. Trends in Microbiology, 2020, 28, 202-211.	3.5	41
25	The Protective Effect of Staphylococcus epidermidis Biofilm Matrix against Phage Predation. Viruses, 2020, 12, 1076.	1.5	21
26	New silver (thio)semicarbazide derivatives: synthesis, structural features, and antimicrobial activity. New Journal of Chemistry, 2020, 44, 10924-10932.	1.4	3
27	Gardnerella vaginalis Enhances Atopobium vaginae Viability in an in vitro Model. Frontiers in Cellular and Infection Microbiology, 2020, 10, 83.	1.8	38
28	Evaluation of different culture media to support in vitro growth and biofilm formation of bacterial vaginosis-associated anaerobes. PeerJ, 2020, 8, e9917.	0.9	13
29	Optimizing a reliable ex vivo human blood model to analyze expression of <i>Staphylococcus epidermidis</i> genes. PeerJ, 2020, 8, e9295.	0.9	2
30	An Updated Conceptual Model on the Pathogenesis of Bacterial Vaginosis. Journal of Infectious Diseases, 2019, 220, 1399-1405.	1.9	154
31	RNA-based qPCR as a tool to quantify and to characterize dual-species biofilms. Scientific Reports, 2019, 9, 13639.	1.6	25
32	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.	4.4	105
33	Could targeting neighboring bacterial populations help combat bacterial vaginosis?. Future Microbiology, 2019, 14, 365-368.	1.0	3
34	Cells released from<i>S. epidermidis</i>biofilms present increased antibiotic tolerance to multiple antibiotics. PeerJ, 2019, 7, e6884.	0.9	6
35	Comparative analysis between biofilm formation and gene expression in <i>Staphylococcus epidermidis</i> isolates. Future Microbiology, 2018, 13, 415-427.	1.0	23
36	Lactobacillus crispatus represses vaginolysin expression by BV associated Gardnerella vaginalis and reduces cell cytotoxicity. Anaerobe, 2018, 50, 60-63.	1.0	27

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37	Tetracycline and rifampicin induced a viable but nonculturable state in <i>Staphylococcus epidermidis</i> biofilms. Future Microbiology, 2018, 13, 27-36.	1.0	18
38	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, .	0.8	12
39	Assessment of Sep1virus interaction with stationary cultures by transcriptional and flow cytometry studies. FEMS Microbiology Ecology, 2018, 94, .	1.3	17
40	Bacterial biofilms in the vagina. Research in Microbiology, 2017, 168, 865-874.	1.0	84
41	Comparative transcriptomic analysis of Gardnerella vaginalis biofilms vs. planktonic cultures using RNA-seq. Npj Biofilms and Microbiomes, 2017, 3, 3.	2.9	66
42	Multiplex Peptide Nucleic Acid Fluorescence In Situ Hybridization (PNA-FISH) for Diagnosis of Bacterial Vaginosis. Methods in Molecular Biology, 2017, 1616, 209-219.	0.4	5
43	<i>Thymbra capitata</i> essential oil as potential therapeutic agent against <i>Gardnerella vaginalis</i> biofilm-related infections. Future Microbiology, 2017, 12, 407-416.	1.0	23
44	Staphylococcus epidermidis is largely dependent on iron availability to form biofilms. International Journal of Medical Microbiology, 2017, 307, 552-563.	1.5	38
45	Polymicrobial infections and biofilms in women's health. Research in Microbiology, 2017, 168, 902-904.	1.0	8
46	Carvacrol is highly disruptive against coagulase-negative staphylococci inin vitrobiofilms. Future Microbiology, 2017, 12, 1487-1496.	1.0	11
47	Critical review on biofilm methods. Critical Reviews in Microbiology, 2017, 43, 313-351.	2.7	693
48	Prevalence of bacterial vaginosis in Portuguese pregnant women and vaginal colonization by<i>Gardnerella vaginalis</i>. PeerJ, 2017, 5, e3750.	0.9	12
49	Compositional Analysis of Biofilms Formed by Staphylococcus aureus Isolated from Food Sources. Frontiers in Microbiology, 2016, 7, 390.	1.5	45
50	Development of a Phage Cocktail to Control Proteus mirabilis Catheter-associated Urinary Tract Infections. Frontiers in Microbiology, 2016, 7, 1024.	1.5	100
51	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.	1.5	7
52	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.	1.5	16
53	Postdoc rights need not hurt productivity. Nature, 2016, 532, 441-441.	13.7	1
54	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.	1.0	9

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55	Characterization of an in vitro fed-batch model to obtain cells released from S. epidermidis biofilms. AMB Express, 2016, 6, 23.	1.4	27
56	<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.	0.8	22
57	Plasma is the main regulator of<i>Staphylococcus epidermidis</i>biofilms virulence genes transcription in human blood. Pathogens and Disease, 2016, 74, ftv125.	0.8	12
58	Diagnosis of bacterial vaginosis by a new multiplex peptide nucleic acid fluorescence<i>in situ</i>hybridization method. PeerJ, 2015, 3, e780.	0.9	23
59	Proteomic profile of dormancy within Staphylococcus epidermidis biofilms using iTRAQ and label-free strategies. Applied Microbiology and Biotechnology, 2015, 99, 2751-2762.	1.7	20
60	Proteome signaturesâ€"how are they obtained and what do they teach us?. Applied Microbiology and Biotechnology, 2015, 99, 7417-7431.	1.7	15
61	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.	1.6	107
62	Influence of Biofilm Formation by<i>Gardnerella vaginalis</i>and Other Anaerobes on Bacterial Vaginosis. Journal of Infectious Diseases, 2015, 212, 1856-1861.	1.9	184
63	An immunoproteomic approach for characterization of dormancy within Staphylococcus epidermidis biofilms. Molecular Immunology, 2015, 65, 429-435.	1.0	19
64	Immunoreactive pattern of <i>Staphylococcus epidermidis</i> biofilm against human whole saliva. Electrophoresis, 2015, 36, 1228-1233.	1.3	3
65	Optimization of culture conditions for Gardnerella vaginalis biofilm formation. Journal of Microbiological Methods, 2015, 118, 143-146.	0.7	14
66	Evidence for inter- and intraspecies biofilm formation variability among a small group of coagulase-negative staphylococci. FEMS Microbiology Letters, 2015, 362, fnv175.	0.7	26
67	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.	1.0	24
68	Comparative proteomic and transcriptomic profile of Staphylococcus epidermidis biofilms grown in glucose-enriched medium. Talanta, 2015, 132, 705-712.	2.9	14
69	Bacterial Vaginosis Biofilms: Challenges to Current Therapies and Emerging Solutions. Frontiers in Microbiology, 2015, 6, 1528.	1.5	125
70	Assessing and reducing sources of gene expression variability in <i>Staphylococcus epidermidis</i> biofilms. BioTechniques, 2014, 57, 295-301.	0.8	12
71	Comparative genomics of Lactobacillus crispatus suggests novel mechanisms for the competitive exclusion of Gardnerella vaginalis. BMC Genomics, 2014, 15, 1070.	1.2	101
72	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.	1.9	95

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73	Dormancy within Staphylococcus epidermidis biofilms: a transcriptomic analysis by RNA-seq. Applied Microbiology and Biotechnology, 2014, 98, 2585-2596.	1.7	25
74	Research problems in Portugal run deep. Nature, 2014, 507, 431-431.	13.7	0
75	Sequence determinants for DNA packaging specificity in the S. aureus pathogenicity island SaPI1. Plasmid, 2014, 71, 8-15.	0.4	16
76	Alterations in the<i>Staphylococcus epidermidis</i>biofilm transcriptome following interaction with whole human blood. Pathogens and Disease, 2014, 70, 444-448.	0.8	23
77	Prevalence ofGardnerella vaginalisandAtopobium vaginaein Portuguese women and association with risk factors for bacterial vaginosis. International Journal of Gynecology and Obstetrics, 2014, 124, 178-179.	1.0	5
78	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.	0.7	24
79	Isolation and characterization of a new Staphylococcus epidermidis broad-spectrum bacteriophage. Journal of General Virology, 2014, 95, 506-515.	1.3	59
80	Characterization of Staphylococcus epidermidis phage vB_SepS_SEP9 â€“ a unique member of the Siphoviridae family. Research in Microbiology, 2014, 165, 679-685.	1.0	21
81	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.	1.8	46
82	Fluorescence in situ Hybridization method using Peptide Nucleic Acid probes for rapid detection of Lactobacillus and Gardnerella spp.. BMC Microbiology, 2013, 13, 82.	1.3	44
83	Quantitative analysis of initial adhesion of bacterial vaginosis-associated anaerobes to ME-180 cells. Anaerobe, 2013, 23, 1-4.	1.0	26
84	Controlled RNA contamination and degradation and its impact on qPCR gene expression in S. epidermidis biofilms. Journal of Microbiological Methods, 2013, 95, 195-200.	0.7	16
85	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.	1.3	17
86	Antibiotic resistance and biofilm formation ability among coagulase-negative staphylococci in healthy individuals from Portugal. Journal of Antibiotics, 2013, 66, 739-741.	1.0	13
87	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.	2.1	30
88	Molecular Aspects and Comparative Genomics of Bacteriophage Endolysins. Journal of Virology, 2013, 87, 4558-4570.	1.5	222
89	Farnesol induces cell detachment from established S. epidermidis biofilms. Journal of Antibiotics, 2013, 66, 255-258.	1.0	16
90	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.	1.8	100

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91	Influence of anaerobic conditions on vaginal microbiota recovery from bacterial vaginosis patients. Sexually Transmitted Infections, 2013, 89, 307-307.	0.8	10
92	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.	1.1	61
93	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.	2.6	19
94	Doctor's perception on bacterial vaginosis in Portugal: prevalence, diagnostic methods and choice of treatment. Sexually Transmitted Infections, 2012, 88, 421-421.	0.8	1
95	Strong enhancement of second harmonic generation in 2-methyl-4-nitroaniline nanofibers. Nanoscale, 2012, 4, 4978.	2.8	24
96	Confocal laser scanning microscopy analysis of S. epidermidis biofilms exposed to farnesol, vancomycin and rifampicin. BMC Research Notes, 2012, 5, 244.	0.6	46
97	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.	0.6	23
98	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.	1.1	42
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.	1.0	9
100	Virulence Gene Expression byStaphylococcus epidermidisBiofilm Cells Exposed to Antibiotics. Microbial Drug Resistance, 2011, 17, 191-196.	0.9	18
101	Staphylococcus epidermidis biofilms with higher proportions of dormant bacteria induce a lower activation of murine macrophages. Journal of Medical Microbiology, 2011, 60, 1717-1724.	0.7	55
102	<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.	0.9	37
103	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.	0.8	49
104	Farnesol as Antibiotics Adjuvant in Staphylococcus epidermidis Control In Vitro. American Journal of the Medical Sciences, 2011, 341, 191-195.	0.4	22
105	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.	0.7	9
106	Effect of Farnesol on Structure and Composition of Staphylococcus epidermidis Biofilm Matrix. Current Microbiology, 2011, 63, 354-359.	1.0	38
107	Comparison of RNA extraction methods from biofilm samples of Staphylococcus epidermidis. BMC Research Notes, 2011, 4, 572.	0.6	34
108	Staphylococcus aureus immunodominant surface antigen B is a cell-surface associated nucleic acid binding protein. BMC Microbiology, 2009, 9, 61.	1.3	35

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109	Effect of growth conditions on poly-N-acetylglucosamine expression and biofilm formation in Escherichia coli. FEMS Microbiology Letters, 2008, 283, 36-41.	0.7	63
110	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.	1.0	58
111	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.	1.0	108
112	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.	3.3	74
113	Susceptibility of Staphylococcus epidermidis planktonic cells and biofilms to the lytic action of staphylococcus bacteriophage K. Letters in Applied Microbiology, 2007, 45, 313-317.	1.0	113
114	Bacterial-Bacterial Cell Interactions in Biofilms: Detection of Polysaccharide Intercellular Adhesins by Blotting and Confocal Microscopy. , 2006, 341, 119-126.		19
115	Comparative Antibody-Mediated Phagocytosis of Staphylococcus epidermidis Cells Grown in a Biofilm or in the Planktonic State. Infection and Immunity, 2006, 74, 4849-4855.	1.0	165
116	Influence of Sub-Inhibitory Concentrations of Antimicrobial Agents on Biofilm Formation in Indwelling Medical Devices. International Journal of Artificial Organs, 2005, 28, 1181-1185.	0.7	10
117	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.	1.3	211
118	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.	1.4	67
119	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.	1.0	280
120	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.	1.0	63
121	Influence of batch or fed-batch growth on Staphylococcus epidermidis biofilm formation. Letters in Applied Microbiology, 2004, 39, 420-424.	1.0	37
122	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.	1.0	29
123	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, , .	2.6	11