

Nuno Filipe Azevedo

List of Publications by Citations

Source: <https://exaly.com/author-pdf/413574/nuno-filipe-azevedo-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

120
papers

3,179
citations

31
h-index

52
g-index

131
ext. papers

3,900
ext. citations

4.9
avg, IF

5.4
L-index

#	Paper	IF	Citations
120	Critical review on biofilm methods. <i>Critical Reviews in Microbiology</i> , 2017 , 43, 313-351	7.8	454
119	Surface modifications for antimicrobial effects in the healthcare setting: a critical overview. <i>Journal of Hospital Infection</i> , 2018 , 99, 239-249	6.9	147
118	Discriminating multi-species populations in biofilms with peptide nucleic acid fluorescence in situ hybridization (PNA FISH). <i>PLoS ONE</i> , 2011 , 6, e14786	3.7	105
117	Anti-miRNA oligonucleotides: A comprehensive guide for design. <i>RNA Biology</i> , 2018 , 15, 338-352	4.8	90
116	Propidium iodide staining underestimates viability of adherent bacterial cells. <i>Scientific Reports</i> , 2019 , 9, 6483	4.9	84
115	DNA mimics for the rapid identification of microorganisms by fluorescence in situ hybridization (FISH). <i>International Journal of Molecular Sciences</i> , 2008 , 9, 1944-60	6.3	82
114	Cocoid form of <i>Helicobacter pylori</i> as a morphological manifestation of cell adaptation to the environment. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 3423-7	4.8	82
113	Detection of <i>Escherichia coli</i> in biofilms from pipe samples and coupons in drinking water distribution networks. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 7456-64	4.8	78
112	Persistence of <i>Helicobacter pylori</i> in heterotrophic drinking-water biofilms. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 5898-904	4.8	73
111	Antibiotic resistance of mixed biofilms in cystic fibrosis: impact of emerging microorganisms on treatment of infection. <i>International Journal of Antimicrobial Agents</i> , 2012 , 40, 260-3	14.3	72
110	The epidemiology of <i>Helicobacter pylori</i> and public health implications. <i>Helicobacter</i> , 2009 , 14 Suppl 1, 1-7	4.9	70
109	Pulsed laser deposition of copper and zinc doped hydroxyapatite coatings for biomedical applications. <i>Surface and Coatings Technology</i> , 2018 , 333, 168-177	4.4	64
108	Fluorescence in situ hybridization method using a peptide nucleic acid probe for identification of <i>Salmonella</i> spp. in a broad spectrum of samples. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 4476-85	4.8	63
107	Nanomaterials and molecular transporters to overcome the bacterial envelope barrier: Towards advanced delivery of antibiotics. <i>Advanced Drug Delivery Reviews</i> , 2018 , 136-137, 28-48	18.5	58
106	Shear stress, temperature, and inoculation concentration influence the adhesion of water-stressed <i>Helicobacter pylori</i> to stainless steel 304 and polypropylene. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 2936-41	4.8	58
105	Detection of <i>Salmonella enterica</i> serovar Enteritidis using real time PCR, immunocapture assay, PNA FISH and standard culture methods in different types of food samples. <i>International Journal of Food Microbiology</i> , 2013 , 161, 16-22	5.8	53
104	Survival of gastric and enterohepatic <i>Helicobacter</i> spp. in water: implications for transmission. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 1805-11	4.8	53

103	Eco-friendly non-biocide-release coatings for marine biofouling prevention. <i>Science of the Total Environment</i> , 2019 , 650, 2499-2511	10.2	51
102	Development and application of a novel peptide nucleic acid probe for the specific detection of <i>Helicobacter pylori</i> in gastric biopsy specimens. <i>Journal of Clinical Microbiology</i> , 2007 , 45, 3089-94	9.7	50
101	Adhesion of water stressed <i>Helicobacter pylori</i> to abiotic surfaces. <i>Journal of Applied Microbiology</i> , 2006 , 101, 718-24	4.7	50
100	Validation of SYTO 9/propidium iodide uptake for rapid detection of viable but noncultivable <i>Legionella pneumophila</i> . <i>Microbial Ecology</i> , 2009 , 58, 56-62	4.4	47
99	Impact of polymicrobial biofilms in catheter-associated urinary tract infections. <i>Critical Reviews in Microbiology</i> , 2017 , 43, 423-439	7.8	44
98	Development and application of a novel peptide nucleic acid probe for the specific detection of <i>Cronobacter genomospecies</i> (<i>Enterobacter sakazakii</i>) in powdered infant formula. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 2925-30	4.8	43
97	Biofilm formation with mixed cultures of <i>Pseudomonas aeruginosa</i> / <i>Escherichia coli</i> on silicone using artificial urine to mimic urinary catheters. <i>Biofouling</i> , 2013 , 29, 829-40	3.3	39
96	Nutrient shock and incubation atmosphere influence recovery of culturable <i>Helicobacter pylori</i> from water. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 490-3	4.8	36
95	Fluorescence in situ Hybridization method using Peptide Nucleic Acid probes for rapid detection of <i>Lactobacillus</i> and <i>Gardnerella</i> spp. <i>BMC Microbiology</i> , 2013 , 13, 82	4.5	35
94	A new model for the transmission of <i>Helicobacter pylori</i> : role of environmental reservoirs as gene pools to increase strain diversity. <i>Critical Reviews in Microbiology</i> , 2007 , 33, 157-69	7.8	35
93	Validation of a fluorescence in situ hybridization method using peptide nucleic acid probes for detection of <i>Helicobacter pylori</i> clarithromycin resistance in gastric biopsy specimens. <i>Journal of Clinical Microbiology</i> , 2013 , 51, 1887-93	9.7	34
92	Drinking water biofilm assessment of total and culturable bacteria under different operating conditions. <i>Biofouling</i> , 2006 , 22, 91-9	3.3	33
91	Hybridization-based detection of <i>Helicobacter pylori</i> at human body temperature using advanced locked nucleic acid (LNA) probes. <i>PLoS ONE</i> , 2013 , 8, e81230	3.7	32
90	Minimum information about a biofilm experiment (MIABiE): standards for reporting experiments and data on sessile microbial communities living at interfaces. <i>Pathogens and Disease</i> , 2014 , 70, 250-6	4.2	31
89	Interaction of <i>Legionella pneumophila</i> and <i>Helicobacter pylori</i> with bacterial species isolated from drinking water biofilms. <i>BMC Microbiology</i> , 2011 , 11, 57	4.5	31
88	Minimum information guideline for spectrophotometric and fluorometric methods to assess biofilm formation in microplates. <i>Biofilm</i> , 2020 , 2, 100010	5.9	31
87	Identification of pathogenic bacteria in complex samples using a smartphone based fluorescence microscope.. <i>RSC Advances</i> , 2018 , 8, 36493-36502	3.7	31
86	Detection of <i>Escherichia coli</i> O157 by peptide nucleic acid fluorescence in situ hybridization (PNA-FISH) and comparison to a standard culture method. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 6293-300	4.8	30

85	PNA-FISH as a new diagnostic method for the determination of clarithromycin resistance of <i>Helicobacter pylori</i> . <i>BMC Microbiology</i> , 2011 , 11, 101	4.5	27
84	The cystic fibrosis microbiome in an ecological perspective and its impact in antibiotic therapy. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 1163-1181	5.7	26
83	Optimization of a peptide nucleic acid fluorescence in situ hybridization (PNA-FISH) method for the detection of bacteria and disclosure of a formamide effect. <i>Journal of Biotechnology</i> , 2014 , 187, 16-24	3.7	26
82	Towards Fluorescence In Vivo Hybridization (FIVH) Detection of <i>H. pylori</i> in Gastric Mucosa Using Advanced LNA Probes. <i>PLoS ONE</i> , 2015 , 10, e0125494	3.7	25
81	Polymicrobial Ventilator-Associated Pneumonia: Fighting In Vitro <i>Candida albicans</i> - <i>Pseudomonas aeruginosa</i> Biofilms with Antifungal-Antibacterial Combination Therapy. <i>PLoS ONE</i> , 2017 , 12, e0170433	3.7	25
80	Discrimination of bacteriophage infected cells using locked nucleic acid fluorescent in situ hybridization (LNA-FISH). <i>Biofouling</i> , 2016 , 32, 179-90	3.3	24
79	Fluorescence in situ hybridization method using a peptide nucleic acid probe for identification of <i>Lactobacillus</i> spp. in milk samples. <i>International Journal of Food Microbiology</i> , 2013 , 162, 64-70	5.8	24
78	Effect of chlorine on incorporation of <i>Helicobacter pylori</i> into drinking water biofilms. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 1669-73	4.8	24
77	BioOmics: a Web platform for the systematic and standardized collection of high-throughput biofilm data. <i>PLoS ONE</i> , 2012 , 7, e39960	3.7	24
76	Mismatch discrimination in fluorescent in situ hybridization using different types of nucleic acids. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 3961-9	5.7	23
75	Emergent bacteria in cystic fibrosis: in vitro biofilm formation and resilience under variable oxygen conditions. <i>BioMed Research International</i> , 2014 , 2014, 678301	3	23
74	Interaction between atypical microorganisms and <i>E. coli</i> in catheter-associated urinary tract biofilms. <i>Biofouling</i> , 2014 , 30, 893-902	3.3	22
73	Relationship between invasion of the periodontium by periodontal pathogens and periodontal disease: a systematic review. <i>Virulence</i> , 2015 , 6, 208-15	4.7	22
72	Prediction of melting temperatures in fluorescence in situ hybridization (FISH) procedures using thermodynamic models. <i>Critical Reviews in Biotechnology</i> , 2016 , 36, 566-77	9.4	21
71	Microbiome in cystic fibrosis: Shaping polymicrobial interactions for advances in antibiotic therapy. <i>Critical Reviews in Microbiology</i> , 2015 , 41, 353-65	7.8	20
70	Quantitative assessment of individual populations within polymicrobial biofilms. <i>Scientific Reports</i> , 2018 , 8, 9494	4.9	20
69	Intracellular delivery of oligonucleotides in <i>Helicobacter pylori</i> by fusogenic liposomes in the presence of gastric mucus. <i>Biomaterials</i> , 2017 , 138, 1-12	15.6	19
68	Time to "go large" on biofilm research: advantages of an omics approach. <i>Biotechnology Letters</i> , 2009 , 31, 477-85	3	19

67	Development and application of Peptide Nucleic Acid Fluorescence in situ Hybridization for the specific detection of <i>Listeria monocytogenes</i> . <i>Food Microbiology</i> , 2019 , 80, 1-8	6	17
66	Detection and discrimination of biofilm populations using locked nucleic acid/2'-O-methyl-RNA fluorescence in situ hybridization (LNA/2'-OMe-FISH). <i>Biochemical Engineering Journal</i> , 2015 , 104, 64-73	4.2	16
65	Application of flow cytometry for the identification of <i>Staphylococcus epidermidis</i> by peptide nucleic acid fluorescence in situ hybridization (PNA FISH) in blood samples. <i>Antonie Van Leeuwenhoek</i> , 2011 , 100, 463-70	2.1	16
64	Application of locked nucleic acid-based probes in fluorescence in situ hybridization. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 5897-906	5.7	15
63	Optimization of peptide nucleic acid fluorescence in situ hybridization (PNA-FISH) for the detection of bacteria: The effect of pH, dextran sulfate and probe concentration. <i>Journal of Biotechnology</i> , 2016 , 226, 1-7	3.7	14
62	Influence of the fixation/permeabilization step on peptide nucleic acid fluorescence in situ hybridization (PNA-FISH) for the detection of bacteria. <i>PLoS ONE</i> , 2018 , 13, e0196522	3.7	14
61	Novel strategy to detect and locate periodontal pathogens: The PNA-FISH technique. <i>Microbiological Research</i> , 2016 , 192, 185-191	5.3	14
60	Applications of optical DNA mapping in microbiology. <i>BioTechniques</i> , 2017 , 62, 255-267	2.5	13
59	An in vitro model of catheter-associated urinary tract infections to investigate the role of uncommon bacteria on the <i>Escherichia coli</i> microbial consortium. <i>Biochemical Engineering Journal</i> , 2017 , 118, 64-69	4.2	12
58	Rapid detection of urinary tract infections caused by <i>Proteus</i> spp. using PNA-FISH. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2013 , 32, 781-6	5.3	12
57	Targeting miR-9 in gastric cancer cells using locked nucleic acid oligonucleotides. <i>BMC Molecular Biology</i> , 2018 , 19, 6	4.5	12
56	FISH and chips: a review of microfluidic platforms for FISH analysis. <i>Medical Microbiology and Immunology</i> , 2020 , 209, 373-391	4	11
55	Impact of <i>Delftia tsuruhatensis</i> and <i>Achromobacter xylosoxidans</i> on <i>Escherichia coli</i> dual-species biofilms treated with antibiotic agents. <i>Biofouling</i> , 2016 , 32, 227-41	3.3	11
54	Discriminating typical and atypical cystic fibrosis-related bacteria by multiplex PNA-FISH. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 355-367	4.9	11
53	Bioaccumulation of amylose-like glycans by <i>Helicobacter pylori</i> . <i>Helicobacter</i> , 2009 , 14, 559-70	4.9	11
52	Developing a model for cystic fibrosis sociomicrobiology based on antibiotic and environmental stress. <i>International Journal of Medical Microbiology</i> , 2017 , 307, 460-470	3.7	10
51	Optimizing locked nucleic acid/2'-O-methyl-RNA fluorescence in situ hybridization (LNA/2'-OMe-FISH) procedure for bacterial detection. <i>PLoS ONE</i> , 2019 , 14, e0217689	3.7	10
50	Proposal for a method to estimate nutrient shock effects in bacteria. <i>BMC Research Notes</i> , 2012 , 5, 422	2.3	10

49	It is all about location: how to pinpoint microorganisms and their functions in multispecies biofilms. <i>Future Microbiology</i> , 2017 , 12, 987-999	2.9	10
48	Fluorescence In Vivo Hybridization (FIVH) for Detection of Helicobacter pylori Infection in a C57BL/6 Mouse Model. <i>PLoS ONE</i> , 2016 , 11, e0148353	3.7	10
47	FISHji: New ImageJ macros for the quantification of fluorescence in epifluorescence images. <i>Biochemical Engineering Journal</i> , 2016 , 112, 61-69	4.2	10
46	Yeasts identification in microfluidic devices using peptide nucleic acid fluorescence in situ hybridization (PNA-FISH). <i>Biomedical Microdevices</i> , 2017 , 19, 11	3.7	9
45	Identification of cell-surface mannans in a virulent Helicobacter pylori strain. <i>Carbohydrate Research</i> , 2010 , 345, 830-8	2.9	9
44	Agent-based model of diffusion of N-acyl homoserine lactones in a multicellular environment of Pseudomonas aeruginosa and Candida albicans. <i>Biofouling</i> , 2018 , 34, 335-345	3.3	8
43	Computational resources and strategies to construct single-molecule metabolic models of microbial cells. <i>Briefings in Bioinformatics</i> , 2016 , 17, 863-76	13.4	8
42	Effect of Native Gastric Mucus on in vivo Hybridization Therapies Directed at Helicobacter pylori. <i>Molecular Therapy - Nucleic Acids</i> , 2015 , 4, e269	10.7	8
41	Environmental factors influencing molinate biodegradation by a two-member mixed culture in rice paddy field floodwater. <i>International Biodeterioration and Biodegradation</i> , 2012 , 72, 52-58	4.8	7
40	Enabling systematic, harmonised and large-scale biofilms data computation: the Biofilms Experiment Workbench. <i>Computer Methods and Programs in Biomedicine</i> , 2015 , 118, 309-21	6.9	6
39	Single Molecule Simulation of Diffusion and Enzyme Kinetics. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 3809-20	3.4	6
38	Antimicrobial coating innovations to prevent infectious disease: a consensus view from the AMICL COST Action. <i>Journal of Hospital Infection</i> , 2020 , 105, 116-118	6.9	6
37	Agent-based spatiotemporal simulation of biomolecular systems within the open source MASON framework. <i>BioMed Research International</i> , 2015 , 2015, 769471	3	5
36	Detection of Helicobacter pylori in the Gastric Mucosa by Fluorescence In Vivo Hybridization. <i>Methods in Molecular Biology</i> , 2017 , 1616, 137-146	1.4	4
35	Morphological transition of Helicobacter pylori adapted to water. <i>Future Microbiology</i> , 2017 , 12, 1167-1179	1.7	4
34	Increased Intraspecies Diversity in Biofilms Promotes Cellular Growth at the Expense of Matrix Production. <i>Antibiotics</i> , 2020 , 9,	4.9	4
33	Interlaboratory study for the evaluation of three microtiter plate-based biofilm quantification methods. <i>Scientific Reports</i> , 2021 , 11, 13779	4.9	4
32	Detection of Microorganisms by Fluorescence In Situ Hybridization Using Peptide Nucleic Acid. <i>Methods in Molecular Biology</i> , 2020 , 2105, 217-230	1.4	4

31	Computational approaches to standard-compliant biofilm data for reliable analysis and integration. <i>Journal of Integrative Bioinformatics</i> , 2012 , 9, 57-68	3.8	3
30	infection: from standard to alternative treatment strategies. <i>Critical Reviews in Microbiology</i> , 2021 , 1-21	7.8	3
29	Application of agent-based modelling to assess single-molecule transport across the cell envelope of E. coli. <i>Computers in Biology and Medicine</i> , 2019 , 107, 218-226	7	2
28	A harmonised vocabulary for communicating and interchanging Biofilms experimental results. <i>Journal of Integrative Bioinformatics</i> , 2014 , 11, 32-47	3.8	2
27	Lipoplexes to Deliver Oligonucleotides in Gram-Positive and Gram-Negative Bacteria: Towards Treatment of Blood Infections. <i>Pharmaceutics</i> , 2021 , 13,	6.4	2
26	Validation of Biomode S.A. Probe4Cronobacter for the Identification of spp. <i>Journal of AOAC INTERNATIONAL</i> , 2019 , 102, 855-864	1.7	2
25	Helicobacter pylori lipopolysaccharide structural domains and their recognition by immune proteins revealed with carbohydrate microarrays. <i>Carbohydrate Polymers</i> , 2021 , 253, 117350	10.3	2
24	Delivery of Oligonucleotides into Bacteria by Fusogenic Liposomes. <i>Methods in Molecular Biology</i> , 2021 , 2246, 87-96	1.4	2
23	Response surface methodology to optimize peptide nucleic acid fluorescence in situ hybridization (PNA-FISH) in Saccharomyces cerevisiae. <i>LWT - Food Science and Technology</i> , 2017 , 80, 27-31	5.4	1
22	Water-induced modulation of Helicobacter pylori virulence properties. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2014 , 109, 414-9	2.6	1
21	Improving aptamer performance with nucleic acid mimics: de novo and post-SELEX approaches. <i>Trends in Biotechnology</i> , 2021 ,	15.1	1
20	BEW: Bioinformatics Workbench for Analysis of Biofilms Experimental Data. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 49-56	0.4	1
19	Biofilms vs. cities and humans vs. aliens - a tale of reproducibility in biofilms. <i>Trends in Microbiology</i> , 2021 , 29, 1062-1071	12.4	1
18	Computational resources and strategies to assess single-molecule dynamics of the translation process in S. cerevisiae. <i>Briefings in Bioinformatics</i> , 2021 , 22, 219-231	13.4	1
17	Friends with Benefits: An Inside Look of Periodontal Microbes Interactions Using Fluorescence In Situ Hybridization-Scoping Review. <i>Microorganisms</i> , 2021 , 9,	4.9	1
16	SARS-CoV-2 Diagnostics Based on Nucleic Acids Amplification: From Fundamental Concepts to Applications and Beyond.. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022 , 12, 799678	5.9	1
15	Computational approaches to standard-compliant biofilm data for reliable analysis and integration. <i>Journal of Integrative Bioinformatics</i> , 2012 , 9, 203	3.8	1
14	A comprehensive model for the diffusion and hybridization processes of nucleic acid probes in fluorescence in situ hybridization. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 3212-3223	4.9	0

13	A new colorimetric peptide nucleic acid-based assay for the specific detection of bacteria. <i>Future Microbiology</i> , 2014 , 9, 1131-42	2.9	○
12	Detection of Dehalococcoides spp. by peptide nucleic acid fluorescent in situ hybridization. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2014 , 24, 142-9	0.9	○
11	FISH Variants. <i>Methods in Molecular Biology</i> , 2021 , 2246, 17-33	1.4	○
10	An Introduction to Fluorescence in situ Hybridization in Microorganisms. <i>Methods in Molecular Biology</i> , 2021 , 2246, 1-15	1.4	○
9	Modelling aptamers with nucleic acid mimics (NAM): From sequence to three-dimensional docking.. <i>PLoS ONE</i> , 2022 , 17, e0264701	3.7	○
8	Prevalence and Diversity of and Staphylococcal Enterotoxins in Raw Milk From Northern Portugal.. <i>Frontiers in Microbiology</i> , 2022 , 13, 846653	5.7	○
7	Application of Agent-Based Modelling to Simulate Ribosome Translation. <i>Lecture Notes in Computer Science</i> , 2020 , 200-211	0.9	
6	A Systematic Approach to the Interrogation and Sharing of Standardised Biofilm Signatures. <i>Advances in Intelligent and Soft Computing</i> , 2012 , 113-120		
5	Designing an Ontology Tool for the Unification of Biofilms Data. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 41-48	0.4	
4	Integration of FISH and Microfluidics. <i>Methods in Molecular Biology</i> , 2021 , 2246, 249-261	1.4	
3	FISH in Food Samples. <i>Methods in Molecular Biology</i> , 2021 , 2246, 279-290	1.4	
2	Computational Resources and Strategies to Construct Single-Molecule Models of FISH. <i>Methods in Molecular Biology</i> , 2021 , 2246, 317-330	1.4	
1	An harmonised vocabulary for communicating and interchanging biofilms experimental results. <i>Journal of Integrative Bioinformatics</i> , 2014 , 11, 249	3.8	