

Nuno Filipe Azevedo

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.

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	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
119	Modelling aptamers with nucleic acid mimics (NAM): From sequence to three-dimensional docking.. <i>PLoS ONE</i> , 2022 , 17, e0264701	3.7	0
118	Prevalence and Diversity of and Staphylococcal Enterotoxins in Raw Milk From Northern Portugal.. <i>Frontiers in Microbiology</i> , 2022 , 13, 846653	5.7	0
117	Improving aptamer performance with nucleic acid mimics: de novo and post-SELEX approaches. <i>Trends in Biotechnology</i> , 2021 ,	15.1	1
116	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
115	Lipoplexes to Deliver Oligonucleotides in Gram-Positive and Gram-Negative Bacteria: Towards Treatment of Blood Infections. <i>Pharmaceutics</i> , 2021 , 13,	6.4	2
114	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
113	Computational resources and strategies to assess single-molecule dynamics of the translation process in <i>S. cerevisiae</i> . <i>Briefings in Bioinformatics</i> , 2021 , 22, 219-231	13.4	1
112	Integration of FISH and Microfluidics. <i>Methods in Molecular Biology</i> , 2021 , 2246, 249-261	1.4	
111	FISH Variants. <i>Methods in Molecular Biology</i> , 2021 , 2246, 17-33	1.4	0
110	FISH in Food Samples. <i>Methods in Molecular Biology</i> , 2021 , 2246, 279-290	1.4	
109	Delivery of Oligonucleotides into Bacteria by Fusogenic Liposomes. <i>Methods in Molecular Biology</i> , 2021 , 2246, 87-96	1.4	2
108	An Introduction to Fluorescence in situ Hybridization in Microorganisms. <i>Methods in Molecular Biology</i> , 2021 , 2246, 1-15	1.4	0
107	Interlaboratory study for the evaluation of three microtiter plate-based biofilm quantification methods. <i>Scientific Reports</i> , 2021 , 11, 13779	4.9	4
106	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
105	infection: from standard to alternative treatment strategies. <i>Critical Reviews in Microbiology</i> , 2021 , 1-21	7.8	3
104	Computational Resources and Strategies to Construct Single-Molecule Models of FISH. <i>Methods in Molecular Biology</i> , 2021 , 2246, 317-330	1.4	

103	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
102	FISH and chips: a review of microfluidic platforms for FISH analysis. <i>Medical Microbiology and Immunology</i> , 2020 , 209, 373-391	4	11
101	Application of Agent-Based Modelling to Simulate Ribosome Translation. <i>Lecture Notes in Computer Science</i> , 2020 , 200-211	0.9	
100	Minimum information guideline for spectrophotometric and fluorometric methods to assess biofilm formation in microplates. <i>Biofilm</i> , 2020 , 2, 100010	5.9	31
99	Increased Intraspecies Diversity in Biofilms Promotes Cellular Growth at the Expense of Matrix Production. <i>Antibiotics</i> , 2020 , 9,	4.9	4
98	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
97	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
96	Optimizing locked nucleic acid/2FO-methyl-RNA fluorescence in situ hybridization (LNA/2FOme-FISH) procedure for bacterial detection. <i>PLoS ONE</i> , 2019 , 14, e0217689	3.7	10
95	Propidium iodide staining underestimates viability of adherent bacterial cells. <i>Scientific Reports</i> , 2019 , 9, 6483	4.9	84
94	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
93	Validation of Biocode S.A. Probe4Cronobacter for the Identification of spp. <i>Journal of AOAC INTERNATIONAL</i> , 2019 , 102, 855-864	1.7	2
92	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
91	Eco-friendly non-biocide-release coatings for marine biofouling prevention. <i>Science of the Total Environment</i> , 2019 , 650, 2499-2511	10.2	51
90	Agent-based model of diffusion of N-acyl homoserine lactones in a multicellular environment of <i>Pseudomonas aeruginosa</i> and <i>Candida albicans</i> . <i>Biofouling</i> , 2018 , 34, 335-345	3.3	8
89	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
88	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
87	Anti-miRNA oligonucleotides: A comprehensive guide for design. <i>RNA Biology</i> , 2018 , 15, 338-352	4.8	90
86	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

85	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
84	Identification of pathogenic bacteria in complex samples using a smartphone based fluorescence microscope.. <i>RSC Advances</i> , 2018 , 8, 36493-36502	3.7	31
83	Targeting miR-9 in gastric cancer cells using locked nucleic acid oligonucleotides. <i>BMC Molecular Biology</i> , 2018 , 19, 6	4.5	12
82	Quantitative assessment of individual populations within polymicrobial biofilms. <i>Scientific Reports</i> , 2018 , 8, 9494	4.9	20
81	Response surface methodology to optimize peptide nucleic acid fluorescence in situ hybridization (PNA-FISH) in <i>Saccharomyces cerevisiae</i> . <i>LWT - Food Science and Technology</i> , 2017 , 80, 27-31	5.4	1
80	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
79	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
78	Detection of <i>Helicobacter pylori</i> in the Gastric Mucosa by Fluorescence In Vivo Hybridization. <i>Methods in Molecular Biology</i> , 2017 , 1616, 137-146	1.4	4
77	Impact of polymicrobial biofilms in catheter-associated urinary tract infections. <i>Critical Reviews in Microbiology</i> , 2017 , 43, 423-439	7.8	44
76	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
75	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
74	Morphological transition of <i>Helicobacter pylori</i> adapted to water. <i>Future Microbiology</i> , 2017 , 12, 1167-1179	7.9	4
73	Discriminating typical and atypical cystic fibrosis-related bacteria by multiplex PNA-FISH. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 355-367	4.9	11
72	Critical review on biofilm methods. <i>Critical Reviews in Microbiology</i> , 2017 , 43, 313-351	7.8	454
71	Applications of optical DNA mapping in microbiology. <i>BioTechniques</i> , 2017 , 62, 255-267	2.5	13
70	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
69	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
68	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

67	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
66	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
65	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
64	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
63	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
62	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
61	Fluorescence In Vivo Hybridization (FIVH) for Detection of <i>Helicobacter pylori</i> Infection in a C57BL/6 Mouse Model. <i>PLoS ONE</i> , 2016 , 11, e0148353	3.7	10
60	Single Molecule Simulation of Diffusion and Enzyme Kinetics. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 3809-20	3.4	6
59	FISHji: New ImageJ macros for the quantification of fluorescence in epifluorescence images. <i>Biochemical Engineering Journal</i> , 2016 , 112, 61-69	4.2	10
58	Novel strategy to detect and locate periodontal pathogens: The PNA-FISH technique. <i>Microbiological Research</i> , 2016 , 192, 185-191	5.3	14
57	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
56	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
55	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
54	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
53	Agent-based spatiotemporal simulation of biomolecular systems within the open source MASON framework. <i>BioMed Research International</i> , 2015 , 2015, 769471	3	5
52	Effect of Native Gastric Mucus on in vivo Hybridization Therapies Directed at <i>Helicobacter pylori</i> . <i>Molecular Therapy - Nucleic Acids</i> , 2015 , 4, e269	10.7	8
51	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
50	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

49	Interaction between atypical microorganisms and E. coli in catheter-associated urinary tract biofilms. <i>Biofouling</i> , 2014 , 30, 893-902	3.3	22
48	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
47	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
46	A harmonised vocabulary for communicating and interchanging Biofilms experimental results. <i>Journal of Integrative Bioinformatics</i> , 2014 , 11, 32-47	3.8	2
45	Water-induced modulation of Helicobacter pylori virulence properties. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2014 , 109, 414-9	2.6	1
44	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
43	A new colorimetric peptide nucleic acid-based assay for the specific detection of bacteria. <i>Future Microbiology</i> , 2014 , 9, 1131-42	2.9	0
42	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	0
41	BEW: Bioinformatics Workbench for Analysis of Biofilms Experimental Data. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 49-56	0.4	1
40	Designing an Ontology Tool for the Unification of Biofilms Data. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 41-48	0.4	
39	An harmonised vocabulary for communicating and interchanging biofilms experimental results. <i>Journal of Integrative Bioinformatics</i> , 2014 , 11, 249	3.8	
38	Biofilm formation with mixed cultures of Pseudomonas aeruginosa/Escherichia coli on silicone using artificial urine to mimic urinary catheters. <i>Biofouling</i> , 2013 , 29, 829-40	3.3	39
37	Fluorescence in situ Hybridization method using Peptide Nucleic Acid probes for rapid detection of Lactobacillus and Gardnerella spp. <i>BMC Microbiology</i> , 2013 , 13, 82	4.5	35
36	Rapid detection of urinary tract infections caused by Proteus spp. using PNA-FISH. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2013 , 32, 781-6	5.3	12
35	Detection of Salmonella enterica 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
34	Fluorescence in situ hybridization method using a peptide nucleic acid probe for identification of Lactobacillus spp. in milk samples. <i>International Journal of Food Microbiology</i> , 2013 , 162, 64-70	5.8	24
33	Detection of Escherichia coli 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
32	Validation of a fluorescence in situ hybridization method using peptide nucleic acid probes for detection of Helicobacter pylori clarithromycin resistance in gastric biopsy specimens. <i>Journal of Clinical Microbiology</i> , 2013 , 51, 1887-93	9.7	34

31	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
30	Proposal for a method to estimate nutrient shock effects in bacteria. <i>BMC Research Notes</i> , 2012 , 5, 422	2.3	10
29	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
28	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
27	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
26	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
25	A Systematic Approach to the Interrogation and Sharing of Standardised Biofilm Signatures. <i>Advances in Intelligent and Soft Computing</i> , 2012 , 113-120		
24	Computational approaches to standard-compliant biofilm data for reliable analysis and integration. <i>Journal of Integrative Bioinformatics</i> , 2012 , 9, 203	3.8	1
23	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
22	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
21	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
20	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
19	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
18	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
17	Identification of cell-surface mannans in a virulent <i>Helicobacter pylori</i> strain. <i>Carbohydrate Research</i> , 2010 , 345, 830-8	2.9	9
16	Development and application of a novel peptide nucleic acid probe for the specific detection of <i>Cronobacter</i> genomospecies (<i>Enterobacter sakazakii</i>) in powdered infant formula. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 2925-30	4.8	43
15	Time to "go large" on biofilm research: advantages of an omics approach. <i>Biotechnology Letters</i> , 2009 , 31, 477-85	3	19
14	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

13	The epidemiology of <i>Helicobacter pylori</i> and public health implications. <i>Helicobacter</i> , 2009 , 14 Suppl 1, 1-7	4.9	70
12	Bioaccumulation of amylose-like glycans by <i>Helicobacter pylori</i> . <i>Helicobacter</i> , 2009 , 14, 559-70	4.9	11
11	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
10	Persistence of <i>Helicobacter pylori</i> in heterotrophic drinking-water biofilms. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 5898-904	4.8	73
9	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
8	Coccoid 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
7	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
6	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
5	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
4	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
3	Drinking water biofilm assessment of total and culturable bacteria under different operating conditions. <i>Biofouling</i> , 2006 , 22, 91-9	3.3	33
2	Adhesion of water stressed <i>Helicobacter pylori</i> to abiotic surfaces. <i>Journal of Applied Microbiology</i> , 2006 , 101, 718-24	4.7	50
1	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