Lucia Fernandez

List of Publications by Year
in descending order

64 papers	4,435 citations	147801 31 h-index	123424 61 g-index
67 all docs	67 docs citations	67 times ranked	5893 citing authors

#	Article	IF	Citations
1	Systematic analysis of putative phage-phage interactions on minimum-sized phage cocktails. Scientific Reports, 2022, 12, 2458.	3.3	15
2	Combined use of bacteriocins and bacteriophages as food biopreservatives. A review. International Journal of Food Microbiology, 2022, 368, 109611.	4.7	21
3	Understanding the Mechanisms That Drive Phage Resistance in Staphylococci to Prevent Phage Therapy Failure. Viruses, 2022, 14, 1061.	3.3	15
4	Deletion of the amidase domain of endolysin LysRODI enhances antistaphylococcal activity in milk and during fresh cheese production. Food Microbiology, 2022, 107, 104067.	4.2	1
5	Environmental pH is a key modulator of <i>Staphylococcus aureus</i> biofilm development under predation by the virulent phage phiIPLA-RODI. ISME Journal, 2021, 15, 245-259.	9.8	6
6	The relationship between the phageome and human health: are bacteriophages beneficial or harmful microbes?. Beneficial Microbes, 2021, 12, 107-120.	2.4	7
7	Synergistic action of phage phiIPLA-RODI and lytic protein CHAPSH3b: a combination strategy to target Staphylococcus aureus biofilms. Npj Biofilms and Microbiomes, 2021, 7, 39.	6.4	34
8	Draft Genome Sequences of the Bap-Producing Strain Staphylococcus aureus V329 and Its Derived Phage-Resistant Mutant BIM-1. Microbiology Resource Announcements, 2021, 10, e0050021.	0.6	1
9	Gram-Positive Pneumonia: Possibilities Offered by Phage Therapy. Antibiotics, 2021, 10, 1000.	3.7	4
10	Design and Selection of Engineered Lytic Proteins With Staphylococcus aureus Decolonizing Activity. Frontiers in Microbiology, 2021, 12, 723834.	3.5	10
11	Staphylococcal Biofilms: Challenges and Novel Therapeutic Perspectives. Antibiotics, 2021, 10, 131.	3.7	65
12	Characterization of Clinical MRSA Isolates from Northern Spain and Assessment of Their Susceptibility to Phage-Derived Antimicrobials. Antibiotics, 2020, 9, 447.	3.7	12
13	BacteriÃ³fagos y endolisinas en la industria alimentaria. Arbor, 2020, 196, 544.	0.3	0
14	Developing Diagnostic and Therapeutic Approaches to Bacterial Infections for a New Era: Implications of Globalization. Antibiotics, 2020, 9, 916.	3.7	11
15	Encapsulation of the Antistaphylococcal Endolysin LysRODI in pH-Sensitive Liposomes. Antibiotics, 2020, 9, 242.	3.7	31
16	Phage Lytic Protein LysRODI Prevents Staphylococcal Mastitis in Mice. Frontiers in Microbiology, 2020, 11, 7.	3.5	28
17	Preliminary Assessment of Visible, Near-Infrared, and Short-Wavelengthâ€"Infrared Spectroscopy with a Portable Instrument for the Detection of Staphylococcus aureus Biofilms on Surfaces. Journal of Food Protection, 2019, 82, 1314-1319.	1.7	3
18	The Perfect Bacteriophage for Therapeutic Applicationsâ€"A Quick Guide. Antibiotics, 2019, 8, 126.	3.7	83

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19	Methicillin-Resistant Staphylococcus aureus in Hospitals: Latest Trends and Treatments Based on Bacteriophages. Journal of Clinical Microbiology, 2019, 57, .	3.9	58
20	Role of Bacteriophages in the Implementation of a Sustainable Dairy Chain. Frontiers in Microbiology, 2019, 10, 12.	3.5	19
21	Phage therapy: unexpected drawbacks to reach hospitals. Future Virology, 2019, 14, 779-782.	1.8	6
22	Phage or foe: an insight into the impact of viral predation on microbial communities. ISME Journal, 2018, 12, 1171-1179.	9.8	124
23	Are Phage Lytic Proteins the Secret Weapon To Kill <i>Staphylococcus aureus</i> ?. MBio, 2018, 9, .	4.1	98
24	Practical Method for Isolation of Phage Deletion Mutants. Methods and Protocols, 2018, 1, 6.	2.0	17
25	Comparative analysis of different preservation techniques for the storage of Staphylococcus phages aimed for the industrial development of phage-based antimicrobial products. PLoS ONE, 2018, 13, e0205728.	2.5	63
26	Analysis of Different Parameters Affecting Diffusion, Propagation and Survival of Staphylophages in Bacterial Biofilms. Frontiers in Microbiology, 2018, 9, 2348.	3.5	43
27	Strategies to Encapsulate the Staphylococcus aureus Bacteriophage phiIPLA-RODI. Viruses, 2018, 10, 495.	3.3	33
28	Study of the Interactions Between Bacteriophage phiIPLA-RODI and Four Chemical Disinfectants for the Elimination of Staphylococcus aureus Contamination. Viruses, 2018, 10, 103.	3.3	33
29	Lysogenization of Staphylococcus aureus RN450 by phages Ï•11 and Ï•80Î± leads to the activation of the SigB regulon. Scientific Reports, 2018, 8, 12662.	3.3	17
30	Application of Bacteriophages in the Agro-Food Sector: A Long Way Toward Approval. Frontiers in Cellular and Infection Microbiology, 2018, 8, 296.	3.9	78
31	Characterizing the Transcriptional Effects of Endolysin Treatment on Established Biofilms of Staphylococcus aureus. Bio-protocol, 2018, 8, e2891.	0.4	2
32	Applicability of commercial phage-based products against Listeria monocytogenes for improvement of food safety in Spanish dry-cured ham and food contact surfaces. Food Control, 2017, 73, 1474-1482.	5.5	57
33	Downregulation of Autolysin-Encoding Genes by Phage-Derived Lytic Proteins Inhibits Biofilm Formation in Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	27
34	The Behavior of Staphylococcus aureus Dual-Species Biofilms Treated with Bacteriophage phiIPLA-RODI Depends on the Accompanying Microorganism. Applied and Environmental Microbiology, 2017, 83, .	3.1	52
35	Bacteriophages in the Dairy Environment: From Enemies to Allies. Antibiotics, 2017, 6, 27.	3.7	51
36	Real-Time Assessment of Staphylococcus aureus Biofilm Disruption by Phage-Derived Proteins. Frontiers in Microbiology, 2017, 8, 1632.	3.5	27

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37	Antibiotic Resistance due to Reduced Uptake. , 2017, , 115-130.		4
38	Low-level predation by lytic phage philPLA-RODI promotes biofilm formation and triggers the stringent response in Staphylococcus aureus. Scientific Reports, 2017, 7, 40965.	3.3	51
39	Bacteriophages: The Enemies of Bad Bacteria Are Our Friends!. Frontiers for Young Minds, 2016, 4, .	0.8	2
40	Interconnection of post-transcriptional regulation: The RNA-binding protein Hfq is a novel target of the Lon protease in Pseudomonas aeruginosa. Scientific Reports, 2016, 6, 26811.	3.3	31
41	The Structure of a Type 3 Secretion System (T3SS) Ruler Protein Suggests a Molecular Mechanism for Needle Length Sensing. Journal of Biological Chemistry, 2016, 291, 1676-1691.	3.4	36
42	Bacterial biofilm development as a multicellular adaptation: antibiotic resistance and new therapeutic strategies. Current Opinion in Microbiology, 2013, 16, 580-589.	5.1	640
43	Characterization of the Polymyxin B Resistome of Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2013, 57, 110-119.	3.2	136
44	Adaptive and Mutational Resistance: Role of Porins and Efflux Pumps in Drug Resistance. Clinical Microbiology Reviews, 2013, 26, 163-163.	13.6	13
45	Inhibition of LpxC Protects Mice from Resistant Acinetobacter baumannii by Modulating Inflammation and Enhancing Phagocytosis. MBio, 2012, 3, .	4.1	126
46	The Two-Component System CprRS Senses Cationic Peptides and Triggers Adaptive Resistance in Pseudomonas aeruginosa Independently of ParRS. Antimicrobial Agents and Chemotherapy, 2012, 56, 6212-6222.	3.2	123
47	Phosphate Starvation Promotes Swarming Motility and Cytotoxicity of Pseudomonas aeruginosa. Applied and Environmental Microbiology, 2012, 78, 6762-6768.	3.1	106
48	Role of Intracellular Proteases in the Antibiotic Resistance, Motility, and Biofilm Formation of Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2012, 56, 1128-1132.	3.2	83
49	Complete Genome Sequences of Three Pseudomonas aeruginosa Isolates with Phenotypes of Polymyxin B Adaptation and Inducible Resistance. Journal of Bacteriology, 2012, 194, 529-530.	2.2	15
50	Adaptive and Mutational Resistance: Role of Porins and Efflux Pumps in Drug Resistance. Clinical Microbiology Reviews, 2012, 25, 661-681.	13.6	665
51	Construction and validation of a GFP-based vector for promoter expression analysis in the fish pathogen Flavobacterium psychrophilum. Gene, 2012, 497, 263-268.	2.2	18
52	The Lon Protease Is Essential for Full Virulence in Pseudomonas aeruginosa. PLoS ONE, 2012, 7, e49123.	2.5	83
53	The <i>pmrCAB</i> Operon Mediates Polymyxin Resistance in <i>Acinetobacter baumannii</i> ATCC 17978 and Clinical Isolates through Phosphoethanolamine Modification of Lipid A. Antimicrobial Agents and Chemotherapy, 2011, 55, 3743-3751.	3.2	261
54	Creeping baselines and adaptive resistance to antibiotics. Drug Resistance Updates, 2011, 14, 1-21.	14.4	163

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55	Involvement of an ATP-Dependent Protease, PA0779/AsrA, in Inducing Heat Shock in Response to Tobramycin in Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2011, 55, 1874-1882.	3.2	74
56	Adaptive Resistance to the â€œLast Hopeâ€•Antibiotics Polymyxin B and Colistin in <i>Pseudomonas aeruginosa</i> Is Mediated by the Novel Two-Component Regulatory System ParR-ParS. Antimicrobial Agents and Chemotherapy, 2010, 54, 3372-3382.	3.2	276
57	A Chromosomally Located<i>traHIJKCLMN</i>Operon Encoding a Putative Type IV Secretion System Is Involved in the Virulence of<i>Yersinia ruckeri</i>. Applied and Environmental Microbiology, 2009, 75, 937-945.	3.1	39
58	Spreading versus biomass production by colonies of the fish pathogen Flavobacterium psychrophilum: role of the nutrient concentration. International Microbiology, 2009, 12, 207-14.	2.4	24
59	The iron- and temperature-regulated haemolysin YhlA is a virulence factor of Yersinia ruckeri. Microbiology (United Kingdom), 2007, 153, 483-489.	1.8	58
60	Genes required for Lactococcus garvieae survival in a fish host. Microbiology (United Kingdom), 2007, 153, 3286-3294.	1.8	24
61	Molecular virulence mechanisms of the fish pathogen Yersinia ruckeri. Veterinary Microbiology, 2007, 125, 1-10.	1.9	66
62	Identification of Specific In Vivo-Induced (ivi) Genes in Yersinia ruckeri and Analysis of Ruckerbactin, a Catecholate Siderophore Iron Acquisition System. Applied and Environmental Microbiology, 2004, 70, 5199-5207.	3.1	82
63	In Vitro andIn Vivo Studies of the Yrp1 Protease from Yersinia ruckeri andIts Role in Protective Immunity against Enteric Red MouthDisease ofSalmonids. Applied and Environmental Microbiology, 2003, 69, 7328-7335.	3.1	36
64	Isolation and analysis of a protease gene with an ABC transport system in the fish pathogen Yersinia ruckeri: insertional mutagenesis and involvement in virulence a aThe GenBank accession numbers for the sequences reported in this paper are AJ318052 (yrp1) and AJ421517 (yrpDEF and inh).. Microbiology (United Kingdom), 2002, 148, 2233-2243.	1.8	36