

# Lucia Fernandez

## List of Publications by Year in descending order

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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	Adaptive and Mutational Resistance: Role of Porins and Efflux Pumps in Drug Resistance. <i>Clinical Microbiology Reviews</i> , 2012, 25, 661-681.	13.6	665
2	Bacterial biofilm development as a multicellular adaptation: antibiotic resistance and new therapeutic strategies. <i>Current Opinion in Microbiology</i> , 2013, 16, 580-589.	5.1	640
3	Adaptive Resistance to the “Last Hope” Antibiotics Polymyxin B and Colistin in <i>Pseudomonas aeruginosa</i> Is Mediated by the Novel Two-Component Regulatory System ParR-ParS. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 3372-3382.	3.2	276
4	The <i>pmrCAB</i> Operon Mediates Polymyxin Resistance in <i>Acinetobacter baumannii</i> ATCC 17978 and Clinical Isolates through Phosphoethanolamine Modification of Lipid A. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 3743-3751.	3.2	261
5	Creeping baselines and adaptive resistance to antibiotics. <i>Drug Resistance Updates</i> , 2011, 14, 1-21.	14.4	163
6	Characterization of the Polymyxin B Resistome of <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 110-119.	3.2	136
7	Inhibition of LpxC Protects Mice from Resistant <i>Acinetobacter baumannii</i> by Modulating Inflammation and Enhancing Phagocytosis. <i>MBio</i> , 2012, 3, .	4.1	126
8	Phage or foe: an insight into the impact of viral predation on microbial communities. <i>ISME Journal</i> , 2018, 12, 1171-1179.	9.8	124
9	The Two-Component System CprRS Senses Cationic Peptides and Triggers Adaptive Resistance in <i>Pseudomonas aeruginosa</i> Independently of ParRS. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 6212-6222.	3.2	123
10	Phosphate Starvation Promotes Swarming Motility and Cytotoxicity of <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2012, 78, 6762-6768.	3.1	106
11	Are Phage Lytic Proteins the Secret Weapon To Kill <i>Staphylococcus aureus</i> ?. <i>MBio</i> , 2018, 9, .	4.1	98
12	Role of Intracellular Proteases in the Antibiotic Resistance, Motility, and Biofilm Formation of <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 1128-1132.	3.2	83
13	The Lon Protease Is Essential for Full Virulence in <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2012, 7, e49123.	2.5	83
14	The Perfect Bacteriophage for Therapeutic Applications – A Quick Guide. <i>Antibiotics</i> , 2019, 8, 126.	3.7	83
15	Identification of Specific In Vivo-Induced ( <i>ivi</i> ) Genes in <i>Yersinia ruckeri</i> and Analysis of Ruckerbactin, a Catecholate Siderophore Iron Acquisition System. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5199-5207.	3.1	82
16	Application of Bacteriophages in the Agro-Food Sector: A Long Way Toward Approval. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 296.	3.9	78
17	Involvement of an ATP-Dependent Protease, PA0779/AsrA, in Inducing Heat Shock in Response to Tobramycin in <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 1874-1882.	3.2	74
18	Molecular virulence mechanisms of the fish pathogen <i>Yersinia ruckeri</i> . <i>Veterinary Microbiology</i> , 2007, 125, 1-10.	1.9	66

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19	Staphylococcal Biofilms: Challenges and Novel Therapeutic Perspectives. <i>Antibiotics</i> , 2021, 10, 131.	3.7	65
20	Comparative analysis of different preservation techniques for the storage of Staphylococcus phages aimed for the industrial development of phage-based antimicrobial products. <i>PLoS ONE</i> , 2018, 13, e0205728.	2.5	63
21	The iron- and temperature-regulated haemolysin YhIA is a virulence factor of <i>Yersinia ruckeri</i> . <i>Microbiology (United Kingdom)</i> , 2007, 153, 483-489.	1.8	58
22	Methicillin-Resistant <i>Staphylococcus aureus</i> in Hospitals: Latest Trends and Treatments Based on Bacteriophages. <i>Journal of Clinical Microbiology</i> , 2019, 57, .	3.9	58
23	Applicability of commercial phage-based products against <i>Listeria monocytogenes</i> for improvement of food safety in Spanish dry-cured ham and food contact surfaces. <i>Food Control</i> , 2017, 73, 1474-1482.	5.5	57
24	The Behavior of <i>Staphylococcus aureus</i> Dual-Species Biofilms Treated with Bacteriophage phiPLA-RODI Depends on the Accompanying Microorganism. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	52
25	Bacteriophages in the Dairy Environment: From Enemies to Allies. <i>Antibiotics</i> , 2017, 6, 27.	3.7	51
26	Low-level predation by lytic phage phiPLA-RODI promotes biofilm formation and triggers the stringent response in <i>Staphylococcus aureus</i> . <i>Scientific Reports</i> , 2017, 7, 40965.	3.3	51
27	Analysis of Different Parameters Affecting Diffusion, Propagation and Survival of Staphylophages in Bacterial Biofilms. <i>Frontiers in Microbiology</i> , 2018, 9, 2348.	3.5	43
28	A Chromosomally Located <i>traHIJKLMN</i> Operon Encoding a Putative Type IV Secretion System Is Involved in the Virulence of <i>Yersinia ruckeri</i> . <i>Applied and Environmental Microbiology</i> , 2009, 75, 937-945.	3.1	39
29	In Vitro and In Vivo Studies of the Yrp1 Protease from <i>Yersinia ruckeri</i> and Its Role in Protective Immunity against Enteric Red Mouth Disease of Salmonids. <i>Applied and Environmental Microbiology</i> , 2003, 69, 7328-7335.	3.1	36
30	The Structure of a Type 3 Secretion System (T3SS) Ruler Protein Suggests a Molecular Mechanism for Needle Length Sensing. <i>Journal of Biological Chemistry</i> , 2016, 291, 1676-1691.	3.4	36
31	Isolation and analysis of a protease gene with an ABC transport system in the fish pathogen <i>Yersinia ruckeri</i> : insertional mutagenesis and involvement in virulence. The GenBank accession numbers for the sequences reported in this paper are AJ318052 (yrp1) and AJ421517 (yrpDEF and inh).. <i>Microbiology (United Kingdom)</i> , 2002, 148, 2233-2243.	1.8	36
32	Synergistic action of phage phiPLA-RODI and lytic protein CHAPSH3b: a combination strategy to target <i>Staphylococcus aureus</i> biofilms. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 39.	6.4	34
33	Strategies to Encapsulate the <i>Staphylococcus aureus</i> Bacteriophage phiPLA-RODI. <i>Viruses</i> , 2018, 10, 495.	3.3	33
34	Study of the Interactions Between Bacteriophage phiPLA-RODI and Four Chemical Disinfectants for the Elimination of <i>Staphylococcus aureus</i> Contamination. <i>Viruses</i> , 2018, 10, 103.	3.3	33
35	Interconnection of post-transcriptional regulation: The RNA-binding protein Hfq is a novel target of the Lon protease in <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , 2016, 6, 26811.	3.3	31
36	Encapsulation of the Antistaphylococcal Endolysin LysRODI in pH-Sensitive Liposomes. <i>Antibiotics</i> , 2020, 9, 242.	3.7	31

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37	Phage Lytic Protein LysRODI Prevents Staphylococcal Mastitis in Mice. <i>Frontiers in Microbiology</i> , 2020, 11, 7.	3.5	28
38	Downregulation of Autolysin-Encoding Genes by Phage-Derived Lytic Proteins Inhibits Biofilm Formation in <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	27
39	Real-Time Assessment of <i>Staphylococcus aureus</i> Biofilm Disruption by Phage-Derived Proteins. <i>Frontiers in Microbiology</i> , 2017, 8, 1632.	3.5	27
40	Genes required for <i>Lactococcus garvieae</i> survival in a fish host. <i>Microbiology (United Kingdom)</i> , 2007, 153, 3286-3294.	1.8	24
41	Spreading versus biomass production by colonies of the fish pathogen <i>Flavobacterium psychrophilum</i> : role of the nutrient concentration. <i>International Microbiology</i> , 2009, 12, 207-14.	2.4	24
42	Combined use of bacteriocins and bacteriophages as food biopreservatives. A review. <i>International Journal of Food Microbiology</i> , 2022, 368, 109611.	4.7	21
43	Role of Bacteriophages in the Implementation of a Sustainable Dairy Chain. <i>Frontiers in Microbiology</i> , 2019, 10, 12.	3.5	19
44	Construction and validation of a GFP-based vector for promoter expression analysis in the fish pathogen <i>Flavobacterium psychrophilum</i> . <i>Gene</i> , 2012, 497, 263-268.	2.2	18
45	Practical Method for Isolation of Phage Deletion Mutants. <i>Methods and Protocols</i> , 2018, 1, 6.	2.0	17
46	Lysogenization of <i>Staphylococcus aureus</i> RN450 by phages $\phi$ 11 and $\phi$ 80 leads to the activation of the SigB regulon. <i>Scientific Reports</i> , 2018, 8, 12662.	3.3	17
47	Complete Genome Sequences of Three <i>Pseudomonas aeruginosa</i> Isolates with Phenotypes of Polymyxin B Adaptation and Inducible Resistance. <i>Journal of Bacteriology</i> , 2012, 194, 529-530.	2.2	15
48	Systematic analysis of putative phage-phage interactions on minimum-sized phage cocktails. <i>Scientific Reports</i> , 2022, 12, 2458.	3.3	15
49	Understanding the Mechanisms That Drive Phage Resistance in Staphylococci to Prevent Phage Therapy Failure. <i>Viruses</i> , 2022, 14, 1061.	3.3	15
50	Adaptive and Mutational Resistance: Role of Porins and Efflux Pumps in Drug Resistance. <i>Clinical Microbiology Reviews</i> , 2013, 26, 163-163.	13.6	13
51	Characterization of Clinical MRSA Isolates from Northern Spain and Assessment of Their Susceptibility to Phage-Derived Antimicrobials. <i>Antibiotics</i> , 2020, 9, 447.	3.7	12
52	Developing Diagnostic and Therapeutic Approaches to Bacterial Infections for a New Era: Implications of Globalization. <i>Antibiotics</i> , 2020, 9, 916.	3.7	11
53	Design and Selection of Engineered Lytic Proteins With <i>Staphylococcus aureus</i> Decolonizing Activity. <i>Frontiers in Microbiology</i> , 2021, 12, 723834.	3.5	10
54	The relationship between the phageome and human health: are bacteriophages beneficial or harmful microbes?. <i>Beneficial Microbes</i> , 2021, 12, 107-120.	2.4	7

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55	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
56	Phage therapy: unexpected drawbacks to reach hospitals. Future Virology, 2019, 14, 779-782.	1.8	6
57	Gram-Positive Pneumonia: Possibilities Offered by Phage Therapy. Antibiotics, 2021, 10, 1000.	3.7	4
58	Antibiotic Resistance due to Reduced Uptake. , 2017, , 115-130.		4
59	Preliminary Assessment of Visible, Near-Infrared, and Short-Wavelength Infrared Spectroscopy with a Portable Instrument for the Detection of <i>Staphylococcus aureus</i> Biofilms on Surfaces. Journal of Food Protection, 2019, 82, 1314-1319.	1.7	3
60	Bacteriophages: The Enemies of Bad Bacteria Are Our Friends!. Frontiers for Young Minds, 2016, 4, .	0.8	2
61	Characterizing the Transcriptional Effects of Endolysin Treatment on Established Biofilms of <i>Staphylococcus aureus</i> . Bio-protocol, 2018, 8, e2891.	0.4	2
62	Draft Genome Sequences of the Bap-Producing Strain <i>Staphylococcus aureus</i> V329 and Its Derived Phage-Resistant Mutant BIM-1. Microbiology Resource Announcements, 2021, 10, e0050021.	0.6	1
63	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
64	Bacteriófagos y endolisinas en la industria alimentaria. Arbor, 2020, 196, 544.	0.3	0