

# Carlos R Osorio

## List of Publications by Year in descending order

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77  
papers

2,611  
citations

147801

31  
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206112

48  
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78  
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docs citations

78  
times ranked

1966  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photobacterium damsela subsp. damsela, a bacterium pathogenic for marine animals and humans. <i>Frontiers in Microbiology</i> , 2013, 4, 283.	3.5	169
2	The emergence of <i>Vibrio</i> pathogens in Europe: ecology, evolution, and pathogenesis (Paris, 11 <sup>th</sup> -12 <sup>th</sup> ) <i>Trends in Microbiology</i> , 2000, 8, 136.	3.5	136
3	Identification of <i>Vibrio parahaemolyticus</i> from an outbreak associated with raw oyster consumption in Spain. <i>FEMS Microbiology Letters</i> , 2003, 226, 281-284.	1.8	117
4	16S rRNA Gene Sequence Analysis of <i>Photobacterium damsela</i> and Nested PCR Method for Rapid Detection of the Causative Agent of Fish Pasteurellosis. <i>Applied and Environmental Microbiology</i> , 1999, 65, 2942-2946.	3.1	94
5	A Region of the Transmembrane Regulatory Protein ToxR That Tethers the Transcriptional Activation Domain to the Cytoplasmic Membrane Displays Wide Divergence among <i>Vibrio</i> Species. <i>Journal of Bacteriology</i> , 2000, 182, 526-528.	2.2	90
6	Multiplex PCR assay for ureC and 16S rRNA genes clearly discriminates between both subspecies of <i>Photobacterium damsela</i> . <i>Diseases of Aquatic Organisms</i> , 2000, 40, 177-183.	1.0	86
7	The <i>Photobacterium damsela</i> subsp. <i>damsela</i> Hemolysins Damselysin and HlyA Are Encoded within a New Virulence Plasmid. <i>Infection and Immunity</i> , 2011, 79, 4617-4627.	2.2	73
8	Characterization of Heme Uptake Cluster Genes in the Fish Pathogen <i>Vibrio anguillarum</i> . <i>Journal of Bacteriology</i> , 2004, 186, 6159-6167.	2.2	71
9	Integrating Conjugative Elements as Vectors of Antibiotic, Mercury, and Quaternary Ammonium Compound Resistance in Marine Aquaculture Environments. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 2619-2626.	3.2	69
10	Two tonB Systems Function in Iron Transport in <i>Vibrio anguillarum</i> , but Only One Is Essential for Virulence. <i>Infection and Immunity</i> , 2004, 72, 7326-7329.	2.2	62
11	<i>Photobacterium damsela</i> subsp. <i>damsela</i> , an Emerging Fish Pathogen in the Black Sea: Evidence of a Multiclonal Origin. <i>Applied and Environmental Microbiology</i> , 2016, 82, 3736-3745.	3.1	61
12	Synergistic and Additive Effects of Chromosomal and Plasmid-Encoded Hemolysins Contribute to Hemolysis and Virulence in <i>Photobacterium damsela</i> subsp. <i>damsela</i> . <i>Infection and Immunity</i> , 2013, 81, 3287-3299.	2.2	60
13	Genomic and Functional Analysis of ICE <i>Pda</i> Spa1, a Fish-Pathogen-Derived SXT-Related Integrating Conjugative Element That Can Mobilize a Virulence Plasmid. <i>Journal of Bacteriology</i> , 2008, 190, 3353-3361.	2.2	58
14	Characterization of functional domains of the <i>Vibrio cholerae</i> virulence regulator ToxT. <i>Molecular Microbiology</i> , 2005, 58, 1143-1156.	2.5	53
15	Structure and Biosynthetic Assembly of Piscibactin, a Siderophore from <i>Photobacterium damsela</i> subsp. <i>piscicida</i> , Predicted from Genome Analysis. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 5693-5700.	2.4	49
16	A Transmissible Plasmid-Borne Pathogenicity Island Confers Piscibactin Biosynthesis in the Fish Pathogen <i>Photobacterium damsela</i> subsp. <i>piscicida</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 5867-5879.	3.1	48
17	A siderophore biosynthesis gene cluster from the fish pathogen <i>Photobacterium damsela</i> subsp. <i>piscicida</i> is structurally and functionally related to the <i>Yersinia</i> high-pathogenicity island. <i>Microbiology (United Kingdom)</i> , 2006, 152, 3327-3341.	1.8	46
18	A gene cluster involved in the biosynthesis of vanchrobactin, a chromosome-encoded siderophore produced by <i>Vibrio anguillarum</i> . <i>Microbiology (United Kingdom)</i> , 2006, 152, 3517-3528.	1.8	45

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19	Development of a PCR-based method for the detection of <i>Listonella anguillarum</i> in fish tissues and blood samples. <i>Diseases of Aquatic Organisms</i> , 2003, 55, 109-115.	1.0	44
20	Chromosome-Encoded Hemolysin, Phospholipase, and Collagenase in Plasmidless Isolates of <i>Photobacterium damsela</i> subsp. <i>damsela</i> Contribute to Virulence for Fish. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	44
21	<i>Photobacterium damsela</i> subsp. <i>damsela</i> , a Generalist Pathogen with Unique Virulence Factors and High Genetic Diversity. <i>Journal of Bacteriology</i> , 2018, 200, e00002-18.	2.2	44
22	<i>Photobacterium damsela</i> subsp. <i>damsela</i> Major Virulence Factors Dly, Plasmid-Encoded HlyA, and Chromosome-Encoded HlyA Are Secreted via the Type II Secretion System. <i>Infection and Immunity</i> , 2015, 83, 1246-1256.	2.2	42
23	Variation in 16S-23S rRNA Intergenic Spacer Regions in <i>Photobacterium damsela</i> : a Mosaic-Like Structure. <i>Applied and Environmental Microbiology</i> , 2005, 71, 636-645.	3.1	41
24	Anguibactin versus vanchrobactin mediated iron uptake in <i>Vibrio anguillarum</i> : evolution and ecology of a fish pathogen. <i>Environmental Microbiology Reports</i> , 2010, 2, 19-26.	2.4	41
25	Note: <i>Arthrobacter rhombi</i> sp. nov., isolated from Greenland halibut ( <i>Reinhardtius hippoglossoides</i> ). <i>International Journal of Systematic and Evolutionary Microbiology</i> , 1999, 49, 1217-1220.	1.7	40
26	Phobalysin, a Small $\beta$ -Pore-Forming Toxin of <i>Photobacterium damsela</i> subsp. <i>damsela</i> . <i>Infection and Immunity</i> , 2015, 83, 4335-4348.	2.2	40
27	Transcriptome changes in response to temperature in the fish pathogen <i>Photobacterium damsela</i> subsp. <i>damsela</i> : Clues to understand the emergence of disease outbreaks at increased seawater temperatures. <i>PLoS ONE</i> , 2018, 13, e0210118.	2.5	40
28	Integrating conjugative elements of the SXT/R391 family from fish-isolated <i>Vibrios</i> encode restriction-modification systems that confer resistance to bacteriophages. <i>FEMS Microbiology Ecology</i> , 2013, 83, 457-467.	2.7	39
29	Two Catechol Siderophores, Acinetobactin and Amonabactin, Are Simultaneously Produced by <i>Aeromonas salmonicida</i> subsp. <i>salmonicida</i> Sharing Part of the Biosynthetic Pathway. <i>ACS Chemical Biology</i> , 2015, 10, 2850-2860.	3.4	38
30	Synthesis and antibacterial activity of conjugates between norfloxacin and analogues of the siderophore vanchrobactin. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 295-302.	3.0	36
31	Identification of heme uptake genes in the fish pathogen <i>Aeromonas salmonicida</i> subsp. <i>salmonicida</i> . <i>Archives of Microbiology</i> , 2008, 190, 439-449.	2.2	35
32	Identification of Siderophore Biosynthesis Genes Essential for Growth of <i>Aeromonas salmonicida</i> under Iron Limitation Conditions. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2341-2348.	3.1	33
33	<i>rstB</i> Regulates Expression of the <i>Photobacterium damsela</i> subsp. <i>damsela</i> Major Virulence Factors Damselysin, Phobalysin P and Phobalysin C. <i>Frontiers in Microbiology</i> , 2017, 08, 582.	3.5	32
34	Biosynthetic and regulatory elements involved in the production of the siderophore vanchrobactin in <i>Vibrio anguillarum</i> . <i>Microbiology (United Kingdom)</i> , 2008, 154, 1400-1413.	1.8	30
35	Heme, an iron supply for vibrios pathogenic for fish. <i>BioMetals</i> , 2007, 20, 615-626.	4.1	29
36	Isolation of mutants of <i>Vibrio anguillarum</i> defective in haeme utilisation and cloning of <i>huvA</i> , a gene coding for an outer membrane protein involved in the use of haeme as iron source. <i>Archives of Microbiology</i> , 2003, 179, 329-338.	2.2	26

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37	Subtractive hybridization reveals a high genetic diversity in the fish pathogen <i>Photobacterium damsela</i> subsp. <i>piscicida</i> : evidence of a SXT-like element. <i>Microbiology (United Kingdom)</i> , 2005, 151, 2659-2669.	1.8	26
38	FvtA Is the Receptor for the Siderophore Vanchrobactin in <i>Vibrio anguillarum</i> : Utility as a Route of Entry for Vanchrobactin Analogues. <i>Applied and Environmental Microbiology</i> , 2009, 75, 2775-2783.	3.1	26
39	Evidence for horizontal gene transfer, gene duplication and genetic variation as driving forces of the diversity of haemolytic phenotypes in <i>Photobacterium damsela</i> subsp. <i>damsela</i> . <i>FEMS Microbiology Letters</i> , 2014, 355, 152-162.	1.8	26
40	Persistence of Antibiotic Resistant <i>Vibrio</i> spp. in Shellfish Hatchery Environment. <i>Microbial Ecology</i> , 2016, 72, 851-860.	2.8	26
41	A proteomic analysis of the iron response of <i>Photobacterium damsela</i> subsp. <i>damsela</i> reveals metabolic adaptations to iron levels changes and novel potential virulence factors. <i>Veterinary Microbiology</i> , 2017, 201, 257-264.	1.9	26
42	Presence of phospholipase-D ( <i>dly</i> ) gene coding for <i>damselysin</i> production is not a pre-requisite for pathogenicity in <i>Photobacterium damsela</i> subsp. <i>damsela</i> . <i>Microbial Pathogenesis</i> , 2000, 28, 119-126.	2.9	25
43	Molecular Epidemiology of <i>Photobacterium damsela</i> subsp. <i>damsela</i> Outbreaks in Marine Rainbow Trout Farms Reveals Extensive Horizontal Gene Transfer and High Genetic Diversity. <i>Frontiers in Microbiology</i> , 2018, 9, 2155.	3.5	24
44	Heme uptake genes in human and fish isolates of <i>Photobacterium damsela</i> : existence of <i>hutA</i> pseudogenes. <i>Archives of Microbiology</i> , 2005, 183, 347-358.	2.2	23
45	Applicability of Ribotyping for Intraspecific Classification and Epidemiological Studies of <i>Photobacterium damsela</i> subsp. <i>piscicida</i> . <i>Systematic and Applied Microbiology</i> , 1997, 20, 634-639.	2.8	22
46	Identification of iron regulated genes in the fish pathogen <i>Aeromonas salmonicida</i> subsp. <i>salmonicida</i> : Genetic diversity and evidence of conserved iron uptake systems. <i>Veterinary Microbiology</i> , 2009, 133, 377-382.	1.9	22
47	Secreted Citrate Serves as Iron Carrier for the Marine Pathogen <i>Photobacterium damsela</i> subsp. <i>damsela</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 361.	3.9	22
48	Transcriptional organization and regulation of the <i>Vibrio anguillarum</i> heme uptake gene cluster. <i>Gene</i> , 2006, 374, 68-76.	2.2	19
49	The Apoptogenic Toxin AIP56 Is Secreted by the Type II Secretion System of <i>Photobacterium damsela</i> subsp. <i>piscicida</i> . <i>Toxins</i> , 2017, 9, 368.	3.4	19
50	The RstAB System Impacts Virulence, Motility, Cell Morphology, Penicillin Tolerance and Production of Type II Secretion System-Dependent Factors in the Fish and Human Pathogen <i>Photobacterium damsela</i> subsp. <i>damsela</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 897.	3.5	17
51	Genetic Variability of the Heme Uptake System among Different Strains of the Fish Pathogen <i>Vibrio anguillarum</i> : Identification of a New Heme Receptor. <i>Applied and Environmental Microbiology</i> , 2005, 71, 8434-8441.	3.1	15
52	Genetic characterization of pAsa6, a new plasmid from <i>Aeromonas salmonicida</i> subsp. <i>salmonicida</i> that encodes a type III effector protein AopH homolog. <i>Plasmid</i> , 2009, 61, 176-181.	1.4	15
53	Genomic analysis of the marine fish pathogen <i>Photobacterium damsela</i> subsp. <i>piscicida</i> : Insertion sequences proliferation is associated with chromosomal reorganisations and rampant gene decay. <i>Infection, Genetics and Evolution</i> , 2017, 54, 221-229.	2.3	15
54	Identification of Fur regulated genes in the bacterial fish pathogen <i>Photobacterium damsela</i> ssp. <i>piscicida</i> using the Fur titration assay. <i>BioMetals</i> , 2004, 17, 725-733.	4.1	14

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55	Unveiling the pan-genome of the SXT/R391 family of ICEs: molecular characterisation of new variable regions of SXT/R391-like ICEs detected in <i>Pseudoalteromonas</i> sp. and <i>Vibrio scophthalmi</i> . <i>Antonie Van Leeuwenhoek</i> , 2016, 109, 1141-1152.	1.7	14
56	T3SS effectors in <i>Vibrios</i> : Homology in sequence, diversity in biological functions?. <i>Virulence</i> , 2018, 9, 721-723.	4.4	14
57	Assessment of a magnetic bead-EIA based kit for rapid diagnosis of fish pasteurellosis. <i>Journal of Microbiological Methods</i> , 1999, 38, 147-154.	1.6	12
58	Distribution of small plasmids in <i>Aeromonas salmonicida</i> subsp. <i>salmonicida</i> strains isolated from NW Spain and Portugal: evidence of clonality in strains isolated from turbot, <i>Psetta maxima</i> (L.). <i>Journal of Fish Diseases</i> , 2008, 31, 469-472.	1.9	12
59	Identification of the Ferric-Acinetobactin Outer Membrane Receptor in <i>Aeromonas salmonicida</i> subsp. <i>salmonicida</i> and Structure-Activity Relationships of Synthetic Acinetobactin Analogues. <i>ACS Chemical Biology</i> , 2017, 12, 479-493.	3.4	12
60	Cytotoxin- and Chemotaxis-Genes Cooperate to Promote Adhesion of <i>Photobacterium damsela</i> subsp. <i>damsela</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 2996.	3.5	12
61	A virulence gene typing scheme for <i>Photobacterium damsela</i> subsp. <i>piscicida</i> , the causative agent of fish photobacteriosis, reveals a high prevalence of plasmid-encoded virulence factors and of type III secretion system genes. <i>Aquaculture</i> , 2020, 521, 735057.	3.5	11
62	Exposure of the Opportunistic Marine Pathogen <i>Photobacterium damsela</i> subsp. <i>damsela</i> to Human Body Temperature Is a Stressful Condition That Shapes the Transcriptome, Viability, Cell Morphology, and Virulence. <i>Frontiers in Microbiology</i> , 2020, 11, 1771.	3.5	10
63	Genetic characterization of pPHDP60, a novel conjugative plasmid from the marine fish pathogen <i>Photobacterium damsela</i> subsp. <i>piscicida</i> . <i>Plasmid</i> , 2013, 70, 154-159.	1.4	9
64	Draft Genome Sequences of <i>Photobacterium damsela</i> subsp. <i>piscicida</i> SNW-8.1 and PP3, Two Fish-Isolated Strains Containing a Type III Secretion System. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	9
65	The ABC transporter <i>hutCD</i> genes of <i>Photobacterium damsela</i> subsp. <i>piscicida</i> are essential for haem utilization as iron source and are expressed during infection in fish. <i>Journal of Fish Diseases</i> , 2010, 33, 649-655.	1.9	8
66	Identification and characterisation of the <i>fur</i> genes in <i>Photobacterium damsela</i> ssp. <i>piscicida</i> and ssp. <i>damsela</i> . <i>Diseases of Aquatic Organisms</i> , 2004, 58, 151-156.	1.0	7
67	Application of suppressive subtractive hybridization to the identification of genetic differences between two <i>Lactococcus garvieae</i> strains showing distinct differences in virulence for rainbow trout and mouse. <i>Microbiology (United Kingdom)</i> , 2011, 157, 2106-2119.	1.8	6
68	Characterization of the 23S and 5S rRNA genes and 23S-5S intergenic spacer region (ITS-2) of <i>Photobacterium damsela</i> . <i>Diseases of Aquatic Organisms</i> , 2004, 61, 33-39.	1.0	5
69	Diverse Horizontally-Acquired Gene Clusters Confer Sucrose Utilization to Different Lineages of the Marine Pathogen <i>Photobacterium damsela</i> subsp. <i>damsela</i> . <i>Genes</i> , 2020, 11, 1244.	2.4	4
70	The two-component system <i>RstAB</i> regulates production of a polysaccharide capsule with a role in virulence in the marine pathogen <i>Photobacterium damsela</i> subsp. <i>damsela</i> . <i>Environmental Microbiology</i> , 2021, 23, 4859-4880.	3.8	4
71	<i>Photobacterium damsela</i> : How Horizontal Gene Transfer Shaped Two Different Pathogenic Lifestyles in a Marine Bacterium. , 2019, , 175-199.		4
72	First Report of <i>Streptomyces scabies</i> Causing Potato Common Scab in Punjab, Pakistan. <i>Plant Disease</i> , 2017, 101, 378.	1.4	4

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73	Highly Transferable pAQU-Related Plasmids Encoding Multidrug Resistance Are Widespread in the Human and Fish Pathogen <i>Photobacterium damsela</i> subsp. <i>damsela</i> in Aquaculture Areas in the Black Sea. <i>Microbial Ecology</i> , 2020, 80, 507-518.	2.8	3
74	A Secreted NlpC/P60 Endopeptidase from <i>Photobacterium damsela</i> subsp. <i>piscicida</i> Cleaves the Peptidoglycan of Potentially Competing Bacteria. <i>MSphere</i> , 2021, 6, .	2.9	3
75	First Report of <i>Streptomyces turgidiscabiei</i> and <i>S. stelliscabiei</i> Causing Potato Common Scab in Lahore Punjab, Pakistan. <i>Plant Disease</i> , 2016, 100, 2160-2160.	1.4	3
76	A Highly Unstable and Elusive Plasmid That Encodes the Type III Secretion System Is Necessary for Full Virulence in the Marine Fish Pathogen <i>Photobacterium damsela</i> subsp. <i>piscicida</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 4729.	4.1	2
77	The two-component system RstAB regulates production of a polysaccharide capsule with a role in virulence in the marine pathogen <i>Photobacterium damsela</i> subsp. <i>damsela</i> . <i>Environmental Microbiology Reports</i> , 2021, , .	2.4	0