Tom Defoirdt

List of Publications by Year
in descending order

97 papers	8,317 citations	61984 43 h-index	46799 89 g-index
99 all docs	99 docs citations	99 times ranked	6610 citing authors

#	Article	IF	Citations
1	Indole decreases the virulence of pathogenic vibrios belonging to the Harveyi clade. Journal of Applied Microbiology, 2022, 132, 167-176.	3.1	13
2	The impact of the multichannel quorum sensing systems of Vibrio tasmaniensis and Vibrio crassostreae on virulence towards blue mussel (Mytilus edulis) larvae. Aquaculture, 2022, 547, 737414.	3.5	8
3	Indole decreases the virulence of the bivalve model pathogens Vibrio tasmaniensis LGP32 and Vibrio crassostreae J2-9. Scientific Reports, 2022, 12, 5749.	3.3	4
4	Rearing water microbiomes in white leg shrimp (<scp>Litopenaeus vannamei</scp>) larviculture assemble stochastically and are influenced by the microbiomes of live feed products. Environmental Microbiology, 2021, 23, 281-298.	3.8	17
5	Probiotics: their action against pathogens can be turned around. Scientific Reports, 2021, 11, 13247.	3.3	4
6	One health pathogen surveillance demonstrated the dissemination of gut pathogens within the two coastal regions associated with intensive farming. Gut Pathogens, 2021, 13, 47.	3.4	4
7	Insights into a Pyruvate Sensing and Uptake System in Vibrio campbellii and Its Importance for Virulence. Journal of Bacteriology, 2021, 203, e0029621.	2.2	4
8	The blue mussel inside: 3D visualization and description of the vascular-related anatomy of Mytilus edulis to unravel hemolymph extraction. Scientific Reports, 2020, 10, 6773.	3.3	15
9	Amino acidâ€“derived quorum sensing molecules controlling the virulence of vibrios (and beyond). PLoS Pathogens, 2019, 15, e1007815.	4.7	15
10	Media Optimization, Strain Compatibility, and Low-Shear Modeled Microgravity Exposure of Synthetic Microbial Communities for Urine Nitrification in Regenerative Life-Support Systems. Astrobiology, 2019, 19, 1353-1362.	3.0	9
11	Vibrio parahaemolyticus and Vibrio harveyi causing Acute Hepatopancreatic Necrosis Disease (AHPND) in Penaeus vannamei (Boone, 1931) isolated from Malaysian shrimp ponds. Aquaculture, 2019, 511, 734227.	3.5	67
12	Quorum sensing is required for full virulence of Vibrio campbellii towards tiger grouper (Epinephelus fuscoguttatus) larvae. Journal of Fish Diseases, 2019, 42, 489-495.	1.9	19
13	Quorum-Sensing Systems as Targets for Antivirulence Therapy. Trends in Microbiology, 2018, 26, 313-328.	7.7	351
14	The impact of quorum sensing on the virulence ofVibrio anguillarumtowards gnotobiotic sea bass (Dicentrarchus labrax) larvae. Aquaculture Research, 2018, 49, 3686-3689.	1.8	5
15	Does quorum sensing interference affect the fitness of bacterial pathogens in the real world?. Environmental Microbiology, 2018, 20, 3918-3926.	3.8	15
16	Impact of the organic load on the efficacy of chlorine disinfection against acute hepatopancreatic necrosis diseaseâ€causing Vibrio parahaemolyticus. Journal of Fish Diseases, 2018, 41, 1609-1612.	1.9	3
17	Virulence-inhibitory activity of the degradation product 3-hydroxybutyrate explains the protective effect of poly-Î²-hydroxybutyrate against the major aquaculture pathogen Vibrio campbellii. Scientific Reports, 2018, 8, 7245.	3.3	15
18	Indole signalling and (micro)algal auxins decrease the virulence of <scp>V</scp>ibrio campbellii, a major pathogen of aquatic organisms. Environmental Microbiology, 2017, 19, 1987-2004.	3.8	39

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19	The impact of catecholamine sensing on the virulence of Vibrio parahaemolyticus causing acute hepatopancreatic necrosis disease (AHPND). Aquaculture, 2017, 470, 190-195.	3.5	11
20	Isolation of Vibrionaceae from wild blue mussel (Mytilus edulis) adults and their impact on blue mussel larviculture. FEMS Microbiology Ecology, 2017, 93, .	2.7	26
21	Ureolytic Activity and Its Regulation in Vibrio campbellii and Vibrio harveyi in Relation to Nitrogen Recovery from Human Urine. Environmental Science & Technology, 2017, 51, 13335-13343.	10.0	8
22	Bactericidal, quorum quenching and anti-biofilm nanofactories: a new niche for nanotechnologists. Critical Reviews in Biotechnology, 2017, 37, 525-540.	9.0	57
23	Photobacterium sanguinicancri sp. nov. isolated from marine animals. Antonie Van Leeuwenhoek, 2016, 109, 817-825.	1.7	24
24	Specific Antivirulence Activity, A New Concept for Reliable Screening of Virulence Inhibitors. Trends in Biotechnology, 2016, 34, 527-529.	9.3	13
25	Implications of Ecological Niche Differentiation in Marine Bacteria for Microbial Management in Aquaculture to Prevent Bacterial Disease. PLoS Pathogens, 2016, 12, e1005843.	4.7	17
26	Specific quorum sensing-disrupting activity (AQSI) of thiophenones and their therapeutic potential. Scientific Reports, 2015, 5, 18033.	3.3	31
27	The emergence of Vibrio pathogens in Europe: ecology, evolution, and pathogenesis (Paris, 11â€“12th) Tj ETQq1 1 0.784314 rgBT /Over	3.5	136
28	Expression and Quorum Sensing Regulation of Type III Secretion System Genes of Vibrio harveyi during Infection of Gnotobiotic Brine Shrimp. PLoS ONE, 2015, 10, e0143935.	2.5	26
29	Relation between virulence of Vibrio anguillarum strains and response to the host factors mucin, bile salts and cholesterol. Journal of Applied Microbiology, 2015, 119, 25-32.	3.1	3
30	The gnotobiotic brine shrimp (Artemia franciscana) model system reveals that the phenolic compound pyrogallol protects against infection through its prooxidant activity. Free Radical Biology and Medicine, 2015, 89, 593-601.	2.9	38
31	Isolation of AHL-degrading bacteria from micro-algal cultures and their impact on algal growth and on virulence of Vibrio campbellii to prawn larvae. Applied Microbiology and Biotechnology, 2015, 99, 10805-10813.	3.6	25
32	Impact of mucin, bile salts and cholesterol on the virulence of Vibrio anguillarum towards gnotobiotic sea bass (Dicentrarchus labrax) larvae. Veterinary Microbiology, 2015, 175, 44-49.	1.9	17
33	Quorum sensing positively regulates flagellar motility in pathogenic <scp>V</scp>ibrio harveyi. Environmental Microbiology, 2015, 17, 960-968.	3.8	118
34	Characterization of the virulence of Harveyi clade vibrios isolated from a shrimp hatchery in vitro and in vivo, in a brine shrimp (Artemia franciscana) model system. Aquaculture, 2015, 435, 28-32.	3.5	15
35	Norepinephrine and dopamine increase motility, biofilm formation, and virulence of Vibrio harveyi. Frontiers in Microbiology, 2014, 5, 584.	3.5	46
36	Early Mortality Syndrome Outbreaks: A Microbial Management Issue in Shrimp Farming?. PLoS Pathogens, 2014, 10, e1003919.	4.7	208

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37	Stimulation of heterotrophic bacteria associated with wild-caught blue mussel (Mytilus edulis) adults results in mass mortality. Aquaculture, 2014, 431, 136-138.	3.5	15
38	The catecholamine stress hormones norepinephrine and dopamine increase the virulence of pathogenicVibrio anguillarumandVibrio campbellii. FEMS Microbiology Ecology, 2014, 90, 761-769.	2.7	20
39	Bacillus sp. LT3 improves the survival of gnotobiotic brine shrimp (Artemia franciscana) larvae challenged with Vibrio campbellii by enhancing the innate immune response and by decreasing the activity of shrimp-associated vibrios. Veterinary Microbiology, 2014, 173, 279-288.	1.9	30
40	Host-induced increase in larval sea bass mortality in a gnotobiotic challenge test with Vibrio anguillarum. Diseases of Aquatic Organisms, 2014, 108, 211-216.	1.0	18
41	Significance of microalgalâ€“bacterial interactions for aquaculture. Reviews in Aquaculture, 2014, 6, 48-61.	9.0	159
42	Virulence mechanisms of bacterial aquaculture pathogens and antivirulence therapy for aquaculture. Reviews in Aquaculture, 2014, 6, 100-114.	9.0	73
43	RpoS and Indole Signaling Control the Virulence of Vibrio anguillarum towards Gnotobiotic Sea Bass (Dicentrarchus labrax) Larvae. PLoS ONE, 2014, 9, e111801.	2.5	34
44	Quorum sensing inhibitors: how strong is the evidence?. Trends in Microbiology, 2013, 21, 619-624.	7.7	150
45	The Vibrio campbellii quorum sensing signals have a different impact on virulence of the bacterium towards different crustacean hosts. Veterinary Microbiology, 2013, 167, 540-545.	1.9	25
46	Quorum sensing-disrupting compounds protect larvae of the giant freshwater prawn Macrobrachium rosenbergii from Vibrio harveyi infection. Aquaculture, 2013, 406-407, 121-124.	3.5	25
47	Microbiology and immunology of fish larvae. Reviews in Aquaculture, 2013, 5, S1.	9.0	122
48	Antivirulence Therapy for Animal Production: Filling an Arsenal with Novel Weapons for Sustainable Disease Control. PLoS Pathogens, 2013, 9, e1003603.	4.7	29
49	The Apparent Quorum-Sensing Inhibitory Activity of Pyrogallol Is a Side Effect of Peroxide Production. Antimicrobial Agents and Chemotherapy, 2013, 57, 2870-2873.	3.2	34
50	Monitoring of Vibrio harveyi quorum sensing activity in real time during infection of brine shrimp larvae. ISME Journal, 2012, 6, 2314-2319.	9.8	47
51	The impact of quorum sensing on the virulence of Aeromonas hydrophila and Aeromonas salmonicida towards burbot (Lota lota L.) larvae. Veterinary Microbiology, 2012, 159, 77-82.	1.9	59
52	Biofloc technology in aquaculture: Beneficial effects and future challenges. Aquaculture, 2012, 356-357, 351-356.	3.5	534
53	A method for the specific detection of resident bacteria in brine shrimp larvae. Journal of Microbiological Methods, 2012, 89, 33-37.	1.6	10
54	Effects of poly-Î²-hydroxybutyrate (PHB) on Siberian sturgeon (Acipenser baerii) fingerlings performance and its gastrointestinal tract microbial community. FEMS Microbiology Ecology, 2012, 79, 25-33.	2.7	69

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55	Pathogenesis, virulence factors and virulence regulation of vibrios belonging to the Harveyi clade. Reviews in Aquaculture, 2012, 4, 59-74.	9.0	117
56	Light and transmission electron microscopy of Vibrio campbellii infection in gnotobiotic Artemia franciscana and protection offered by a yeast mutant with elevated cell wall glucan. Veterinary Microbiology, 2012, 158, 337-343.	1.9	8
57	A Quorum Sensing-Disrupting Brominated Thiophenone with a Promising Therapeutic Potential to Treat Luminescent Vibriosis. PLoS ONE, 2012, 7, e41788.	2.5	46
58	N-acylhomoserine lactone-degrading Bacillus strains isolated from aquaculture animals. Aquaculture, 2011, 311, 258-260.	3.5	44
59	Effects of micro-algae commonly used in aquaculture on acyl-homoserine lactone quorum sensing. Aquaculture, 2011, 317, 53-57.	3.5	101
60	Alternatives to antibiotics for the control of bacterial disease in aquaculture. Current Opinion in Microbiology, 2011, 14, 251-258.	5.1	582
61	Quorum sensing regulation of virulence gene expression in Vibrio harveyi in vitro and in vivo during infection of gnotobiotic brine shrimp larvae. Environmental Microbiology Reports, 2011, 3, 597-602.	2.4	21
62	In vitro and in vivo expression of virulence genes in Vibrio isolates belonging to the Harveyi clade in relation to their virulence towards gnotobiotic brine shrimp (Artemia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 457 T	4.6	76
63	Expression of virulence genes in luminescent and nonluminescent isogenic vibrios and virulence towards gnotobiotic brine shrimp (Artemia franciscana). Journal of Applied Microbiology, 2011, 110, 399-406.	3.1	9
64	Can bacteria actively search to join groups?. ISME Journal, 2011, 5, 569-570.	9.8	8
65	Regulation of virulence factors by quorum sensing in Vibrio harveyi. Veterinary Microbiology, 2011, 154, 124-129.	1.9	113
66	Disruption of Bacterial Cell-to-Cell Communication by Marine Organisms and its Relevance to Aquaculture. Marine Biotechnology, 2011, 13, 109-126.	2.4	99
67	Long-chain acylhomoserine lactones increase the anoxic ammonium oxidation rate in an OLAND biofilm. Applied Microbiology and Biotechnology, 2011, 90, 1511-1519.	3.6	80
68	Quorum sensing negatively regulates chitinase in Vibrio harveyi. Environmental Microbiology Reports, 2010, 2, 44-49.	2.4	55
69	PHB-degrading bacteria isolated from the gastrointestinal tract of aquatic animals as protective actors against luminescent vibriosis. FEMS Microbiology Ecology, 2010, 74, 196-204.	2.7	51
70	Presence of typical and atypical virulence genes in vibrio isolates belonging to the Harveyi clade. Journal of Applied Microbiology, 2010, 109, 888-899.	3.1	61
71	Quorum quenching bacteria protect Macrobrachium rosenbergii larvae from Vibrio harveyi infection. Journal of Applied Microbiology, 2010, 109, 1007-1016.	3.1	68
72	The application of bioflocs technology to protect brine shrimp (Artemia franciscana) from pathogenic Vibrio harveyi. Journal of Applied Microbiology, 2010, 109, no-no.	3.1	97

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73	Can Bacteria Evolve Resistance to Quorum Sensing Disruption?. PLoS Pathogens, 2010, 6, e1000989.	4.7	192
74	The effect of poly Î²-hydroxybutyrate on larviculture of the giant freshwater prawn Macrobrachium rosenbergii. Aquaculture, 2010, 302, 76-81.	3.5	100
75	Short-chain fatty acids and poly-Î²-hydroxyalkanoates: (New) Biocontrol agents for a sustainable animal production. Biotechnology Advances, 2009, 27, 680-685.	11.7	145
76	Effects of feeding regime and probionts on the diverting microbial communities in rotifer Brachionus culture. Aquaculture International, 2009, 17, 303-315.	2.2	26
77	Ingestion of bacteria overproducing DnaK attenuates Vibrio infection of Artemia franciscana larvae. Cell Stress and Chaperones, 2009, 14, 603-609.	2.9	25
78	Virulence of luminescent and non-luminescent isogenic vibrios towards gnotobioticArtemia franciscanalarvae and specific pathogen-freeLitopenaeus vannameishrimp. Journal of Applied Microbiology, 2009, 106, 1388-1396.	3.1	8
79	In vivo effects of single or combined N-acyl homoserine lactone quorum sensing signals on the performance of Macrobrachium rosenbergii larvae. Aquaculture, 2009, 288, 233-238.	3.5	34
80	Novel approach of using homoserine lactone-degrading and poly-Î²-hydroxybutyrate-accumulating bacteria to protect Artemia from the pathogenic effects of Vibrio harveyi. Aquaculture, 2009, 291, 23-30.	3.5	37
81	Analysis of the evolution of microbial communities associated with different cultures of rotifer strains belonging to different cryptic species of the Brachionus plicatilis species complex. Aquaculture, 2009, 292, 23-29.	3.5	12
82	Quorum sensing and quorum quenching in Vibrio harveyi: lessons learned from in vivo work. ISME Journal, 2008, 2, 19-26.	9.8	154
83	Luminescence, virulence and quorum sensing signal production by pathogenic Vibrio campbellii and Vibrio harveyi isolates. Journal of Applied Microbiology, 2008, 104, 1480-1487.	3.1	36
84	Cinnamaldehyde and cinnamaldehyde derivatives reduce virulence in Vibrio spp. by decreasing the DNA-binding activity of the quorum sensing response regulator LuxR. BMC Microbiology, 2008, 8, 149.	3.3	262
85	The basics of bio-flocs technology: The added value for aquaculture. Aquaculture, 2008, 277, 125-137.	3.5	580
86	Nitrogen removal techniques in aquaculture for a sustainable production. Aquaculture, 2007, 270, 1-14.	3.5	561
87	The bacterial storage compound poly-?-hydroxybutyrate protects Artemia franciscana from pathogenic Vibrio campbellii. Environmental Microbiology, 2007, 9, 445-452.	3.8	150
88	The natural furanone (5Z)-4-bromo-5-(bromomethylene)-3-butyl-2(5H)-furanone disrupts quorum sensing-regulated gene expression in Vibrio harveyi by decreasing the DNA-binding activity of the transcriptional regulator protein luxR. Environmental Microbiology, 2007, 9, 2486-2495.	3.8	184
89	Poly-ÃŽÂ²-hydroxybutyrate-accumulating bacteria protect gnotobiotic Artemia franciscana from pathogenic Vibrio campbellii. FEMS Microbiology Ecology, 2007, 60, 363-369.	2.7	88
90	Alternatives to antibiotics to control bacterial infections: luminescent vibriosis in aquaculture as an example. Trends in Biotechnology, 2007, 25, 472-479.	9.3	304

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91	Quorum Sensing-Disrupting Brominated Furanones Protect the Gnotobiotic Brine Shrimp Artemia franciscana from Pathogenic Vibrio harveyi, Vibrio campbellii, and Vibrio parahaemolyticus Isolates. Applied and Environmental Microbiology, 2006, 72, 6419-6423.	3.1	169
92	Short-chain fatty acids protect gnotobiotic Artemia franciscana from pathogenic Vibrio campbellii. Aquaculture, 2006, 261, 804-808.	3.5	70
93	Detection and quantification of the human-specific HF183 Bacteroides 16S rRNA genetic marker with real-time PCR for assessment of human faecal pollution in freshwater. Environmental Microbiology, 2005, 7, 249-259.	3.8	301
94	The impact of mutations in the quorum sensing systems of Aeromonas hydrophila, Vibrio anguillarum and Vibrio harveyi on their virulence towards gnotobiotically cultured Artemia franciscana. Environmental Microbiology, 2005, 7, 1239-1247.	3.8	136
95	Production of acylated homoserine lactones byAeromonasandPseudomonasstrains isolated from municipal activated sludge. Canadian Journal of Microbiology, 2005, 51, 924-933.	1.7	37
96	Disruption of bacterial quorum sensing: an unexplored strategy to fight infections in aquaculture. Aquaculture, 2004, 240, 69-88.	3.5	226
97	Quorum Sensing Regulation of Virulence Gene Expression in Vibrio harveyi during its Interaction with Marine Diatom Skeletonema marinoi. Journal of Pure and Applied Microbiology, 0, , .	0.9	1