

# Geert F Wiegertjes

## List of Publications by Year in descending order

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95  
papers

4,849  
citations

79946

39  
h-index

103101

66  
g-index

105  
all docs

105  
docs citations

105  
times ranked

5020  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrodynamic Flow-Mediated Protein Sorting on the Cell Surface of Trypanosomes. <i>Cell</i> , 2007, 131, 505-515.	27.8	367
2	Immunogenetics of disease resistance in fish: A comparative approach. <i>Developmental and Comparative Immunology</i> , 1996, 20, 365-381.	2.3	309
3	Ligand specificities of Toll-like receptors in fish: Indications from infection studies. <i>Developmental and Comparative Immunology</i> , 2014, 43, 205-222.	2.3	202
4	Exploring fish microbial communities to mitigate emerging diseases in aquaculture. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.8	165
5	Long-lived effects of administering $\beta$ -glucans: Indications for trained immunity in fish. <i>Developmental and Comparative Immunology</i> , 2016, 64, 93-102.	2.3	160
6	Feed, Microbiota, and Gut Immunity: Using the Zebrafish Model to Understand Fish Health. <i>Frontiers in Immunology</i> , 2020, 11, 114.	4.9	156
7	Molecular and functional characterization of carp TNF: a link between TNF polymorphism and trypanotolerance?. <i>Developmental and Comparative Immunology</i> , 2003, 27, 29-41.	2.3	154
8	Head Kidney-Derived Macrophages of Common Carp ( <i>Cyprinus carpio</i> L.) Show Plasticity and Functional Polarization upon Differential Stimulation. <i>Journal of Immunology</i> , 2006, 177, 61-69.	0.8	147
9	Polarization of immune responses in fish: The $\alpha$ -macrophages first <sup>TM</sup> point of view. <i>Molecular Immunology</i> , 2016, 69, 146-156.	2.4	132
10	Differential expression of two interferon- $\beta$ genes in common carp ( <i>Cyprinus carpio</i> L.). <i>Developmental and Comparative Immunology</i> , 2008, 32, 1467-1481.	2.3	118
11	The immune response of carp to <i>Trypanoplasma borreli</i> : kinetics of immune gene expression and polyclonal lymphocyte activation. <i>Developmental and Comparative Immunology</i> , 2003, 27, 859-874.	2.3	117
12	Molecular cloning and expression of two $\beta$ -defensin and two mucin genes in common carp ( <i>Cyprinus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22 494-501.	3.7	117
13	Carp Il10 Has Anti-Inflammatory Activities on Phagocytes, Promotes Proliferation of Memory T Cells, and Regulates B Cell Differentiation and Antibody Secretion. <i>Journal of Immunology</i> , 2015, 194, 187-199.	0.8	105
14	Comparison of the Exomes of Common Carp ( <i>Cyprinus carpio</i> ) and Zebrafish ( <i>Danio</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	1.2	90
15	Evolution of Recognition of Ligands from Gram-Positive Bacteria: Similarities and Differences in the TLR2-Mediated Response between Mammalian Vertebrates and Teleost Fish. <i>Journal of Immunology</i> , 2010, 184, 2355-2368.	0.8	89
16	Activation of the Chicken Type I Interferon Response by Infectious Bronchitis Coronavirus. <i>Journal of Virology</i> , 2015, 89, 1156-1167.	3.5	86
17	Heterogeneity of macrophage activation in fish. <i>Developmental and Comparative Immunology</i> , 2011, 35, 1246-1255.	2.3	85
18	Transcription of signal-3 cytokines, IL-12 and IFN- $\gamma$ , coincides with the timing of CD8 $\alpha$ up-regulation during viral infection of common carp ( <i>Cyprinus carpio</i> L.). <i>Molecular Immunology</i> , 2008, 45, 1531-1547.	2.4	81

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19	Comparative studies of Toll-like receptor signalling using zebrafish. <i>Developmental and Comparative Immunology</i> , 2014, 46, 35-52.	2.3	77
20	Infectious Bronchitis Coronavirus Limits Interferon Production by Inducing a Host Shutoff That Requires Accessory Protein 5b. <i>Journal of Virology</i> , 2016, 90, 7519-7528.	3.5	77
21	Evolutionary conservation of alternative activation of macrophages: Structural and functional characterization of arginase 1 and 2 in carp ( <i>Cyprinus carpio</i> L.). <i>Molecular Immunology</i> , 2006, 43, 1116-1128.	2.4	69
22	Real-time gene expression analysis in carp ( <i>Cyprinus carpio</i> L.) skin: Inflammatory responses to injury mimicking infection with ectoparasites. <i>Developmental and Comparative Immunology</i> , 2007, 31, 244-254.	2.3	62
23	Conserved Fever Pathways across Vertebrates: A Herpesvirus Expressed Decoy TNF- $\alpha$ Receptor Delays Behavioral Fever in Fish. <i>Cell Host and Microbe</i> , 2017, 21, 244-253.	11.0	61
24	Studies Into $\beta$ -Glucan Recognition in Fish Suggests a Key Role for the C-Type Lectin Pathway. <i>Frontiers in Immunology</i> , 2019, 10, 280.	4.9	60
25	$\beta$ -Glucan-supplemented diets increase poly(I:C)-induced gene expression of Mx, possibly via Tlr3-mediated recognition mechanism in common carp ( <i>Cyprinus carpio</i> ). <i>Fish and Shellfish Immunology</i> , 2014, 36, 494-502.	3.7	59
26	Evidence of Trained Immunity in a Fish: Conserved Features in Carp Macrophages. <i>Journal of Immunology</i> , 2019, 203, 216-224.	0.8	59
27	Differential contribution of neutrophilic granulocytes and macrophages to nitrosative stress in a host-parasite animal model. <i>Molecular Immunology</i> , 2008, 45, 3178-3189.	2.4	55
28	Receptor-Mediated and Lectin-Like Activities of Carp ( <i>Cyprinus carpio</i> ) TNF- $\alpha$ . <i>Journal of Immunology</i> , 2009, 183, 5319-5332.	0.8	55
29	Properties of Carotenoids in Fish Fitness: A Review. <i>Marine Drugs</i> , 2020, 18, 568.	4.6	53
30	Transcriptional analysis of the common carp ( <i>Cyprinus carpio</i> L.) immune response to the fish louse <i>Argulus japonicus</i> Thiele (Crustacea: Branchiura). <i>Fish and Shellfish Immunology</i> , 2008, 25, 76-83.	3.7	52
31	Molecular and functional characterization of Toll-like receptor (Tlr)1 and Tlr2 in common carp ( <i>Cyprinus carpio</i> L.). <i>Journal of Immunology</i> , 2009, 183, 5319-5332.	0.784314	51
32	Trypanosomiasis-Induced Th17-Like Immune Responses in Carp. <i>PLoS ONE</i> , 2010, 5, e13012.	2.5	49
33	Major histocompatibility genes in cyprinid fishes: theory and practice. <i>Immunological Reviews</i> , 1998, 166, 301-316.	6.1	48
34	The Use of Real-Time Quantitative PCR for the Analysis of Cytokine mRNA Levels. <i>Methods in Molecular Biology</i> , 2012, 820, 7-23.	0.0	46
35	Molecular and functional characterization of the scavenger receptor CD36 in zebrafish and common carp. <i>Molecular Immunology</i> , 2015, 63, 381-393.	2.4	46
36	Carbohydrate utilisation by tilapia: a meta-analytical approach. <i>Reviews in Aquaculture</i> , 2020, 12, 1851-1866.	9.6	46

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37	Genetic differences in natural antibody levels in common carp ( <i>Cyprinus carpio</i> L.). <i>Fish and Shellfish Immunology</i> , 2006, 21, 404-413.	3.7	45
38	Fish Macrophages Show Distinct Metabolic Signatures Upon Polarization. <i>Frontiers in Immunology</i> , 2020, 11, 152.	4.9	45
39	Differential macrophage polarisation during parasitic infections in common carp ( <i>Cyprinus carpio</i> L.). <i>Fish and Shellfish Immunology</i> , 2006, 21, 561-571.	3.7	44
40	Infectious Bronchitis Coronavirus Inhibits STAT1 Signaling and Requires Accessory Proteins for Resistance to Type I Interferon Activity. <i>Journal of Virology</i> , 2015, 89, 12047-12057.	3.5	42
41	Differential transcription of multiple forms of alpha-2-macroglobulin in carp ( <i>Cyprinus carpio</i> ) infected with parasites. <i>Developmental and Comparative Immunology</i> , 2008, 32, 339-347.	2.3	40
42	Intramuscular DNA Vaccination of Juvenile Carp against Spring Viremia of Carp Virus Induces Full Protection and Establishes a Virus-Specific B and T Cell Response. <i>Frontiers in Immunology</i> , 2017, 8, 1340.	4.9	40
43	Identification and functional characterization of nonmammalian Toll-like receptor 20. <i>Immunogenetics</i> , 2014, 66, 123-141.	2.5	39
44	Lymphoid Tissue in Teleost Gills: Variations on a Theme. <i>Biology</i> , 2020, 9, 127.	2.9	39
45	Accessory molecules for Toll-like receptors in Teleost fish. Identification of TLR4 interactor with leucine-rich repeats (TRIL). <i>Molecular Immunology</i> , 2013, 56, 745-756.	2.4	38
46	Major histocompatibility (MH) class II B gene polymorphism influences disease resistance of common carp ( <i>Cyprinus carpio</i> L.). <i>Aquaculture</i> , 2009, 288, 44-50.	3.5	36
47	Genomic and transcriptomic approaches to study immunology in cyprinids: What is next?. <i>Developmental and Comparative Immunology</i> , 2017, 75, 48-62.	2.3	34
48	The kinetics of cellular and humoral immune responses of common carp to presporogonic development of the myxozoan <i>Sphaerospora molnari</i> . <i>Parasites and Vectors</i> , 2019, 12, 208.	2.6	32
49	The induction of nitric oxide response of carp macrophages by transferrin is influenced by the allelic diversity of the molecule. <i>Fish and Shellfish Immunology</i> , 2009, 26, 632-638.	3.7	29
50	Transcriptome sequencing supports a conservation of macrophage polarization in fish. <i>Scientific Reports</i> , 2020, 10, 13470.	3.4	29
51	Different capacities of carp leukocytes to encounter nitric oxide-mediated stress: a role for the intracellular reduced glutathione pool. <i>Developmental and Comparative Immunology</i> , 2003, 27, 555-568.	2.3	28
52	Parasite infections revisited. <i>Developmental and Comparative Immunology</i> , 2005, 29, 749-758.	2.3	28
53	<i>Pichia pastoris</i> yeast as a vehicle for oral vaccination of larval and adult teleosts. <i>Fish and Shellfish Immunology</i> , 2019, 85, 52-60.	3.7	26
54	Immune-relevant thrombocytes of common carp undergo parasite-induced nitric oxide-mediated apoptosis. <i>Developmental and Comparative Immunology</i> , 2015, 50, 146-154.	2.3	24

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55	Cyprinid Herpesvirus 3 I110 Inhibits Inflammatory Activities of Carp Macrophages and Promotes Proliferation of Igm+ B Cells and Memory T Cells in a Manner Similar to Carp I110. <i>Journal of Immunology</i> , 2015, 195, 3694-3704.	0.8	24
56	Different transcriptional response between susceptible and resistant common carp ( <i>Cyprinus carpio</i> ) fish hints on the mechanism of CyHV-3 disease resistance. <i>BMC Genomics</i> , 2019, 20, 1019.	2.9	24
57	Intra-muscular and oral vaccination using a Koi Herpesvirus ORF25 DNA vaccine does not confer protection in common carp ( <i>Cyprinus carpio</i> L.). <i>Fish and Shellfish Immunology</i> , 2019, 85, 90-98.	3.7	24
58	High-Resolution, 3D Imaging of the Zebrafish Gill-Associated Lymphoid Tissue (GIALT) Reveals a Novel Lymphoid Structure, the Amphibranchial Lymphoid Tissue. <i>Frontiers in Immunology</i> , 2021, 12, 769901.	4.9	24
59	Molecular cloning and functional characterisation of a cathepsin L-like proteinase from the fish kinetoplastid parasite <i>Trypanosoma carassii</i> . <i>Fish and Shellfish Immunology</i> , 2008, 24, 205-214.	3.7	23
60	Genetic resistance of carp ( <i>Cyprinus carpio</i> L.) to <i>Trypanoplasma borreli</i> : Influence of transferrin polymorphisms. <i>Veterinary Immunology and Immunopathology</i> , 2009, 127, 19-25.	1.2	23
61	Nitric oxide hinders antibody clearance from the surface of <i>Trypanoplasma borreli</i> and increases susceptibility to complement-mediated lysis. <i>Molecular Immunology</i> , 2009, 46, 3188-3197.	2.4	21
62	Carp I110a and I110b exert identical biological activities in vitro, but are differentially regulated in vivo. <i>Developmental and Comparative Immunology</i> , 2017, 67, 350-360.	2.3	21
63	One-step automated bioprinting-based method for cumulus-oocyte complex microencapsulation for 3D in vitro maturation. <i>PLoS ONE</i> , 2020, 15, e0238812.	2.5	21
64	<i>Trypanoplasma borreli</i> cysteine proteinase activities support a conservation of function with respect to digestion of host proteins in common carp. <i>Developmental and Comparative Immunology</i> , 2008, 32, 1348-1361.	2.3	19
65	A Novel Soluble Immune-Type Receptor (SITR) in Teleost Fish: Carp SITR Is Involved in the Nitric Oxide-Mediated Response to a Protozoan Parasite. <i>PLoS ONE</i> , 2011, 6, e15986.	2.5	19
66	Modeling social-ecological problems in coastal ecosystems: A case study. <i>Complexity</i> , 2014, 19, 73-82.	1.7	19
67	Paralogs of Common Carp Granulocyte Colony-Stimulating Factor (G-CSF) Have Different Functions Regarding Development, Trafficking and Activation of Neutrophils. <i>Frontiers in Immunology</i> , 2019, 10, 255.	4.9	18
68	Allelic discrimination, three-dimensional analysis and gene expression of multiple transferrin alleles of common carp ( <i>Cyprinus carpio</i> L.). <i>Fish and Shellfish Immunology</i> , 2009, 26, 573-581.	3.7	17
69	The Occurrence of Mycotoxins in Raw Materials and Fish Feeds in Europe and the Potential Effects of Deoxynivalenol (DON) on the Health and Growth of Farmed Fish Species – A Review. <i>Toxins</i> , 2021, 13, 403.	3.5	16
70	Î2-Glucan-Induced Immuno-Modulation: A Role for the Intestinal Microbiota and Short-Chain Fatty Acids in Common Carp. <i>Frontiers in Immunology</i> , 2021, 12, 761820.	4.9	16
71	Mixed infection with <i>Trypanoplasma borreli</i> and <i>Trypanosoma carassii</i> induces protection: Involvement of cross-reactive antibodies. <i>Developmental and Comparative Immunology</i> , 2007, 31, 903-915.	2.3	15
72	Feed-competition in global aquaculture: Current trends and prospects. <i>Reviews in Aquaculture</i> , 2023, 15, 1142-1158.	9.6	15

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73	Nitrosative Stress During Infection-Induced Inflammation in Fish: Lessons From a Host-Parasite Infection Model. <i>Current Pharmaceutical Design</i> , 2010, 16, 4194-4202.	1.9	14
74	cDNA expression library screening and identification of two novel antigens: Ubiquitin and receptor for activated C kinase (RACK) homologue, of the fish parasite <i>Trypanosoma carassii</i> . <i>Fish and Shellfish Immunology</i> , 2008, 25, 84-90.	3.7	12
75	An early $\beta$ -glucan bath during embryo development increases larval size of Nile tilapia. <i>Aquaculture Research</i> , 2019, 50, 2012-2014.	1.8	10
76	Re-evaluation of common carp ( <i>Cyprinus carpio</i> L.) housekeeping genes for gene expression studies "considering duplicated genes. <i>Fish and Shellfish Immunology</i> , 2021, 115, 58-69.	3.7	9
77	Minor effect of depletion of resident macrophages from peritoneal cavity on resistance of common carp <i>Cyprinus carpio</i> to blood flagellates. <i>Diseases of Aquatic Organisms</i> , 2003, 57, 67-75.	1.0	8
78	Classical crosses of common carp ( <i>Cyprinus carpio</i> L.) show co-segregation of antibody response with major histocompatibility class II B genes. <i>Fish and Shellfish Immunology</i> , 2009, 26, 352-358.	3.7	8
79	Transforming sustainable aquaculture by applying circularity principles. <i>Reviews in Aquaculture</i> , 2024, 16, 656-673.	9.6	8
80	Patterns of the innate immune response in tambaqui <i>Colossoma macropomum</i> : Modulation of gene expression in haemorrhagic septicaemia caused by <i>Aeromonas hydrophila</i> . <i>Microbial Pathogenesis</i> , 2021, 150, 104638.	2.9	7
81	Conservation of members of the free fatty acid receptor gene family in common carp. <i>Developmental and Comparative Immunology</i> , 2022, 126, 104240.	2.3	7
82	Heart rate determines the beneficial effects of beta-blockers on cardiovascular outcomes in patients with heart failure and atrial fibrillation. <i>Hypertension Research</i> , 2019, 42, 1716-1725.	2.8	6
83	Transcriptome Sequence of the Bloodstream Form of <i>Trypanoplasma borreli</i> , a Hematozoic Parasite of Fish Transmitted by Leeches. <i>Genome Announcements</i> , 2017, 5, .	0.8	5
84	ETosis in tambaqui <i>Colossoma macropomum</i> : A programmed cell death pathway and approach of leukocytes immune response. <i>Microbial Pathogenesis</i> , 2021, 155, 104918.	2.9	3
85	Occurrence of foamy macrophages during the innate response of zebrafish to trypanosome infections. <i>ELife</i> , 2021, 10, .	5.9	3
86	Fish Macrophages. , 2022, , 203-227.		3
87	Animal models for the study of innate immunity: protozoan infections in fish. , 2004, , 67-89.		2
88	Macrophage Heterogeneity in the Intestinal Cells of Salmon: Hints From Transcriptomic and Imaging Data. <i>Frontiers in Immunology</i> , 2021, 12, 798156.	4.9	2
89	Time- and Dose-Dependent Effects of Dietary Deoxynivalenol (DON) in Rainbow Trout ( <i>Oncorhynchus</i> ) Tj ETQq1 1 0.784314 ggBT /Over 3.5 2	3.5	2
90	Phagocytotic activity and gene expression of leukocytes isolated from <i>Astyanax lacustris</i> . <i>Brazilian Journal of Biology</i> , 0, 83, .	0.9	1

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91	Environmental microbes determine macrophage response towards saponin-induced inflammation in zebrafish larvae. <i>Water Biology and Security</i> , 2023, 2, 100187.	2.5	1
92	Preface to the special issue: Intestinal immunity. <i>Developmental and Comparative Immunology</i> , 2016, 64, 1.	2.3	0
93	Differences in growth of <i>Trypanoplasma borreli</i> in carp serum is dependent on transferrin genotype. <i>Fish and Shellfish Immunology</i> , 2021, 114, 58-64.	3.7	0
94	Green and red macroalgae extracts show antibacterial effects and induce innate immune responses in Nile tilapia and rainbow trout in vitro. <i>The Journal of Informatics</i> , 2024, 6, 200128.	0.0	0
95	Why aquaculture needs immunology. <i>Reviews in Aquaculture</i> , 0, , .	9.6	0