

# Geert F Wiegertjes

## List of Publications by Citations

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84  
papers

3,394  
citations

33  
h-index

56  
g-index

91  
ext. papers

4,065  
ext. citations

5.4  
avg, IF

5.4  
L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 84 | Hydrodynamic flow-mediated protein sorting on the cell surface of trypanosomes. <i>Cell</i> , <b>2007</b> , 131, 505-156.2   | 5.6 | 290       |
| 83 | Immunogenetics of disease resistance in fish: a comparative approach. <i>Developmental and Comparative Immunology</i> , <b>1996</b> , 20, 365-81   | 3.2 | 255       |
| 82 | Ligand specificities of Toll-like receptors in fish: indications from infection studies. <i>Developmental and Comparative Immunology</i> , <b>2014</b> , 43, 205-22  | 3.2 | 148       |
| 81 | Molecular and functional characterization of carp TNF: a link between TNF polymorphism and trypanotolerance?. <i>Developmental and Comparative Immunology</i> , <b>2003</b> , 27, 29-41  | 3.2 | 139       |
| 80 | 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> , <b>2006</b> , 177, 61-9  | 5.3 | 111       |
| 79 | Differential expression of two interferon-gamma genes in common carp ( <i>Cyprinus carpio</i> L.). <i>Developmental and Comparative Immunology</i> , <b>2008</b> , 32, 1467-81   | 3.2 | 100       |
| 78 | Long-lived effects of administering $\beta$ glucans: Indications for trained immunity in fish. <i>Developmental and Comparative Immunology</i> , <b>2016</b> , 64, 93-102  | 3.2 | 98        |
| 77 | 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> , <b>2003</b> , 27, 859-74                                    | 3.2 | 98        |
| 76 | Molecular cloning and expression of two $\beta$ defensin and two mucin genes in common carp ( <i>Cyprinus carpio</i> L.) and their up-regulation after $\beta$ glucan feeding. <i>Fish and Shellfish Immunology</i> , <b>2012</b> , 32, 494-501      | 4.3 | 96        |
| 75 | Polarization of immune responses in fish: The Tmacrophages firstTpoint of view. <i>Molecular Immunology</i> , <b>2016</b> , 69, 146-56   | 4.3 | 87        |
| 74 | 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> , <b>2010</b> , 184, 2355-68                | 5.3 | 76        |
| 73 | 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> , <b>2015</b> , 194, 187-99                            | 5.3 | 74        |
| 72 | Exploring fish microbial communities to mitigate emerging diseases in aquaculture. <i>FEMS Microbiology Ecology</i> , <b>2018</b> , 94,  | 4.3 | 72        |
| 71 | Activation of the chicken type I interferon response by infectious bronchitis coronavirus. <i>Journal of Virology</i> , <b>2015</b> , 89, 1156-67  | 6.6 | 69        |
| 70 | Heterogeneity of macrophage activation in fish. <i>Developmental and Comparative Immunology</i> , <b>2011</b> , 35, 1246-55  | 3.2 | 68        |
| 69 | Transcription of signal-3 cytokines, IL-12 and IFN alpha beta, coincides with the timing of CD8 alpha beta up-regulation during viral infection of common carp ( <i>Cyprinus carpio</i> L.). <i>Molecular Immunology</i> , <b>2008</b> , 45, 1531-47 | 4.3 | 68        |
| 68 | Comparison of the exomes of common carp ( <i>Cyprinus carpio</i> ) and zebrafish ( <i>Danio rerio</i> ). <i>Zebrafish</i> , <b>2012</b> , 9, 59-67   | 2   | 67        |

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|----|--|------|----|
| 67 | 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> , <b>2006</b> , 43, 1116-28           | 4.3  | 62 |
| 66 | 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> , <b>2007</b> , 31, 244-54          | 3.2  | 57 |
| 65 | Comparative studies of Toll-like receptor signalling using zebrafish. <i>Developmental and Comparative Immunology</i> , <b>2014</b> , 46, 35-52  | 3.2  | 55 |
| 64 | Feed, Microbiota, and Gut Immunity: Using the Zebrafish Model to Understand Fish Health. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 114  | 8.4  | 52 |
| 63 | Differential contribution of neutrophilic granulocytes and macrophages to nitrosative stress in a host-parasite animal model. <i>Molecular Immunology</i> , <b>2008</b> , 45, 3178-89  | 4.3  | 50 |
| 62 | Receptor-mediated and lectin-like activities of carp ( <i>Cyprinus carpio</i> ) TNF-alpha. <i>Journal of Immunology</i> , <b>2009</b> , 183, 5319-32   | 5.3  | 48 |
| 61 | 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> , <b>2008</b> , 25, 76-83         | 4.3  | 45 |
| 60 | Major histocompatibility genes in cyprinid fishes: theory and practice. <i>Immunological Reviews</i> , <b>1998</b> , 166, 301-16   | 11.3 | 44 |
| 59 | Infectious Bronchitis Coronavirus Limits Interferon Production by Inducing a Host Shutoff That Requires Accessory Protein 5b. <i>Journal of Virology</i> , <b>2016</b> , 90, 7519-7528   | 6.6  | 43 |
| 58 | β-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> , <b>2014</b> , 36, 494-502 | 4.3  | 43 |
| 57 | Differential macrophage polarisation during parasitic infections in common carp ( <i>Cyprinus carpio</i> L.). <i>Fish and Shellfish Immunology</i> , <b>2006</b> , 21, 561-71  | 4.3  | 41 |
| 56 | Trypanosomiasis-induced Th17-like immune responses in carp. <i>PLoS ONE</i> , <b>2010</b> , 5, e13012  | 3.7  | 41 |
| 55 | Genetic differences in natural antibody levels in common carp ( <i>Cyprinus carpio</i> L.). <i>Fish and Shellfish Immunology</i> , <b>2006</b> , 21, 404-13  | 4.3  | 40 |
| 54 | Conserved Fever Pathways across Vertebrates: A Herpesvirus Expressed Decoy TNF-α Receptor Delays Behavioral Fever in Fish. <i>Cell Host and Microbe</i> , <b>2017</b> , 21, 244-253  | 23.4 | 38 |
| 53 | Evidence of Trained Immunity in a Fish: Conserved Features in Carp Macrophages. <i>Journal of Immunology</i> , <b>2019</b> , 203, 216-224  | 5.3  | 33 |
| 52 | Identification and functional characterization of nonmammalian Toll-like receptor 20. <i>Immunogenetics</i> , <b>2014</b> , 66, 123-41   | 3.2  | 33 |
| 51 | Major histocompatibility (MH) class II B gene polymorphism influences disease resistance of common carp ( <i>Cyprinus carpio</i> L.). <i>Aquaculture</i> , <b>2009</b> , 288, 44-50  | 4.4  | 33 |
| 50 | Differential transcription of multiple forms of alpha-2-macroglobulin in carp ( <i>Cyprinus carpio</i> ) infected with parasites. <i>Developmental and Comparative Immunology</i> , <b>2008</b> , 32, 339-47                               | 3.2  | 33 |

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|----|---|-----|----|
| 49 | Infectious Bronchitis Coronavirus Inhibits STAT1 Signaling and Requires Accessory Proteins for Resistance to Type I Interferon Activity. <i>Journal of Virology</i> , <b>2015</b> , 89, 12047-57  | 6.6 | 32 |
| 48 | The use of real-time quantitative PCR for the analysis of cytokine mRNA levels. <i>Methods in Molecular Biology</i> , <b>2012</b> , 820, 7-23   | 1.4 | 31 |
| 47 | Molecular and functional characterization of the scavenger receptor CD36 in zebrafish and common carp. <i>Molecular Immunology</i> , <b>2015</b> , 63, 381-93   | 4.3 | 30 |
| 46 | Accessory molecules for Toll-like receptors in Teleost fish. Identification of TLR4 interactor with leucine-rich repeats (TRIL). <i>Molecular Immunology</i> , <b>2013</b> , 56, 745-56   | 4.3 | 30 |
| 45 | Molecular and functional characterization of Toll-like receptor (Tlr)1 and Tlr2 in common carp ( <i>Cyprinus carpio</i> ). <i>Fish and Shellfish Immunology</i> , <b>2016</b> , 56, 70-83   | 4.3 | 30 |
| 44 | Studies Into $\beta$ Glucan Recognition in Fish Suggests a Key Role for the C-Type Lectin Pathway. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 280   | 8.4 | 28 |
| 43 | 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> , <b>2017</b> , 8, 1340                  | 8.4 | 27 |
| 42 | Parasite infections revisited. <i>Developmental and Comparative Immunology</i> , <b>2005</b> , 29, 749-58   | 3.2 | 27 |
| 41 | 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> , <b>2009</b> , 26, 632-8  | 4.3 | 24 |
| 40 | 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> , <b>2003</b> , 27, 555-68                        | 3.2 | 24 |
| 39 | Cyprinid Herpesvirus 3 Il10 Inhibits Inflammatory Activities of Carp Macrophages and Promotes Proliferation of Igm+ B Cells and Memory T Cells in a Manner Similar to Carp Il10. <i>Journal of Immunology</i> , <b>2015</b> , 195, 3694-704 | 5.3 | 21 |
| 38 | Genetic resistance of carp ( <i>Cyprinus carpio</i> L.) to <i>Trypanoplasma borreli</i> : influence of transferrin polymorphisms. <i>Veterinary Immunology and Immunopathology</i> , <b>2009</b> , 127, 19-25                               | 2   | 21 |
| 37 | 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> , <b>2019</b> , 12, 208  | 4   | 20 |
| 36 | Fish Macrophages Show Distinct Metabolic Signatures Upon Polarization. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 152   | 8.4 | 20 |
| 35 | Nitric oxide hinders antibody clearance from the surface of <i>Trypanoplasma borreli</i> and increases susceptibility to complement-mediated lysis. <i>Molecular Immunology</i> , <b>2009</b> , 46, 3188-97                                 | 4.3 | 20 |
| 34 | Genomic and transcriptomic approaches to study immunology in cyprinids: What is next?. <i>Developmental and Comparative Immunology</i> , <b>2017</b> , 75, 48-62  | 3.2 | 18 |
| 33 | 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> , <b>2008</b> , 24, 205-14                       | 4.3 | 18 |
| 32 | 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> , <b>2019</b> , 85, 90-98                        | 4.3 | 18 |

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|----|---|-----|----|
| 31 | Carp Il10a and Il10b exert identical biological activities in vitro, but are differentially regulated in vivo. <i>Developmental and Comparative Immunology</i> , <b>2017</b> , 67, 350-360  | 3.2 | 17 |
| 30 | Lymphoid Tissue in Teleost Gills: Variations on a Theme. <i>Biology</i> , <b>2020</b> , 9,  | 4.9 | 16 |
| 29 | <i>Pichia pastoris</i> yeast as a vehicle for oral vaccination of larval and adult teleosts. <i>Fish and Shellfish Immunology</i> , <b>2019</b> , 85, 52-60   | 4.3 | 16 |
| 28 | Visualizing trypanosomes in a vertebrate host reveals novel swimming behaviours, adaptations and attachment mechanisms. <i>ELife</i> , <b>2019</b> , 8,   | 8.9 | 16 |
| 27 | Transcriptome sequencing supports a conservation of macrophage polarization in fish. <i>Scientific Reports</i> , <b>2020</b> , 10, 13470  | 4.9 | 16 |
| 26 | <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> , <b>2008</b> , 32, 1348-61                         | 3.2 | 15 |
| 25 | Immune-relevant thrombocytes of common carp undergo parasite-induced nitric oxide-mediated apoptosis. <i>Developmental and Comparative Immunology</i> , <b>2015</b> , 50, 146-54  | 3.2 | 14 |
| 24 | 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> , <b>2009</b> , 26, 573-81   | 4.3 | 14 |
| 23 | 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> , <b>2011</b> , 6, e15986   | 3.7 | 13 |
| 22 | Nitrosative stress during infection-induced inflammation in fish: lessons from a host-parasite infection model. <i>Current Pharmaceutical Design</i> , <b>2010</b> , 16, 4194-202   | 3.3 | 13 |
| 21 | 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> , <b>2007</b> , 31, 903-15 <sup>3-2</sup>                     |     | 13 |
| 20 | Carbohydrate utilisation by tilapia: a meta-analytical approach. <i>Reviews in Aquaculture</i> , <b>2020</b> , 12, 1851   | 8.9 | 12 |
| 19 | 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> , <b>2008</b> , 25, 84-90 | 4.3 | 11 |
| 18 | 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> , <b>2019</b> , 10, 255                                       | 8.4 | 10 |
| 17 | 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> , <b>2019</b> , 20, 1019  | 4.5 | 10 |
| 16 | An early β-glucan bath during embryo development increases larval size of Nile tilapia. <i>Aquaculture Research</i> , <b>2019</b> , 50, 2012-2014   | 1.9 | 9  |
| 15 | 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> , <b>2009</b> , 26, 352-8   | 4.3 | 8  |
| 14 | Properties of Carotenoids in Fish Fitness: A Review. <i>Marine Drugs</i> , <b>2020</b> , 18,  | 6   | 6  |

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|----|--|-----|---|
| 13 | 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> , <b>2003</b> , 57, 67-75                            | 1.7 | 5 |
| 12 | Transcriptome Sequence of the Bloodstream Form of , a Hematozoic Parasite of Fish Transmitted by Leeches. <i>Genome Announcements</i> , <b>2017</b> , 5,   |     | 4 |
| 11 | 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> , <b>2021</b> , 12, 769904                       | 8.4 | 3 |
| 10 | 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> , <b>2021</b> , 13,                         | 4.9 | 3 |
| 9  | 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> , <b>2021</b> , 150, 104638 | 3.8 | 1 |
| 8  | Conservation of members of the free fatty acid receptor gene family in common carp. <i>Developmental and Comparative Immunology</i> , <b>2022</b> , 126, 104240  | 3.2 | 1 |
| 7  | βGlucan-Induced Immuno-Modulation: A Role for the Intestinal Microbiota and Short-Chain Fatty Acids in Common Carp.. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 761820   | 8.4 | 0 |
| 6  | Animal models for the study of innate immunity: protozoan infections in fish <b>2004</b> , 67-89   |     | 0 |
| 5  | ETosis in tambaqui <i>Colossoma macropomum</i> : A programmed cell death pathway and approach of leukocytes immune response. <i>Microbial Pathogenesis</i> , <b>2021</b> , 155, 104918   | 3.8 | 0 |
| 4  | 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> , <b>2021</b> , 115, 58-69                                     | 4.3 | 0 |
| 3  | Macrophage Heterogeneity in the Intestinal Cells of Salmon: Hints From Transcriptomic and Imaging Data.. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 798156   | 8.4 | 0 |
| 2  | Differences in growth of <i>Trypanoplasma borreli</i> in carp serum is dependent on transferrin genotype. <i>Fish and Shellfish Immunology</i> , <b>2021</b> , 114, 58-64  | 4.3 |   |
| 1  | Fish Macrophages <b>2022</b> , 203-227   |     |   |