

# Annemarie H Meijer

## List of Publications by Year in descending order

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115  
papers

7,598  
citations

44069

48  
h-index

60623

81  
g-index

135  
all docs

135  
docs citations

135  
times ranked

10435  
citing authors

#	ARTICLE	IF	CITATIONS
1	Expression analysis of the Toll-like receptor and TIR domain adaptor families of zebrafish. <i>Molecular Immunology</i> , 2004, 40, 773-783.	2.2	477
2	Adverse outcome pathways: opportunities, limitations and open questions. <i>Archives of Toxicology</i> , 2017, 91, 3477-3505.	4.2	282
3	Host-Pathogen Interactions Made Transparent with the Zebrafish Model. <i>Current Drug Targets</i> , 2011, 12, 1000-1017.	2.1	232
4	Transcriptome Profiling and Functional Analyses of the Zebrafish Embryonic Innate Immune Response to <i>Salmonella</i> Infection. <i>Journal of Immunology</i> , 2009, 182, 5641-5653.	0.8	214
5	Deep sequencing of the zebrafish transcriptome response to mycobacterium infection. <i>Molecular Immunology</i> , 2009, 46, 2918-2930.	2.2	203
6	Infection of Zebrafish Embryos with Intracellular Bacterial Pathogens. <i>Journal of Visualized Experiments</i> , 2012, , .	0.3	176
7	Macrophage-specific gene functions in Spi1-directed innate immunity. <i>Blood</i> , 2010, 116, e1-e11.	1.4	172
8	MyD88 Innate Immune Function in a Zebrafish Embryo Infection Model. <i>Infection and Immunity</i> , 2006, 74, 2436-2441.	2.2	169
9	Pathogen Recognition and Activation of the Innate Immune Response in Zebrafish. <i>Advances in Hematology</i> , 2012, 2012, 1-19.	1.0	157
10	Macrophage-pathogen interactions in infectious diseases: new therapeutic insights from the zebrafish host model. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 785-797.	2.4	153
11	The DNA Damage-Regulated Autophagy Modulator DRAM1 Links Mycobacterial Recognition via TLR-MYD88 to Autophagic Defense. <i>Cell Host and Microbe</i> , 2014, 15, 753-767.	11.0	147
12	Functional analysis of a zebrafish <i>myd88</i> mutant identifies key transcriptional components of the innate immune system. <i>DMM Disease Models and Mechanisms</i> , 2013, 6, 841-54.	2.4	145
13	Discovery of a Functional Glucocorticoid Receptor $\beta$ -Isoform in Zebrafish. <i>Endocrinology</i> , 2008, 149, 1591-1599.	2.8	144
14	Zebrafish development and regeneration: new tools for biomedical research. <i>International Journal of Developmental Biology</i> , 2009, 53, 835-850.	0.6	143
15	Pattern formation in the vascular system of monocot and dicot plant species. <i>New Phytologist</i> , 2004, 164, 209-242.	7.3	136
16	Transcriptome profiling of adult zebrafish at the late stage of chronic tuberculosis due to <i>Mycobacterium marinum</i> infection. <i>Molecular Immunology</i> , 2005, 42, 1185-1203.	2.2	129
17	Hypoxia Inducible Factor Signaling Modulates Susceptibility to Mycobacterial Infection via a Nitric Oxide Dependent Mechanism. <i>PLoS Pathogens</i> , 2013, 9, e1003789.	4.7	129
18	The CXCR3-CXCL11 signaling axis mediates macrophage recruitment and dissemination of mycobacterial infection. <i>DMM Disease Models and Mechanisms</i> , 2015, 8, 253-69.	2.4	129

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19	Nanoparticles as Drug Delivery System against Tuberculosis in Zebrafish Embryos: Direct Visualization and Treatment. <i>ACS Nano</i> , 2014, 8, 7014-7026.	14.6	128
20	Identification and real-time imaging of a myc-expressing neutrophil population involved in inflammation and mycobacterial granuloma formation in zebrafish. <i>Developmental and Comparative Immunology</i> , 2008, 32, 36-49.	2.3	124
21	<i>Burkholderia cenocepacia</i> Creates an Intramacrophage Replication Niche in Zebrafish Embryos, Followed by Bacterial Dissemination and Establishment of Systemic Infection. <i>Infection and Immunity</i> , 2010, 78, 1495-1508.	2.2	121
22	Dextran based photodegradable hydrogels formed via a Michael addition. <i>Soft Matter</i> , 2011, 7, 4881.	2.7	113
23	Specificity of the zebrafish host transcriptome response to acute and chronic mycobacterial infection and the role of innate and adaptive immune components. <i>Molecular Immunology</i> , 2009, 46, 2317-2332.	2.2	112
24	Matrix metalloproteinase 9 modulates collagen matrices and wound repair. <i>Development (Cambridge)</i> , 2015, 142, 2136-2146.	2.5	111
25	MicroRNA-146 function in the innate immune transcriptome response of zebrafish embryos to <i>Salmonella typhimurium</i> infection. <i>BMC Genomics</i> , 2013, 14, 696.	2.8	110
26	Protection and pathology in TB: learning from the zebrafish model. <i>Seminars in Immunopathology</i> , 2016, 38, 261-273.	6.1	104
27	Macrophage-Expressed Perforins Mpeg1 and Mpeg1.2 Have an Anti-Bacterial Function in Zebrafish. <i>Journal of Innate Immunity</i> , 2015, 7, 136-152.	3.8	102
28	A High-Throughput Screen for Tuberculosis Progression. <i>PLoS ONE</i> , 2011, 6, e16779.	2.5	101
29	Infectious Disease Modeling and Innate Immune Function in Zebrafish Embryos. <i>Methods in Cell Biology</i> , 2011, 105, 273-308.	1.1	86
30	Comparison of static immersion and intravenous injection systems for exposure of zebrafish embryos to the natural pathogen <i>Edwardsiella tarda</i> . <i>BMC Immunology</i> , 2011, 12, 58.	2.2	85
31	Robotic injection of zebrafish embryos for high-throughput screening in disease models. <i>Methods</i> , 2013, 62, 246-254.	3.8	84
32	Macrophages target <i>Salmonella</i> by Lc3-associated phagocytosis in a systemic infection model. <i>Autophagy</i> , 2019, 15, 796-812.	9.1	82
33	Deep sequencing of the innate immune transcriptomic response of zebrafish embryos to <i>Salmonella</i> infection. <i>Fish and Shellfish Immunology</i> , 2011, 31, 716-724.	3.6	79
34	RNAseq Profiling of Leukocyte Populations in Zebrafish Larvae Reveals a cxcl11 Chemokine Gene as a Marker of Macrophage Polarization During Mycobacterial Infection. <i>Frontiers in Immunology</i> , 2019, 10, 832.	4.8	76
35	Comparative studies of Toll-like receptor signalling using zebrafish. <i>Developmental and Comparative Immunology</i> , 2014, 46, 35-52.	2.3	75
36	Glucocorticoids inhibit macrophage differentiation towards a pro-inflammatory phenotype upon wounding without affecting their migration. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	2.4	68

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37	Glucocorticoid-Induced Attenuation of the Inflammatory Response in Zebrafish. <i>Endocrinology</i> , 2016, 157, 2772-2784.	2.8	67
38	Microbiota promote secretory cell determination in the intestinal epithelium by modulating host Notch signaling. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	64
39	Hif-1 $\alpha$ -Induced Expression of Il-1 $\beta$ Protects against Mycobacterial Infection in Zebrafish. <i>Journal of Immunology</i> , 2019, 202, 494-502.	0.8	64
40	Deficiency in Hematopoietic Phosphatase Ptpn6/Shp1 Hyperactivates the Innate Immune System and Impairs Control of Bacterial Infections in Zebrafish Embryos. <i>Journal of Immunology</i> , 2013, 190, 1631-1645.	0.8	60
41	Studying Autophagy in Zebrafish. <i>Cells</i> , 2017, 6, 21.	4.1	59
42	Modeling Inflammation in Zebrafish for the Development of Anti-inflammatory Drugs. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 620984.	3.7	59
43	Macrophages, but not neutrophils, are critical for proliferation of <i>Burkholderia cenocepacia</i> and ensuing host-damaging inflammation. <i>PLoS Pathogens</i> , 2017, 13, e1006437.	4.7	58
44	A zebrafish high throughput screening system used for <i>Staphylococcus epidermidis</i> infection marker discovery. <i>BMC Genomics</i> , 2013, 14, 255.	2.8	57
45	Cellular Visualization of Macrophage Pyroptosis and Interleukin-1 $\beta$ Release in a Viral Hemorrhagic Infection in Zebrafish Larvae. <i>Journal of Virology</i> , 2014, 88, 12026-12040.	3.4	57
46	Transcriptional and Metabolic Effects of Glucocorticoid Receptor $\alpha$ and $\beta$ Signaling in Zebrafish. <i>Endocrinology</i> , 2015, 156, 1757-1769.	2.8	57
47	Exploring the HIFs, buts and maybes of hypoxia signalling in disease: lessons from zebrafish models. <i>DMM Disease Models and Mechanisms</i> , 2015, 8, 1349-1360.	2.4	57
48	Transcriptome analysis of Traf6 function in the innate immune response of zebrafish embryos. <i>Molecular Immunology</i> , 2010, 48, 179-190.	2.2	55
49	Modeling Infectious Diseases in the Context of a Developing Immune System. <i>Current Topics in Developmental Biology</i> , 2017, 124, 277-329.	2.2	55
50	The selective autophagy receptors Optineurin and p62 are both required for zebrafish host resistance to mycobacterial infection. <i>PLoS Pathogens</i> , 2019, 15, e1007329.	4.7	53
51	ZebraFISH: Fluorescent In Situ Hybridization Protocol and Three-Dimensional Imaging of Gene Expression Patterns. <i>Zebrafish</i> , 2006, 3, 465-476.	1.1	52
52	Testing Tuberculosis Drug Efficacy in a Zebrafish High-Throughput Translational Medicine Screen. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 753-762.	3.2	52
53	The Difference between White and Red Ginseng: Variations in Ginsenosides and Immunomodulation. <i>Planta Medica</i> , 2018, 84, 845-854.	1.3	52
54	Genomic annotation and expression analysis of the zebrafish Rho small GTPase family during development and bacterial infection. <i>Genomics</i> , 2005, 86, 25-37.	2.9	51

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55	Mesoporous silica nanoparticles as a compound delivery system in zebrafish embryos. <i>International Journal of Nanomedicine</i> , 2012, 7, 1875.	6.7	51
56	Correlative light and electron microscopy imaging of autophagy in a zebrafish infection model. <i>Autophagy</i> , 2014, 10, 1844-1857.	9.1	49
57	The autophagic response to <i>Staphylococcus aureus</i> provides an intracellular niche in neutrophils. <i>Autophagy</i> , 2021, 17, 888-902.	9.1	49
58	CXCR4 signaling regulates metastatic onset by controlling neutrophil motility and response to malignant cells. <i>Scientific Reports</i> , 2019, 9, 2399.	3.3	46
59	Phagocytosis of mycobacteria by zebrafish macrophages is dependent on the scavenger receptor Marco, a key control factor of pro-inflammatory signalling. <i>Developmental and Comparative Immunology</i> , 2014, 47, 223-233.	2.3	44
60	<i>In vivo</i> inactivation of glycosidases by conduritol B epoxide and cyclophellitol as revealed by activity-based protein profiling. <i>FEBS Journal</i> , 2019, 286, 584-600.	4.7	44
61	The inflammatory chemokine Cxcl18b exerts neutrophil-specific chemotaxis via the promiscuous chemokine receptor Cxcr2 in zebrafish. <i>Developmental and Comparative Immunology</i> , 2017, 67, 57-65.	2.3	42
62	Molecular and functional characterization of the scavenger receptor CD36 in zebrafish and common carp. <i>Molecular Immunology</i> , 2015, 63, 381-393.	2.2	41
63	Chemokine Receptors and Phagocyte Biology in Zebrafish. <i>Frontiers in Immunology</i> , 2020, 11, 325.	4.8	40
64	RNA Sequencing of FACS-Sorted Immune Cell Populations from Zebrafish Infection Models to Identify Cell Specific Responses to Intracellular Pathogens. <i>Methods in Molecular Biology</i> , 2014, 1197, 261-274.	0.9	40
65	Cyclodextrin/dextran based drug carriers for a controlled release of hydrophobic drugs in zebrafish embryos. <i>Soft Matter</i> , 2010, 6, 3778.	2.7	39
66	Functional analysis of the HD-Zip transcription factor genes Oshox12 and Oshox14 in rice. <i>PLoS ONE</i> , 2018, 13, e0199248.	2.5	38
67	Mycobacteria Counteract a TLR-Mediated Nitrosative Defense Mechanism in a Zebrafish Infection Model. <i>PLoS ONE</i> , 2014, 9, e100928.	2.5	35
68	Functional Inhibition of Host Histone Deacetylases (HDACs) Enhances <i>in vitro</i> and <i>in vivo</i> Anti-mycobacterial Activity in Human Macrophages and in Zebrafish. <i>Frontiers in Immunology</i> , 2020, 11, 36.	4.8	34
69	Transcriptomic Approaches in the Zebrafish Model for Tuberculosis – Insights Into Host- and Pathogen-specific Determinants of the Innate Immune Response. <i>Advances in Genetics</i> , 2016, 95, 217-251.	1.8	32
70	Zebrafish in Inflammasome Research. <i>Cells</i> , 2019, 8, 901.	4.1	32
71	Real-time imaging and genetic dissection of host-microbe interactions in zebrafish. <i>Cellular Microbiology</i> , 2014, 16, 39-49.	2.1	31
72	The chemokine receptor CXCR4 promotes granuloma formation by sustaining a mycobacteria-induced angiogenesis programme. <i>Scientific Reports</i> , 2017, 7, 45061.	3.3	31

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73	Frontline Science: Antagonism between regular and atypical Cxcr3 receptors regulates macrophage migration during infection and injury in zebrafish. <i>Journal of Leukocyte Biology</i> , 2020, 107, 185-203.	3.3	31
74	Efferocytosis and extrusion of leukocytes determine the progression of early mycobacterial pathogenesis. <i>Journal of Cell Science</i> , 2016, 129, 3385-95.	2.0	30
75	Role of $\beta$ -glucosidase 2 in aberrant glycosphingolipid metabolism: model of glucocerebrosidase deficiency in zebrafish. <i>Journal of Lipid Research</i> , 2019, 60, 1851-1867.	4.2	29
76	Common and specific downstream signaling targets controlled by Tlr2 and Tlr5 innate immune signaling in zebrafish. <i>BMC Genomics</i> , 2015, 16, 547.	2.8	28
77	Deficiency in the autophagy modulator Dram1 exacerbates pyroptotic cell death of Mycobacteria-infected macrophages. <i>Cell Death and Disease</i> , 2020, 11, 277.	6.3	27
78	Different subcellular localization and trafficking properties of KNOX class 1 homeodomain proteins from rice. <i>Plant Molecular Biology</i> , 2004, 55, 781-796.	3.9	26
79	Aryl Hydrocarbon Receptor Modulation by Tuberculosis Drugs Impairs Host Defense and Treatment Outcomes. <i>Cell Host and Microbe</i> , 2020, 27, 238-248.e7.	11.0	26
80	Expression and regulation of drug transporters in vertebrate neutrophils. <i>Scientific Reports</i> , 2017, 7, 4967.	3.3	22
81	The embryonic expression patterns of zebrafish genes encoding LysM-domains. <i>Gene Expression Patterns</i> , 2013, 13, 212-224.	0.8	21
82	Establishment and Optimization of a High Throughput Setup to Study <i>Staphylococcus epidermidis</i> and <i>Mycobacterium marinum</i> Infection as a Model for Drug Discovery. <i>Journal of Visualized Experiments</i> , 2014, , e51649.	0.3	21
83	Infection and RNA-seq analysis of a zebrafish tlr2 mutant shows a broad function of this toll-like receptor in transcriptional and metabolic control and defense to <i>Mycobacterium marinum</i> infection. <i>BMC Genomics</i> , 2019, 20, 878.	2.8	21
84	Autophagy and Lc3-Associated Phagocytosis in Zebrafish Models of Bacterial Infections. <i>Cells</i> , 2020, 9, 2372.	4.1	21
85	Ginsenoside Rg1 Acts as a Selective Glucocorticoid Receptor Agonist with Anti-Inflammatory Action without Affecting Tissue Regeneration in Zebrafish Larvae. <i>Cells</i> , 2020, 9, 1107.	4.1	21
86	Deep learning image recognition enables efficient genome editing in zebrafish by automated injections. <i>PLoS ONE</i> , 2019, 14, e0202377.	2.5	20
87	Inhibition of ErbB kinase signalling promotes resolution of neutrophilic inflammation. <i>ELife</i> , 2019, 8, .	6.0	20
88	DRAM1 promotes the targeting of mycobacteria to selective autophagy. <i>Autophagy</i> , 2014, 10, 2389-2391.	9.1	19
89	Ultrastructural Imaging of <i>Salmonella</i> Host Interactions Using Super-resolution Correlative Light-Electron Microscopy of Bioorthogonal Pathogens. <i>ChemBioChem</i> , 2018, 19, 1766-1770.	2.6	19
90	<i>Aspergillus fumigatus</i> establishes infection in zebrafish by germination of phagocytized conidia, while <i>Aspergillus niger</i> relies on extracellular germination. <i>Scientific Reports</i> , 2019, 9, 12791.	3.3	19

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91	Functional analysis reveals no transcriptional role for the glucocorticoid receptor $\beta$ -isoform in zebrafish. <i>Molecular and Cellular Endocrinology</i> , 2017, 447, 61-70.	3.2	18
92	Bacterial size matters: Multiple mechanisms controlling septum cleavage and diplococcus formation are critical for the virulence of the opportunistic pathogen <i>Enterococcus faecalis</i> . <i>PLoS Pathogens</i> , 2017, 13, e1006526.	4.7	18
93	Ras-Induced miR-146a and 193a Target <i>Jmjd6</i> to Regulate Melanoma Progression. <i>Frontiers in Genetics</i> , 2018, 9, 675.	2.3	18
94	Rubicon-Dependent Lc3 Recruitment to Salmonella-Containing Phagosomes Is a Host Defense Mechanism Triggered Independently From Major Bacterial Virulence Factors. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 279.	3.9	18
95	Modeling Innate Immune Response to Early <i>Mycobacterium</i> Infection. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-12.	1.3	17
96	Imaging of Human Cancer Cell Proliferation, Invasion, and Micrometastasis in a Zebrafish Xenogeneic Engraftment Model. <i>Methods in Molecular Biology</i> , 2016, 1451, 155-169.	0.9	17
97	Analysis of RNAseq datasets from a comparative infectious disease zebrafish model using GeneTiles bioinformatics. <i>Immunogenetics</i> , 2015, 67, 135-147.	2.4	15
98	A seven-membered cell wall related transglycosylase gene family in <i>Aspergillus niger</i> is relevant for cell wall integrity in cell wall mutants with reduced $\beta$ -glucan or galactomannan. <i>Cell Surface</i> , 2020, 6, 100039.	3.0	15
99	Parallel deep transcriptome and proteome analysis of zebrafish larvae. <i>BMC Research Notes</i> , 2013, 6, 428.	1.4	14
100	Glucocorticoid-Induced Exacerbation of Mycobacterial Infection Is Associated With a Reduced Phagocytic Capacity of Macrophages. <i>Frontiers in Immunology</i> , 2021, 12, 618569.	4.8	14
101	LAPped in Proof: LC3-Associated Phagocytosis and the Arms Race Against Bacterial Pathogens. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 809121.	3.9	14
102	Rapid screening of innate immune gene expression in zebrafish using reverse transcription - multiplex ligation-dependent probe amplification. <i>BMC Research Notes</i> , 2011, 4, 196.	1.4	12
103	Inhibition of macrophage migration in zebrafish larvae demonstrates in vivo efficacy of human CCR2 inhibitors. <i>Developmental and Comparative Immunology</i> , 2021, 116, 103932.	2.3	12
104	A fresh look at mycobacterial pathogenicity with the zebrafish host model. <i>Molecular Microbiology</i> , 2022, 117, 661-669.	2.5	12
105	Linking Smokers' Susceptibility to Tuberculosis with Lysosomal Storage Disorders. <i>Developmental Cell</i> , 2016, 37, 112-113.	7.0	9
106	Variation of virulence of five <i>Aspergillus fumigatus</i> isolates in four different infection models. <i>PLoS ONE</i> , 2021, 16, e0252948.	2.5	9
107	Consequences of excessive glucosylsphingosine in glucocerebrosidase-deficient zebrafish. <i>Journal of Lipid Research</i> , 2022, , 100199.	4.2	9
108	Deletion of the <i>Aspergillus niger</i> Pro-Protein Processing Protease Gene <i>kexB</i> Results in a pH-Dependent Morphological Transition during Submerged Cultivations and Increases Cell Wall Chitin Content. <i>Microorganisms</i> , 2020, 8, 1918.	3.6	5

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109	The adapter protein Myd88 plays an important role in limiting mycobacterial growth in a zebrafish model for tuberculosis. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2021, 479, 265-275.	2.8	5
110	HI-NESS: a family of genetically encoded DNA labels based on a bacterial nucleoid-associated protein. <i>Nucleic Acids Research</i> , 2022, 50, e10-e10.	14.5	4
111	Stimulating the autophagic-lysosomal axis enhances host defense against fungal infection in a zebrafish model of invasive Aspergillosis. <i>Autophagy</i> , 2023, 19, 324-337.	9.1	4
112	Disruption of Cxcr3 chemotactic signaling alters lysosomal function and renders macrophages more microbicidal. <i>Cell Reports</i> , 2021, 35, 109000.	6.4	3
113	A quantitative in vivo assay for craniofacial developmental toxicity of histone deacetylases. <i>Toxicology Letters</i> , 2021, 342, 20-25.	0.8	3
114	Macrophages as drivers of an opportunistic infection. <i>Microbial Cell</i> , 2017, 4, 362-364.	3.2	2
115	COMICS: Cartoon Visualization of Omics Data in Spatial Context Using Anatomical Ontologies. <i>Journal of Proteome Research</i> , 2018, 17, 739-744.	3.7	1