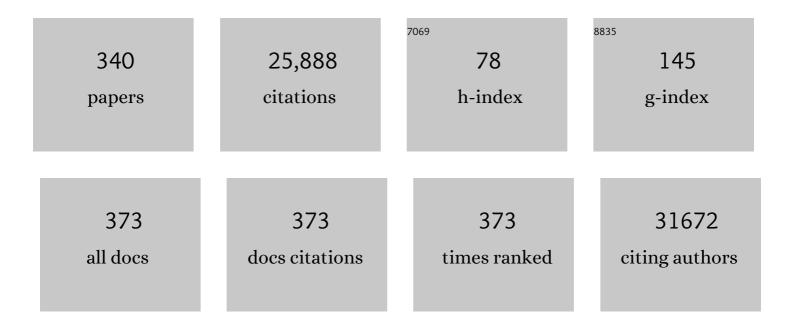
## Herman P Spaink

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	Promoters in the nodulation region of the Rhizobium leguminosarum Sym plasmid pRL1JI. Plant Molecular Biology, 1987, 9, 27-39.	2.0	631
3	A novel highly unsaturated fatty acid moiety of lipo-oligosaccharide signals determines host specificity of Rhizobium. Nature, 1991, 354, 125-130.	13.7	576
4	Expression analysis of the Toll-like receptor and TIR domain adaptor families of zebrafish. Molecular Immunology, 2004, 40, 773-783.	1.0	477
5	Auxin transport inhibition precedes root nodule formation in white clover roots and is regulated by flavonoids and derivatives of chitin oligosaccharides. Plant Journal, 1998, 14, 23-34.	2.8	455
6	Root Nodulation and Infection Factors Produced by Rhizobial Bacteria. Annual Review of Microbiology, 2000, 54, 257-288.	2.9	431
7	The king cobra genome reveals dynamic gene evolution and adaptation in the snake venom system. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20651-20656.	3.3	412
8	Induction of Pre-Infection Thread Structures in the Leguminous Host Plant by Mitogenic Lipo-Oligosaccharides of Rhizobium. Science, 1992, 257, 70-72.	6.0	337
9	The ENOD12 gene product is involved in the infection process during the pea-rhizobium interaction. Cell, 1990, 60, 281-294.	13.5	293
10	Rhizobium nodulation gene nodD as a determinant of host specificity. Nature, 1987, 328, 337-340.	13.7	247
11	Root Hair Deformation Activity of Nodulation Factors and Their Fate on Vicia sativa. Plant Physiology, 1994, 105, 787-797.	2.3	237
12	Host-Pathogen Interactions Made Transparent with the Zebrafish Model. Current Drug Targets, 2011, 12, 1000-1017.	1.0	232
13	Infection-Blocking Genes of a Symbiotic Rhizobium leguminosarum Strain That Are Involved in Temperature-Dependent Protein Secretion. Molecular Plant-Microbe Interactions, 2003, 16, 53-64.	1.4	220
14	Transcriptome Profiling and Functional Analyses of the Zebrafish Embryonic Innate Immune Response to <i>Salmonella</i> Infection. Journal of Immunology, 2009, 182, 5641-5653.	0.4	214
15	Deep sequencing of the zebrafish transcriptome response to mycobacterium infection. Molecular Immunology, 2009, 46, 2918-2930.	1.0	203
16	A 2-O-methylfucose moiety is present in the lipo-oligosaccharide nodulation signal of Bradyrhizobium japonicum Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 8789-8793.	3.3	201
17	Functions of the MAPK family in vertebrate-development. FEBS Letters, 2006, 580, 4984-4990.	1.3	200
18	Zebrafish embryos and larvae: A new generation of disease models and drug screens. Birth Defects Research Part C: Embryo Today Reviews, 2011, 93, 115-133.	3.6	196

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19	Gene expression profiling of the long-term adaptive response to hypoxia in the gills of adult zebrafish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 289, R1512-R1519.	0.9	186
20	Androgenic switch: an example of plant embryogenesis from the male gametophyte perspective. Journal of Experimental Botany, 2005, 56, 1711-1726.	2.4	183
21	Single-Molecule Imaging of L-Type Ca2+ Channels in Live Cells. Biophysical Journal, 2001, 81, 2639-2646.	0.2	179
22	Infection of Zebrafish Embryos with Intracellular Bacterial Pathogens. Journal of Visualized Experiments, 2012, , .	0.2	176
23	Macrophage-specific gene functions in Spi1-directed innate immunity. Blood, 2010, 116, e1-e11.	0.6	172
24	MyD88 Innate Immune Function in a Zebrafish Embryo Infection Model. Infection and Immunity, 2006, 74, 2436-2441.	1.0	169
25	Induction of the nodA promoter of Rhizobium leguminosarum Sym plasmid pRL1JI by plant flavanones and flavones. Journal of Bacteriology, 1987, 169, 198-204.	1.0	167
26	The Molecular Basis of Infection and Nodulation by Rhizobia: The Ins and Outs of Sympathogenesis. Annual Review of Phytopathology, 1995, 33, 345-368.	3.5	166
27	Neutrophilâ€mediated experimental metastasis is enhanced by VEGFR inhibition in a zebrafish xenograft model. Journal of Pathology, 2012, 227, 431-445.	2.1	158
28	Pathogen Recognition and Activation of the Innate Immune Response in Zebrafish. Advances in Hematology, 2012, 2012, 1-19.	0.6	157
29	Structural identification of the iipo-chitin oligosaccharide nodulation signals of Rhizobium loti. Molecular Microbiology, 2006, 15, 627-638.	1.2	154
30	Lipo-oligosaccharides of Rhizobium induce infection-related early nodulin gene expression in pea root hairs. Plant Journal, 1993, 4, 727-733.	2.8	153
31	Macrophage-pathogen interactions in infectious diseases: new therapeutic insights from the zebrafish host model. DMM Disease Models and Mechanisms, 2014, 7, 785-797.	1.2	153
32	Computing with DNA by operating on plasmids. BioSystems, 2000, 57, 87-93.	0.9	147
33	The DNA Damage-Regulated Autophagy Modulator DRAM1 Links Mycobacterial Recognition via TLR-MYD88 to Autophagic Defense. Cell Host and Microbe, 2014, 15, 753-767.	5.1	147
34	Functional analysis of a zebrafish <i>myd88</i> mutant identifies key transcriptional components of the innate immune system. DMM Disease Models and Mechanisms, 2013, 6, 841-54.	1.2	145
35	Discovery of a Functional Glucocorticoid Receptor β-Isoform in Zebrafish. Endocrinology, 2008, 149, 1591-1599.	1.4	144
36	Zebrafish development and regeneration: new tools for biomedical research. International Journal of Developmental Biology, 2009, 53, 835-850.	0.3	143

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37	Establishing Zebrafish as a Novel Exercise Model: Swimming Economy, Swimming-Enhanced Growth and Muscle Growth Marker Gene Expression. PLoS ONE, 2010, 5, e14483.	1.1	143
38	Use of Green Fluorescent Protein Color Variants Expressed on Stable Broad-Host-Range Vectors to Visualize Rhizobia Interacting with Plants. Molecular Plant-Microbe Interactions, 2000, 13, 1163-1169.	1.4	140
39	Single-Molecule Imaging of the H-Ras Membrane-Anchor Reveals Domains in the Cytoplasmic Leaflet of the Cell Membrane. Biophysical Journal, 2004, 86, 609-616.	0.2	140
40	Rhizobial lipo-oligosaccharides: answers and questions. Plant Molecular Biology, 1992, 20, 977-986.	2.0	137
41	Giant lungfish genome elucidates the conquest of land by vertebrates. Nature, 2021, 590, 284-289.	13.7	132
42	Pathway analysis of systemic transcriptome responses to injected polystyrene particles in zebrafish larvae. Aquatic Toxicology, 2017, 190, 112-120.	1.9	131
43	Auxin distribution inLotus japonicusduring root nodule development. Plant Molecular Biology, 2003, 52, 1169-1180.	2.0	130
44	Transcriptome profiling of adult zebrafish at the late stage of chronic tuberculosis due to Mycobacterium marinum infection. Molecular Immunology, 2005, 42, 1185-1203.	1.0	129
45	The CXCR3-CXCL11 signaling axis mediates macrophage recruitment and dissemination of mycobacterial infection. DMM Disease Models and Mechanisms, 2015, 8, 253-69.	1.2	129
46	Primitive Duplicate Hox Clusters in the European Eel's Genome. PLoS ONE, 2012, 7, e32231.	1.1	128
47	Polarization of immune responses in fish: The â€~macrophages first' point of view. Molecular Immunology, 2016, 69, 146-156.	1.0	128
48	Has2 is required upstream of Rac1 to govern dorsal migration of lateral cells during zebrafish gastrulation. Development (Cambridge), 2004, 131, 525-537.	1.2	127
49	Detection and Separation of <i>Rhizobium</i> and <i>Bradyrhizobium</i> Nod Metabolites Using Thin-Layer Chromatography. Molecular Plant-Microbe Interactions, 1992, 5, 72.	1.4	127
50	Identification and real-time imaging of a myc-expressing neutrophil population involved in inflammation and mycobacterial granuloma formation in zebrafish. Developmental and Comparative Immunology, 2008, 32, 36-49.	1.0	124
51	Isolation, chemical structures and biological activity of the lipo-chitin oligosaccharide nodulation signals from Rhizobium etli. Plant Molecular Biology, 1995, 29, 453-464.	2.0	123
52	A Two-Component System Plays an Important Role in the Root-Colonizing Ability of Pseudomonas fluorescens Strain WCS365. Molecular Plant-Microbe Interactions, 1998, 11, 45-56.	1.4	115
53	Lipochitin Oligosaccharides from Rhizobium leguminosarum bv. viciae Reduce Auxin Transport Capacity in Vicia sativa subsp. nigra Roots. Molecular Plant-Microbe Interactions, 1999, 12, 839-844.	1.4	114
54	Dextran based photodegradable hydrogels formed via a Michael addition. Soft Matter, 2011, 7, 4881.	1.2	113

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55	Specificity of the zebrafish host transcriptome response to acute and chronic mycobacterial infection and the role of innate and adaptive immune components. Molecular Immunology, 2009, 46, 2317-2332.	1.0	112
56	MicroRNA-146 function in the innate immune transcriptome response of zebrafish embryos to Salmonella typhimurium infection. BMC Genomics, 2013, 14, 696.	1.2	110
57	Single-molecule diffusion measurements of H-Ras at the plasma membrane of live cells reveal microdomain localization upon activation. Journal of Cell Science, 2005, 118, 1799-1809.	1.2	109
58	Symbiotic properties of rhizobia containing a flavonoid-independent hybrid nodD product. Journal of Bacteriology, 1989, 171, 4045-4053.	1.0	107
59	A biovar-specific signal of Rhizobium leguminosarum bv. viciae induces increased nodulation gene-inducing activity in root exudate of Vicia sativa subsp. nigra. Journal of Bacteriology, 1990, 172, 5394-5401.	1.0	107
60	Genes and signal molecules involved in the rhizobiaLeguminoseae symbiosis. Current Opinion in Plant Biology, 1998, 1, 353-359.	3.5	106
61	Rapid de novo assembly of the European eel genome from nanopore sequencing reads. Scientific Reports, 2017, 7, 7213.	1.6	104
62	Transcriptome analysis of the response to chronic constant hypoxia in zebrafish hearts. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2008, 178, 77-92.	0.7	103
63	Macrophage-Expressed Perforins Mpeg1 and Mpeg1.2 Have an Anti-Bacterial Function in Zebrafish. Journal of Innate Immunity, 2015, 7, 136-152.	1.8	102
64	A High-Throughput Screen for Tuberculosis Progression. PLoS ONE, 2011, 6, e16779.	1.1	101
65	First draft genome sequence of the Japanese eel, Anguilla japonica. Gene, 2012, 511, 195-201.	1.0	99
66	Structural identification of metabolites produced by the NodB and NodC proteins of Rhizobium leguminosarum. Molecular Microbiology, 1994, 13, 821-831.	1.2	98
67	Nodulation protein NodL of Rhizobium leguminosarum O-acetylates lipo-oligosaccharides, chitin fragments and N-acetylglucosamine in vitro. Molecular Microbiology, 1994, 11, 793-804.	1.2	96
68	Genetic Analysis of a pH-Regulated Operon from Rhizobium tropici CIAT899 Involved in Acid Tolerance and Nodulation Competitiveness. Molecular Plant-Microbe Interactions, 2003, 16, 159-168.	1.4	96
69	Isolation of the Rhizobium leguminosarum NodF nodulation protein: NodF carries a 4'-phosphopantetheine prosthetic group. Journal of Bacteriology, 1991, 173, 2872-2878.	1.0	95
70	Regulation of Plant Morphogenesis by Lipo-Chitin Oligosaccharides. Critical Reviews in Plant Sciences, 1996, 15, 559-582.	2.7	95
71	Rhizobium NodI and NodJ proteins play a role in the efficiency of secretion of lipochitin oligosaccharides. Journal of Bacteriology, 1995, 177, 6276-6281.	1.0	91
72	Flavonoids Synthesized in Cortical Cells During Nodule Initiation Are Early Developmental Markers in White Clover. Molecular Plant-Microbe Interactions, 1998, 11, 1223-1232.	1.4	90

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73	Comparison of the Exomes of Common Carp ( <i>Cyprinus carpio</i> ) and Zebrafish ( <i>Danio) Tj ETQq1 1 0.78</i>	4314 rgBT 0.5	Overlock 1
74	Expression of distinct maternal and somatic 5.8S, 18S, and 28S rRNA types during zebrafish development. Rna, 2017, 23, 1188-1199.	1.6	89
75	Infectious Disease Modeling and Innate Immune Function in Zebrafish Embryos. Methods in Cell Biology, 2011, 105, 273-308.	0.5	86
76	Nanoparticles induce dermal and intestinal innate immune system responses in zebrafish embryos. Environmental Science: Nano, 2018, 5, 904-916.	2.2	86
77	In vivo plasma membrane organization: results of biophysical approaches. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1664, 119-131.	1.4	85
78	Comparison of static immersion and intravenous injection systems for exposure of zebrafish embryos to the natural pathogen Edwardsiella tarda. BMC Immunology, 2011, 12, 58.	0.9	85
79	Robotic injection of zebrafish embryos for high-throughput screening in disease models. Methods, 2013, 62, 246-254.	1.9	84
80	The zebrafish as a model system for glucocorticoid receptor research. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, 75-82.	0.8	83
81	Localization of functional regions of the Rhizobium nodD product using hybrid nodD genes. Plant Molecular Biology, 1989, 12, 59-73.	2.0	80
82	Deep sequencing of the innate immune transcriptomic response of zebrafish embryos to Salmonella infection. Fish and Shellfish Immunology, 2011, 31, 716-724.	1.6	79
83	Ultra-small graphene oxide functionalized with polyethylenimine (PEI) for very efficient gene delivery in cell and zebrafish embryos. Nano Research, 2012, 5, 703-709.	5.8	79
84	Characterization and expression patterns of the MAPK family in zebrafish. Gene Expression Patterns, 2006, 6, 1019-1026.	0.3	78
85	A p53/miR-30a/ZEB2 axis controls triple negative breast cancer aggressiveness. Cell Death and Differentiation, 2018, 25, 2165-2180.	5.0	78
86	An important developmental role for oligosaccharides during early embryogenesis of cyprinid fish. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 7982-7986.	3.3	77
87	Exploring the zebrafish embryo as an alternative model for the evaluation of liver toxicity by histopathology and expression profiling. Archives of Toxicology, 2013, 87, 807-823.	1.9	77
88	Contrasted Innate Responses to Two Viruses in Zebrafish: Insights into the Ancestral Repertoire of Vertebrate IFN-Stimulated Genes. Journal of Immunology, 2014, 192, 4328-4341.	0.4	77
89	nodO, a new nod gene of the Rhizobium leguminosarum biovar viciae sym plasmid pRL1JI, encodes a secreted protein. Journal of Bacteriology, 1989, 171, 6764-6770.	1.0	76
90	cDNA array analysis of stress-induced gene expression in barley androgenesis. Physiologia Plantarum, 2006, 127, 535-550.	2.6	76

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91	Identification of a Novel Conjugative Plasmid in Mycobacteria That Requires Both Type IV and Type VII Secretion. MBio, 2014, 5, e01744-14.	1.8	76
92	RNAseq Profiling of Leukocyte Populations in Zebrafish Larvae Reveals a cxcl11 Chemokine Gene as a Marker of Macrophage Polarization During Mycobacterial Infection. Frontiers in Immunology, 2019, 10, 832.	2.2	76
93	Automated Whole Animal Bio-Imaging Assay for Human Cancer Dissemination. PLoS ONE, 2012, 7, e31281.	1.1	76
94	Subcellular localization of the nodD gene product in Rhizobium leguminosarum. Journal of Bacteriology, 1989, 171, 4686-4693.	1.0	75
95	Comparative studies of Toll-like receptor signalling using zebrafish. Developmental and Comparative Immunology, 2014, 46, 35-52.	1.0	75
96	Structure of theuvrBgene ofEscherichia coli. Homology with other DNA repair enzymes and characterization of the uvrB5 mutation. Nucleic Acids Research, 1986, 14, 2877-2890.	6.5	73
97	Intestinal microbiome adjusts the innate immune setpoint during colonization through negative regulation of MyD88. Nature Communications, 2018, 9, 4099.	5.8	73
98	Single-Molecule Diffusion Reveals Similar Mobility for the Lck, H-Ras, and K-Ras Membrane Anchors. Biophysical Journal, 2006, 91, 1090-1097.	0.2	72
99	Candidates for membrane progestin receptors—Past approaches and future challenges. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2008, 148, 381-389.	1.3	72
100	NodZ of Bradyrhizobium extends the nodulation host range of Rhizobium by adding a fucosyl residue to nodulation signals. Molecular Microbiology, 1996, 21, 397-408.	1.2	71
101	Zebrafish reward mutants reveal novel transcripts mediating the behavioral effects of amphetamine. Genome Biology, 2009, 10, R81.	13.9	71
102	Characterization of <i>Rhizobium tropici</i> ClAT899 Nodulation Factors: The Role of <i>nodH</i> and <i>nodPQ</i> Genes in Their Sulfation. Molecular Plant-Microbe Interactions, 1996, 9, 151.	1.4	70
103	Plant-inducible virulence promoter of the Agrobacterium tumefaciens Ti plasmid. Nature, 1984, 312, 564-566.	13.7	68
104	The extraembryonic serosa is a frontier epithelium providing the insect egg with a full-range innate immune response. ELife, 2014, 3, .	2.8	68
105	Swimming-induced exercise promotes hypertrophy and vascularization of fast skeletal muscle fibres and activation of myogenic and angiogenic transcriptional programs in adult zebrafish. BMC Genomics, 2014, 15, 1136.	1.2	67
106	Glucocorticoid-Induced Attenuation of the Inflammatory Response in Zebrafish. Endocrinology, 2016, 157, 2772-2784.	1.4	67
107	Application of Coiled Coil Peptides in Liposomal Anticancer Drug Delivery Using a Zebrafish Xenograft Model. ACS Nano, 2016, 10, 7428-7435.	7.3	66
108	Pharmacokinetic Modeling of Paracetamol Uptake and Clearance in Zebrafish Larvae: Expanding the Allometric Scale in Vertebrates with Five Orders of Magnitude. Zebrafish, 2016, 13, 504-510.	0.5	66

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109	Mutation in GDP-Fucose Synthesis Genes of Sinorhizobium fredii Alters Nod Factors and Significantly Decreases Competitiveness to Nodulate Soybeans. Molecular Plant-Microbe Interactions, 1999, 12, 207-217.	1.4	64
110	Cell Biological Changes of Outer Cortical Root Cells in Early Determinate Nodulation. Molecular Plant-Microbe Interactions, 2001, 14, 839-847.	1.4	64
111	Host Specificity of <i>Rhizobium leguminosarum </i> is Determined by the Hydrophobicity of Highly Unsaturated Fatty Acyl Moieties of the Nodulation Factors. Molecular Plant-Microbe Interactions, 1995, 8, 155.	1.4	64
112	Deep RNA Sequencing of the Skeletal Muscle Transcriptome in Swimming Fish. PLoS ONE, 2013, 8, e53171.	1.1	62
113	Induction of nodule primordia on Phaseolus and Acacia by lipo-chitin oligosaccharide nodulation signals from broad-host-range Rhizobium strain GRH2. Plant Molecular Biology, 1995, 29, 465-477.	2.0	61
114	Uridine, a cell division factor in pea roots. Plant Molecular Biology, 1995, 29, 869-873.	2.0	61
115	Bacterial nodulation protein NodZ is a chitin oligosaccharide fucosyltransferase which can also recognize related substrates of animal origin. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 4336-4341.	3.3	61
116	Magnetic Resonance Microscopy of the Adult Zebrafish. Zebrafish, 2006, 3, 431-439.	0.5	61
117	Distinct functions for ERK1 and ERK2 in cell migration processes during zebrafish gastrulation. Developmental Biology, 2008, 319, 370-383.	0.9	61
118	Chitin Oligosaccharide Synthesis by Rhizobia and Zebrafish Embryos Starts by Glycosyl Transfer to O4 of the Reducing-Terminal Residueâ€. Biochemistry, 1999, 38, 4045-4052.	1.2	60
119	The epigenetic regulator Histone Deacetylase 1 promotes transcription of a core neurogenic programme in zebrafish embryos. BMC Genomics, 2011, 12, 24.	1.2	60
120	Deficiency in Hematopoietic Phosphatase Ptpn6/Shp1 Hyperactivates the Innate Immune System and Impairs Control of Bacterial Infections in Zebrafish Embryos. Journal of Immunology, 2013, 190, 1631-1645.	0.4	60
121	Isoform-specific differences in rapid nucleocytoplasmic shuttling cause distinct subcellular distributions of 14-3-3σ and 14-3-3ζ. Journal of Cell Science, 2004, 117, 1411-1420.	1.2	59
122	Rhizobium Lipooligosaccharides Rescue a Carrot Somatic Embryo Mutant. Plant Cell, 1993, 5, 615.	3.1	58
123	Effect of pH and soybean cultivars on the quantitative analyses of soybean rhizobia populations. Journal of Biotechnology, 2001, 91, 243-255.	1.9	58
124	Keeping track of the growing number of biological functions of chitin and its interaction partners in biomedical research. Glycobiology, 2015, 25, 469-482.	1.3	58
125	Novel Branched Nod Factor Structure Results from α-(1→3) Fucosyl Transferase Activity: The Major Lipo-Chitin Oligosaccharides fromMesorhizobiumlotiStrain NZP2213 Bear an α-(1→3) Fucosyl Substituent on a Nonterminal Backbone Residueâ€. Biochemistry, 1998, 37, 9024-9032.	1.2	57
126	A zebrafish high throughput screening system used for Staphylococcus epidermidis infection marker discovery. BMC Genomics, 2013, 14, 255.	1.2	57

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127	Transcriptional and Metabolic Effects of Glucocorticoid Receptor $\hat{I}\pm$ and $\hat{I}^2$ Signaling in Zebrafish. Endocrinology, 2015, 156, 1757-1769.	1.4	57
128	Regulation of plant morphogenesis by Lipoâ€Chitin oligosaccharides. Critical Reviews in Plant Sciences, 1996, 15, 559-582.	2.7	56
129	Heterologous Rhizobial Lipochitin Oligosaccharides and Chitin Oligomers Induce Cortical Cell Divisions in Red Clover Roots, Transformed with the Pea Lectin Gene. Molecular Plant-Microbe Interactions, 2000, 13, 268-276.	1.4	55
130	Transcriptome analysis of Traf6 function in the innate immune response of zebrafish embryos. Molecular Immunology, 2010, 48, 179-190.	1.0	55
131	A full-body transcriptome and proteome resource for the European common carp. BMC Genomics, 2016, 17, 701.	1.2	55
132	In Vitro and In Vivo Supramolecular Modification of Biomembranes Using a Lipidated Coiledâ€Coil Motif. Angewandte Chemie - International Edition, 2013, 52, 14247-14251.	7.2	54
133	Drug Resistance in Nontuberculous Mycobacteria: Mechanisms and Models. Biology, 2021, 10, 96.	1.3	54
134	A Lotus japonicus Nodulation System Based on Heterologous Expression of the Fucosyl Transferase NodZ and the Acetyl Transferase NolL in Rhizobium leguminosarum. Molecular Plant-Microbe Interactions, 2000, 13, 475-479.	1.4	53
135	Lotus japonicus Contains Two Distinct ENOD40 Genes That Are Expressed in Symbiotic, Nonsymbiotic, and Embryonic Tissues. Molecular Plant-Microbe Interactions, 2000, 13, 987-994.	1.4	53
136	Single-Molecule Microscopy Reveals Membrane Microdomain Organization of Cells in a Living Vertebrate. Biophysical Journal, 2009, 97, 1206-1214.	0.2	53
137	Role of rhizobial lipo-chitin oligosaccharide signal molecules in root nodule organogenesis. Plant Molecular Biology, 1994, 26, 1413-1422.	2.0	52
138	A central domain of Rhizobium NodE protein mediates host specificity by determining the hydrophobicity of fatty acyl moieties of nodulation factors. Molecular Microbiology, 1995, 16, 1123-1136.	1.2	52
139	ZebraFISH: Fluorescent In Situ Hybridization Protocol and Three-Dimensional Imaging of Gene Expression Patterns. Zebrafish, 2006, 3, 465-476.	0.5	52
140	Testing Tuberculosis Drug Efficacy in a Zebrafish High-Throughput Translational Medicine Screen. Antimicrobial Agents and Chemotherapy, 2015, 59, 753-762.	1.4	52
141	Genomic annotation and expression analysis of the zebrafish Rho small GTPase family during development and bacterial infection. Genomics, 2005, 86, 25-37.	1.3	51
142	Photothermal Correlation Spectroscopy of Gold Nanoparticles in Solution. Journal of Physical Chemistry C, 2009, 113, 11451-11457.	1.5	51
143	Automated microinjection of cell-polymer suspensions in 3D ECM scaffolds for high-throughput quantitative cancer invasion screens. Biomaterials, 2012, 33, 181-188.	5.7	50
144	Correlative light and electron microscopy imaging of autophagy in a zebrafish infection model. Autophagy, 2014, 10, 1844-1857.	4.3	49

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145	Additional nodulation genes on the Sym plasmid of Rhizobium leguminosarum biovar viciae. Plant Molecular Biology, 1989, 13, 163-174.	2.0	47
146	Nod Factors of Rhizobium leguminosarum bv. viciae and Their Fucosylated Derivatives Stimulate a Nod Factor Cleaving Activity in Pea Roots and Are Hydrolyzed In Vitro by Plant Chitinases at Different Rates. Molecular Plant-Microbe Interactions, 2000, 13, 799-807.	1.4	47
147	Proteins involved in the production and perception of oligosaccharides in relation to plant and animal development. Current Opinion in Structural Biology, 2001, 11, 608-616.	2.6	47
148	Hyperinsulinemia induces insulin resistance and immune suppression via Ptpn6/Shp1 in zebrafish. Journal of Endocrinology, 2014, 222, 229-241.	1.2	47
149	Characterization of Genomic Clones and Expression Analysis of the Three Types of Superoxide Dismutases During Nodule Development in Lotus japonicus. Molecular Plant-Microbe Interactions, 2007, 20, 262-275.	1.4	46
150	The Arabidopsis selenium-binding protein confers tolerance to toxic levels of selenium. Functional Plant Biology, 2005, 32, 881.	1.1	45
151	Phagocytosis of mycobacteria by zebrafish macrophages is dependent on the scavenger receptor Marco, a key control factor of pro-inflammatory signalling. Developmental and Comparative Immunology, 2014, 47, 223-233.	1.0	44
152	<i>InÂvivo</i> inactivation of glycosidases by conduritol B epoxide and cyclophellitol as revealed by activityâ€based protein profiling. FEBS Journal, 2019, 286, 584-600.	2.2	44
153	Time-lapse tracking of barley androgenesis reveals position-determined cell death within pro-embryos. Planta, 2005, 220, 531-540.	1.6	43
154	ERK1 and ERK2 MAPK are key regulators of distinct gene sets in zebrafish embryogenesis. BMC Genomics, 2008, 9, 196.	1.2	43
155	Ewing sarcoma inhibition by disruption of <scp>EWSR1–FLI1</scp> transcriptional activity and reactivation of p53. Journal of Pathology, 2014, 233, 415-424.	2.1	42
156	RNA isolation method for single embryo transcriptome analysis in zebrafish. BMC Research Notes, 2010, 3, 73.	0.6	41
157	A Rhizobium leguminosarum Biovar trifolii Locus Not Localized on the Sym Plasmid Hinders Effective Nodulation on Plants of the Pea Cross-Inoculation Group. Molecular Plant-Microbe Interactions, 1997, 10, 938-941.	1.4	40
158	GLUT2-Mediated Glucose Uptake and Availability Are Required for Embryonic Brain Development in Zebrafish. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 74-85.	2.4	40
159	RNA Sequencing of FACS-Sorted Immune Cell Populations from Zebrafish Infection Models to Identify Cell Specific Responses to Intracellular Pathogens. Methods in Molecular Biology, 2014, 1197, 261-274.	0.4	40
160	Structural motifs in the RNA encoded by the early nodulation gene enod40 of soybean. Nucleic Acids Research, 2003, 31, 5003-5015.	6.5	39
161	Cyclodextrin/dextran based drug carriers for a controlled release of hydrophobic drugs in zebrafish embryos. Soft Matter, 2010, 6, 3778.	1.2	39
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