

Herman P Spaink

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9158190/publications.pdf>

Version: 2024-02-01

340
papers

25,888
citations

7069

78
h-index

8835

145
g-index

373
all docs

373
docs citations

373
times ranked

31672
citing authors

#	ARTICLE	IF	CITATIONS
1	The ubiquitous catechol moiety elicits siderophore and angucycline production in <i>Streptomyces</i> . <i>Communications Chemistry</i> , 2022, 5, .	2.0	9
2	The Role of TLR2 in Infectious Diseases Caused by Mycobacteria: From Cell Biology to Therapeutic Target. <i>Biology</i> , 2022, 11, 246.	1.3	24
3	Detection of cannabinoid receptor type 2 in native cells and zebrafish with a highly potent, cell-permeable fluorescent probe. <i>Chemical Science</i> , 2022, 13, 5539-5545.	3.7	12
4	Host-directed therapies for tuberculosis: quantitative systems pharmacology approaches. <i>Trends in Pharmacological Sciences</i> , 2022, 43, 293-304.	4.0	8
5	Thermal Proteome Profiling in Zebrafish Reveals Effects of Napabucasin on Retinoic Acid Metabolism. <i>Molecular and Cellular Proteomics</i> , 2021, 20, 100033.	2.5	8
6	Drug Resistance in Nontuberculous Mycobacteria: Mechanisms and Models. <i>Biology</i> , 2021, 10, 96.	1.3	54
7	Antibiofilm effect of C-10 massoia lactone toward polymicrobial oral biofilms. <i>Journal of Advanced Pharmaceutical Technology and Research</i> , 2021, 12, 89.	0.4	2
8	A Novel Function of TLR2 and MyD88 in the Regulation of Leukocyte Cell Migration Behavior During Wounding in Zebrafish Larvae. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 624571.	1.8	9
9	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.	1.4	5
10	A quantitative in vivo assay for craniofacial developmental toxicity of histone deacetylases. <i>Toxicology Letters</i> , 2021, 342, 20-25.	0.4	3
11	Leptin deficiency affects glucose homeostasis and results in adiposity in zebrafish. <i>Journal of Endocrinology</i> , 2021, 249, 125-134.	1.2	11
12	Zebrafish larvae as experimental model to expedite the search for new biomarkers and treatments for neonatal sepsis. <i>Journal of Clinical and Translational Science</i> , 2021, 5, 1-34.	0.3	3
13	Metabolomic and transcriptomic profiling of adult mice and larval zebrafish leptin mutants reveal a common pattern of changes in metabolites and signaling pathways. <i>Cell and Bioscience</i> , 2021, 11, 126.	2.1	4
14	The Role of Galanin during Bacterial Infection in Larval Zebrafish. <i>Cells</i> , 2021, 10, 2011.	1.8	2
15	Giant lungfish genome elucidates the conquest of land by vertebrates. <i>Nature</i> , 2021, 590, 284-289.	13.7	132
16	Investigation of the interaction of DAD1-LIKE LIPASE 3 (DALL3) with Selenium Binding Protein 1 (SBP1) in <i>Arabidopsis thaliana</i> . <i>Plant Science</i> , 2020, 291, 110357.	1.7	9
17	Tuberculosis causes highly conserved metabolic changes in human patients, mycobacteria-infected mice and zebrafish larvae. <i>Scientific Reports</i> , 2020, 10, 11635.	1.6	15
18	Transcriptome sequencing supports a conservation of macrophage polarization in fish. <i>Scientific Reports</i> , 2020, 10, 13470.	1.6	28

#	ARTICLE	IF	CITATIONS
19	Anti-tuberculosis effect of isoniazid scales accurately from zebrafish to humans. <i>British Journal of Pharmacology</i> , 2020, 177, 5518-5533.	2.7	10
20	Functional Inhibition of Host Histone Deacetylases (HDACs) Enhances in vitro and in vivo Anti-mycobacterial Activity in Human Macrophages and in Zebrafish. <i>Frontiers in Immunology</i> , 2020, 11, 36.	2.2	34
21	Quantification of Natural Growth of Two Strains of <i>Mycobacterium Marinum</i> for Translational Antituberculosis Drug Development. <i>Clinical and Translational Science</i> , 2020, 13, 1060-1064.	1.5	5
22	Colonizing microbiota protect zebrafish larvae against silver nanoparticle toxicity. <i>Nanotoxicology</i> , 2020, 14, 725-739.	1.6	14
23	Analyzing the impact of <i>Mycobacterium tuberculosis</i> infection on primary human macrophages by combined exploratory and targeted metabolomics. <i>Scientific Reports</i> , 2020, 10, 7085.	1.6	27
24	Glomerular permeability is not affected by heparan sulfate glycosaminoglycan deficiency in zebrafish embryos. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 317, F1211-F1216.	1.3	10
25	Novel interactions of Selenium Binding Protein family with the PICOT containing proteins AtGRXS14 and AtGRXS16 in <i>Arabidopsis thaliana</i> . <i>Plant Science</i> , 2019, 281, 102-112.	1.7	8
26	Predicting Metabolism from Gene Expression in an Improved Whole-Genome Metabolic Network Model of <i>Danio rerio</i> . <i>Zebrafish</i> , 2019, 16, 348-362.	0.5	20
27	Nano-Sampling and Reporter Tools to Study Metabolic Regulation in Zebrafish. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 15.	1.8	6
28	RNAseq Profiling of Leukocyte Populations in Zebrafish Larvae Reveals a <i>cxcl11</i> Chemokine Gene as a Marker of Macrophage Polarization During Mycobacterial Infection. <i>Frontiers in Immunology</i> , 2019, 10, 832.	2.2	76
29	Enhanced Fatty Acid Scavenging and Glycerophospholipid Metabolism Accompany Melanocyte Neoplasia Progression in Zebrafish. <i>Cancer Research</i> , 2019, 79, 2136-2151.	0.4	24
30	Impact of post-hatching maturation on the pharmacokinetics of paracetamol in zebrafish larvae. <i>Scientific Reports</i> , 2019, 9, 2149.	1.6	22
31	Mechanistic and Quantitative Understanding of Pharmacokinetics in Zebrafish Larvae through Nanoscale Blood Sampling and Metabolite Modeling of Paracetamol. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 371, 15-24.	1.3	24
32	Infection and RNA-seq analysis of a zebrafish <i>tlr2</i> 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.	1.2	21
33	In vivo inactivation of glycosidases by conduritol B epoxide and cyclophellitol as revealed by activity-based protein profiling. <i>FEBS Journal</i> , 2019, 286, 584-600.	2.2	44
34	A Zebrafish Embryo Model for In Vivo Visualization and Intravital Analysis of Biomaterial-associated <i>Staphylococcus aureus</i> Infection. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	2
35	Deep learning image recognition enables efficient genome editing in zebrafish by automated injections. <i>PLoS ONE</i> , 2019, 14, e0202377.	1.1	20
36	Increased dynamin expression precedes proteinuria in glomerular disease. <i>Journal of Pathology</i> , 2019, 247, 177-185.	2.1	11

#	ARTICLE	IF	CITATIONS
37	Nanoparticles induce dermal and intestinal innate immune system responses in zebrafish embryos. <i>Environmental Science: Nano</i> , 2018, 5, 904-916.	2.2	86
38	A p53/miR-30a/ZEB2 axis controls triple negative breast cancer aggressiveness. <i>Cell Death and Differentiation</i> , 2018, 25, 2165-2180.	5.0	78
39	Identifying small RNAs derived from maternal- and somatic-type rRNAs in zebrafish development. <i>Genome</i> , 2018, 61, 371-378.	0.9	23
40	COMICS: Cartoon Visualization of Omics Data in Spatial Context Using Anatomical Ontologies. <i>Journal of Proteome Research</i> , 2018, 17, 739-744.	1.8	1
41	Biological clock function is linked to proactive and reactive personality types. <i>BMC Biology</i> , 2018, 16, 148.	1.7	30
42	Intestinal microbiome adjusts the innate immune setpoint during colonization through negative regulation of MyD88. <i>Nature Communications</i> , 2018, 9, 4099.	5.8	73
43	smarce1 mutants have a defective endocardium and an increased expression of cardiac transcription factors in zebrafish. <i>Scientific Reports</i> , 2018, 8, 15369.	1.6	9
44	An automated screening method for detecting compounds with goitrogenic activity using transgenic zebrafish embryos. <i>PLoS ONE</i> , 2018, 13, e0203087.	1.1	26
45	Performing DNA nanotechnology operations on a zebrafish. <i>Chemical Science</i> , 2018, 9, 7271-7276.	3.7	17
46	Outside-in Systems Pharmacology Combines Innovative Computational Methods With High-throughput Whole Vertebrate Studies. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2018, 7, 285-287.	1.3	13
47	Cross-species Discovery of Flubendazole against Melanoma Progression via MITF Downregulation and EMT Inhibition. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO4-6-31.	0.0	0
48	Abstract 500: A p53/miR-30a/ZEB2 axis controls basal-like/triple-negative breast cancer aggressiveness. , 2018, , .		0
49	Abstract 4109: Multi-modality imaging to interrogate lipidome changes during melanoma progression in zebrafish. , 2018, , .		0
50	Expression of distinct maternal and somatic 5.8S, 18S, and 28S rRNA types during zebrafish development. <i>Rna</i> , 2017, 23, 1188-1199.	1.6	89
51	The zebrafish embryo as a model to quantify early inflammatory cell responses to biomaterials. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2522-2532.	2.1	11
52	Functional analysis reveals no transcriptional role for the glucocorticoid receptor β -isoform in zebrafish. <i>Molecular and Cellular Endocrinology</i> , 2017, 447, 61-70.	1.6	18
53	Linking maternal and somatic 5S rRNA types with different sequence-specific non-LTR retrotransposons. <i>Rna</i> , 2017, 23, 446-456.	1.6	32
54	Rapid de novo assembly of the European eel genome from nanopore sequencing reads. <i>Scientific Reports</i> , 2017, 7, 7213.	1.6	104

#	ARTICLE	IF	CITATIONS
55	Hoxc6 loss of function truncates the main body axis in <i>Xenopus</i> . <i>Cell Cycle</i> , 2017, 16, 1136-1138.	1.3	7
56	Application of <i>Caenorhabditis elegans</i> (nematode) and <i>Danio rerio</i> embryo (zebrafish) as model systems to screen for developmental and reproductive toxicity of Piperazine compounds. <i>Toxicology in Vitro</i> , 2017, 44, 11-16.	1.1	21
57	Pathway analysis of systemic transcriptome responses to injected polystyrene particles in zebrafish larvae. <i>Aquatic Toxicology</i> , 2017, 190, 112-120.	1.9	131
58	Transcriptome dynamics in early zebrafish embryogenesis determined by high-resolution time course analysis of 180 successive, individual zebrafish embryos. <i>BMC Genomics</i> , 2017, 18, 287.	1.2	12
59	Multi-modal 3d reconstruction and measurements of zebrafish larvae and its organs using axial-view microscopy. , 2017, , .		0
60	Three-dimensional reconstruction and measurements of zebrafish larvae from high-throughput axial-view in vivo imaging. <i>Biomedical Optics Express</i> , 2017, 8, 2611.	1.5	33
61	Collinear Hox-Hox interactions are involved in patterning the vertebrate anteroposterior (A-P) axis. <i>PLoS ONE</i> , 2017, 12, e0175287.	1.1	18
62	De novo whole-genome assembly of a wild type yeast isolate using nanopore sequencing. <i>F1000Research</i> , 2017, 6, 618.	0.8	7
63	De novo whole-genome assembly of a wild type yeast isolate using nanopore sequencing. <i>F1000Research</i> , 2017, 6, 618.	0.8	5
64	Mother-Specific Signature in the Maternal Transcriptome Composition of Mature, Unfertilized Zebrafish Eggs. <i>PLoS ONE</i> , 2016, 11, e0147151.	1.1	33
65	Glucocorticoid-Induced Attenuation of the Inflammatory Response in Zebrafish. <i>Endocrinology</i> , 2016, 157, 2772-2784.	1.4	67
66	Automation of Technology for Cancer Research. <i>Advances in Experimental Medicine and Biology</i> , 2016, 916, 315-332.	0.8	5
67	Imaging Cancer Angiogenesis and Metastasis in a Zebrafish Embryo Model. <i>Advances in Experimental Medicine and Biology</i> , 2016, 916, 239-263.	0.8	31
68	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.	0.8	32
69	Efferocytosis and extrusion of leukocytes determine the progression of early mycobacterial pathogenesis. <i>Journal of Cell Science</i> , 2016, 129, 3385-95.	1.2	30
70	Application of Coiled Coil Peptides in Liposomal Anticancer Drug Delivery Using a Zebrafish Xenograft Model. <i>ACS Nano</i> , 2016, 10, 7428-7435.	7.3	66
71	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.	0.4	17
72	A full-body transcriptome and proteome resource for the European common carp. <i>BMC Genomics</i> , 2016, 17, 701.	1.2	55

#	ARTICLE	IF	CITATIONS
73	Pharmacokinetic Modeling of Paracetamol Uptake and Clearance in Zebrafish Larvae: Expanding the Allometric Scale in Vertebrates with Five Orders of Magnitude. <i>Zebrafish</i> , 2016, 13, 504-510.	0.5	66
74	Systems pharmacology of hepatic metabolism in zebrafish larvae. <i>Drug Discovery Today: Disease Models</i> , 2016, 22, 27-34.	1.2	31
75	Transcriptome data on maternal RNA of 24 individual zebrafish eggs from five sibling mothers. <i>Data in Brief</i> , 2016, 8, 69-72.	0.5	1
76	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
77	Visualizing Human Hematopoietic Stem Cell Trafficking In Vivo Using a Zebrafish Xenograft Model. <i>Stem Cells and Development</i> , 2016, 25, 360-365.	1.1	30
78	Polarization of immune responses in fish: The macrophages first point of view. <i>Molecular Immunology</i> , 2016, 69, 146-156.	1.0	128
79	Changes in ovarian gene expression profiles and plasma hormone levels in maturing European eel (<i>Anguilla anguilla</i>) Tj ETQq1 1 0.784314 rgBT /Overl... <i>2016</i> , 225, 185-196.	0.8	19
80	Silhouette-based 3D model for zebrafish high-throughput imaging. , 2015, , .		4
81	The CXCR3-CXCL11 signaling axis mediates macrophage recruitment and dissemination of mycobacterial infection. <i>DMM Disease Models and Mechanisms</i> , 2015, 8, 253-69.	1.2	129
82	Testing Tuberculosis Drug Efficacy in a Zebrafish High-Throughput Translational Medicine Screen. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 753-762.	1.4	52
83	Keeping track of the growing number of biological functions of chitin and its interaction partners in biomedical research. <i>Glycobiology</i> , 2015, 25, 469-482.	1.3	58
84	Analysis of RNAseq datasets from a comparative infectious disease zebrafish model using GeneTiles bioinformatics. <i>Immunogenetics</i> , 2015, 67, 135-147.	1.2	15
85	Improving small RNA-seq by using a synthetic spike-in set for size-range quality control together with a set for data normalization. <i>Nucleic Acids Research</i> , 2015, 43, e89-e89.	6.5	35
86	Transcriptional and Metabolic Effects of Glucocorticoid Receptor α and β Signaling in Zebrafish. <i>Endocrinology</i> , 2015, 156, 1757-1769.	1.4	57
87	Common and specific downstream signaling targets controlled by Tlr2 and Tlr5 innate immune signaling in zebrafish. <i>BMC Genomics</i> , 2015, 16, 547.	1.2	28
88	GLUT2-Mediated Glucose Uptake and Availability Are Required for Embryonic Brain Development in Zebrafish. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 74-85.	2.4	40
89	Macrophage-Expressed Perforins Mpeg1 and Mpeg1.2 Have an Anti-Bacterial Function in Zebrafish. <i>Journal of Innate Immunity</i> , 2015, 7, 136-152.	1.8	102
90	GLUT12 deficiency during early development results in heart failure and a diabetic phenotype in zebrafish. <i>Journal of Endocrinology</i> , 2015, 224, 1-15.	1.2	32

#	ARTICLE	IF	CITATIONS
91	Mycobacteria Counteract a TLR-Mediated Nitrosative Defense Mechanism in a Zebrafish Infection Model. <i>PLoS ONE</i> , 2014, 9, e100928.	1.1	35
92	Correlative light and electron microscopy imaging of autophagy in a zebrafish infection model. <i>Autophagy</i> , 2014, 10, 1844-1857.	4.3	49
93	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.	1.2	153
94	Identification of a Novel Conjugative Plasmid in Mycobacteria That Requires Both Type IV and Type VII Secretion. <i>MBio</i> , 2014, 5, e01744-14.	1.8	76
95	Real-time imaging and genetic dissection of host-microbe interactions in zebrafish. <i>Cellular Microbiology</i> , 2014, 16, 39-49.	1.1	31
96	Ewing sarcoma inhibition by disruption of <i>EWSR1</i> transcriptional activity and reactivation of p53. <i>Journal of Pathology</i> , 2014, 233, 415-424.	2.1	42
97	Swimming-induced exercise promotes hypertrophy and vascularization of fast skeletal muscle fibres and activation of myogenic and angiogenic transcriptional programs in adult zebrafish. <i>BMC Genomics</i> , 2014, 15, 1136.	1.2	67
98	Identification and functional characterization of nonmammalian Toll-like receptor 20. <i>Immunogenetics</i> , 2014, 66, 123-141.	1.2	38
99	Zebrafish Brain Lipid Characterization and Quantification by ¹ H Nuclear Magnetic Resonance Spectroscopy and MALDI-TOF Mass Spectrometry. <i>Zebrafish</i> , 2014, 11, 240-247.	0.5	13
100	Comparative studies of Toll-like receptor signalling using zebrafish. <i>Developmental and Comparative Immunology</i> , 2014, 46, 35-52.	1.0	75
101	Spatial and temporal expression patterns of chitinase genes in developing zebrafish embryos. <i>Gene Expression Patterns</i> , 2014, 14, 69-77.	0.3	19
102	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.	1.0	44
103	Identification of molecular markers in pectoral fin to predict artificial maturation of female European eels (<i>Anguilla anguilla</i>). <i>General and Comparative Endocrinology</i> , 2014, 204, 267-276.	0.8	15
104	The DNA Damage-Regulated Autophagy Modulator DRAM1 Links Mycobacterial Recognition via TLR-MYD88 to Autophagic Defense. <i>Cell Host and Microbe</i> , 2014, 16, 141.	5.1	0
105	Identifying Proteins in Zebrafish Embryos Using Spectral Libraries Generated from Dissected Adult Organs and Tissues. <i>Journal of Proteome Research</i> , 2014, 13, 1537-1544.	1.8	18
106	Hyperinsulinemia induces insulin resistance and immune suppression via Ptpn6/Shp1 in zebrafish. <i>Journal of Endocrinology</i> , 2014, 222, 229-241.	1.2	47
107	Advances in genomics of bony fish. <i>Briefings in Functional Genomics</i> , 2014, 13, 144-156.	1.3	24
108	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.	5.1	147

#	ARTICLE	IF	CITATIONS
109	Contrasted Innate Responses to Two Viruses in Zebrafish: Insights into the Ancestral Repertoire of Vertebrate IFN-Stimulated Genes. <i>Journal of Immunology</i> , 2014, 192, 4328-4341.	0.4	77
110	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.	0.2	21
111	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.	0.4	40
112	The extraembryonic serosa is a frontier epithelium providing the insect egg with a full-range innate immune response. <i>ELife</i> , 2014, 3, .	2.8	68
113	Exploring the zebrafish embryo as an alternative model for the evaluation of liver toxicity by histopathology and expression profiling. <i>Archives of Toxicology</i> , 2013, 87, 807-823.	1.9	77
114	A zebrafish high throughput screening system used for <i>Staphylococcus epidermidis</i> infection marker discovery. <i>BMC Genomics</i> , 2013, 14, 255.	1.2	57
115	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.	1.0	38
116	Rapid metabolic screening of early zebrafish embryogenesis based on direct infusion-nanoESI-FTMS. <i>Metabolomics</i> , 2013, 9, 864-873.	1.4	21
117	The embryonic expression patterns of zebrafish genes encoding LysM-domains. <i>Gene Expression Patterns</i> , 2013, 13, 212-224.	0.3	21
118	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.	1.2	110
119	Parallel deep transcriptome and proteome analysis of zebrafish larvae. <i>BMC Research Notes</i> , 2013, 6, 428.	0.6	14
120	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.	1.2	145
121	The king cobra genome reveals dynamic gene evolution and adaptation in the snake venom system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20651-20656.	3.3	412
122	Robotic injection of zebrafish embryos for high-throughput screening in disease models. <i>Methods</i> , 2013, 62, 246-254.	1.9	84
123	In Vitro and In Vivo Supramolecular Modification of Biomembranes Using a Lipidated Coiled-Coil Motif. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14247-14251.	7.2	54
124	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.	0.4	60
125	Generation of Constitutive Active ERK Mutants as Tools for Cancer Research in Zebrafish. , 2013, 2013, 1-11.		2
126	Deep RNA Sequencing of the Skeletal Muscle Transcriptome in Swimming Fish. <i>PLoS ONE</i> , 2013, 8, e53171.	1.1	62

#	ARTICLE	IF	CITATIONS
127	The Pituitary Gland of the European Eel Reveals Massive Expression of Genes Involved in the Melanocortin System. PLoS ONE, 2013, 8, e77396.	1.1	15
128	Pathogen Recognition and Activation of the Innate Immune Response in Zebrafish. Advances in Hematology, 2012, 2012, 1-19.	0.6	157
129	Infection of Zebrafish Embryos with Intracellular Bacterial Pathogens. Journal of Visualized Experiments, 2012, , .	0.2	176
130	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
131	Comparison of the Exomes of Common Carp (<i>Cyprinus carpio</i>) and Zebrafish (<i>Danio</i>) Tj ETQq1 1 0.784314_rgBT /Overlock 10 0.5 90	0.5	90
132	First draft genome sequence of the Japanese eel, <i>Anguilla japonica</i> . Gene, 2012, 511, 195-201.	1.0	99
133	Primitive Duplicate Hox Clusters in the European Eel's Genome. PLoS ONE, 2012, 7, e32231.	1.1	128
134	Crystal structure of the TLDC domain of oxidation resistance protein 2 from zebrafish. Proteins: Structure, Function and Bioinformatics, 2012, 80, 1694-1698.	1.5	31
135	An osteosarcoma zebrafish model implicates <i>Mmp19</i> and <i>Ets1</i> as well as reduced host immune response in angiogenesis and migration. Journal of Pathology, 2012, 227, 245-253.	2.1	28
136	Neutrophil-mediated experimental metastasis is enhanced by VEGFR inhibition in a zebrafish xenograft model. Journal of Pathology, 2012, 227, 431-445.	2.1	158
137	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
138	Quantitative bioassays for measuring biologically functional gonadotropins based on eel gonadotropic receptors. General and Comparative Endocrinology, 2012, 178, 145-152.	0.8	14
139	Using Multiobjective Optimization and Energy Minimization to Design an Isoform-Selective Ligand of the 14-3-3 Protein. Lecture Notes in Computer Science, 2012, , 12-24.	1.0	4
140	Automated Whole Animal Bio-Imaging Assay for Human Cancer Dissemination. PLoS ONE, 2012, 7, e31281.	1.1	76
141	Conserved Expression Signatures between Medaka and Human Pigment Cell Tumors. PLoS ONE, 2012, 7, e37880.	1.1	35
142	Quantification of GPCR internalization by single-molecule microscopy in living cells. Integrative Biology (United Kingdom), 2011, 3, 675.	0.6	26
143	Infectious Disease Modeling and Innate Immune Function in Zebrafish Embryos. Methods in Cell Biology, 2011, 105, 273-308.	0.5	86
144	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

#	ARTICLE	IF	CITATIONS
145	Dextran based photodegradable hydrogels formed via a Michael addition. <i>Soft Matter</i> , 2011, 7, 4881.	1.2	113
146	Random Scission of Polymers: Numerical Simulations, and Experiments on Hyaluronan Hydrolysis. <i>Macromolecules</i> , 2011, 44, 2559-2567.	2.2	12
147	A High-Throughput Screen for Tuberculosis Progression. <i>PLoS ONE</i> , 2011, 6, e16779.	1.1	101
148	Identification of Common Carp Innate Immune Genes with Whole-Genome Sequencing and RNA-Seq Data. <i>Journal of Integrative Bioinformatics</i> , 2011, 8, 165-175.	1.0	23
149	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.	0.6	12
150	Purification, crystallization and preliminary crystallographic studies of the TLDC domain of oxidation resistance protein 2 from zebrafish. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 1253-1256.	0.7	6
151	First artificial hybrid of the eel species <i>Anguilla australis</i> and <i>Anguilla anguilla</i> . <i>BMC Developmental Biology</i> , 2011, 11, 16.	2.1	28
152	The epigenetic regulator Histone Deacetylase 1 promotes transcription of a core neurogenic programme in zebrafish embryos. <i>BMC Genomics</i> , 2011, 12, 24.	1.2	60
153	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.	0.9	85
154	A "Raf1"ER-inducible oncogenic zebrafish liver cell model identifies hepatocellular carcinoma signatures. <i>Journal of Pathology</i> , 2011, 225, 19-28.	2.1	18
155	Zebrafish embryos and larvae: A new generation of disease models and drug screens. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2011, 93, 115-133.	3.6	196
156	Host-Pathogen Interactions Made Transparent with the Zebrafish Model. <i>Current Drug Targets</i> , 2011, 12, 1000-1017.	1.0	232
157	Identification of common carp innate immune genes with whole-genome sequencing and RNA-Seq data. <i>Journal of Integrative Bioinformatics</i> , 2011, 8, 169.	1.0	12
158	Abstract 4295: High-throughput screening of osteosarcoma progression: A zebrafish model. , 2011, , .		0
159	Macrophage-specific gene functions in Spi1-directed innate immunity. <i>Blood</i> , 2010, 116, e1-e11.	0.6	172
160	Transcriptome analysis of Traf6 function in the innate immune response of zebrafish embryos. <i>Molecular Immunology</i> , 2010, 48, 179-190.	1.0	55
161	Swimming suppresses hepatic vitellogenesis in European female silver eels as shown by expression of the estrogen receptor 1, vitellogenin1 and vitellogenin2 in the liver. <i>Reproductive Biology and Endocrinology</i> , 2010, 8, 27.	1.4	16
162	Integrating heterogeneous sequence information for transcriptome-wide microarray design; a Zebrafish example. <i>BMC Research Notes</i> , 2010, 3, 192.	0.6	7

#	ARTICLE	IF	CITATIONS
163	RNA isolation method for single embryo transcriptome analysis in zebrafish. BMC Research Notes, 2010, 3, 73.	0.6	41
164	Temporal expression of hepatic estrogen receptor 1, vitellogenin1 and vitellogenin2 in European silver eels. General and Comparative Endocrinology, 2010, 166, 1-11.	0.8	32
165	Identification of <i>hoxb1b</i> downstream genes: <i>hoxb1b</i> as a regulatory factor controlling transcriptional networks and cell movement during zebrafish gastrulation. International Journal of Developmental Biology, 2010, 54, 55-62.	0.3	14
166	<i>In Vivo</i> Magnetic Resonance Imaging to Detect Malignant Melanoma in Adult Zebrafish. Zebrafish, 2010, 7, 143-148.	0.5	20
167	Cyclodextrin/dextran based drug carriers for a controlled release of hydrophobic drugs in zebrafish embryos. Soft Matter, 2010, 6, 3778.	1.2	39
168	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
169	Zebrafish development and regeneration: new tools for biomedical research. International Journal of Developmental Biology, 2009, 53, 835-850.	0.3	143
170	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
171	In vivo metabolite profile of adult zebrafish brain obtained by high-resolution localized magnetic resonance spectroscopy. Journal of Magnetic Resonance Imaging, 2009, 29, 275-281.	1.9	28
172	Photothermal Correlation Spectroscopy of Gold Nanoparticles in Solution. Journal of Physical Chemistry C, 2009, 113, 11451-11457.	1.5	51
173	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
174	Deep sequencing of the zebrafish transcriptome response to mycobacterium infection. Molecular Immunology, 2009, 46, 2918-2930.	1.0	203
175	Single-Molecule Microscopy Reveals Membrane Microdomain Organization of Cells in a Living Vertebrate. Biophysical Journal, 2009, 97, 1206-1214.	0.2	53
176	Zebrafish reward mutants reveal novel transcripts mediating the behavioral effects of amphetamine. Genome Biology, 2009, 10, R81.	13.9	71
177	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
178	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
179	Male silver eels mature by swimming. BMC Physiology, 2008, 8, 14.	3.6	22
180	Photothermal Detection of Individual Gold Nanoparticles: Perspectives for High-Throughput Screening. ChemPhysChem, 2008, 9, 1761-1766.	1.0	20

#	ARTICLE	IF	CITATIONS
181	ERK1 and ERK2 MAPK are key regulators of distinct gene sets in zebrafish embryogenesis. <i>BMC Genomics</i> , 2008, 9, 196.	1.2	43
182	Distinct functions for ERK1 and ERK2 in cell migration processes during zebrafish gastrulation. <i>Developmental Biology</i> , 2008, 319, 370-383.	0.9	61
183	Candidates for membrane progesterin receptors—Past approaches and future challenges. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2008, 148, 381-389.	1.3	72
184	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.	1.0	124
185	A spatially restricted increase in receptor mobility is involved in directional sensing during <i>Dictyostelium discoideum</i> chemotaxis. <i>Journal of Cell Science</i> , 2008, 121, 1750-1757.	1.2	33
186	Analysis of Interactions of Signaling Proteins with Phage-Displayed Ligands by Fluorescence Correlation Spectroscopy. <i>Journal of Biomolecular Screening</i> , 2008, 13, 766-776.	2.6	3
187	Discovery of a Functional Glucocorticoid Receptor β -Isoform in Zebrafish. <i>Endocrinology</i> , 2008, 149, 1591-1599.	1.4	144
188	Single-Molecule Imaging of Cellular Signaling. <i>Springer Series in Biophysics</i> , 2008, , 107-129.	0.4	2
189	Characterization of Genomic Clones and Expression Analysis of the Three Types of Superoxide Dismutases During Nodule Development in <i>Lotus japonicus</i> . <i>Molecular Plant-Microbe Interactions</i> , 2007, 20, 262-275.	1.4	46
190	DNA computing of solutions to knapsack problems. <i>BioSystems</i> , 2007, 88, 156-162.	0.9	31
191	Expression analysis of the family of 14-3-3 proteins in zebrafish development. <i>Gene Expression Patterns</i> , 2007, 7, 511-520.	0.3	10
192	Genetic and Transcriptome Characterization of Model Zebrafish Cell Lines. <i>Zebrafish</i> , 2006, 3, 441-453.	0.5	33
193	ZebraFISH: Fluorescent In Situ Hybridization Protocol and Three-Dimensional Imaging of Gene Expression Patterns. <i>Zebrafish</i> , 2006, 3, 465-476.	0.5	52
194	Magnetic Resonance Microscopy of the Adult Zebrafish. <i>Zebrafish</i> , 2006, 3, 431-439.	0.5	61
195	Functions of the MAPK family in vertebrate-development. <i>FEBS Letters</i> , 2006, 580, 4984-4990.	1.3	200
196	Single-Molecule Diffusion Reveals Similar Mobility for the Lck, H-Ras, and K-Ras Membrane Anchors. <i>Biophysical Journal</i> , 2006, 91, 1090-1097.	0.2	72
197	Novel interaction of selenium-binding protein with glyceraldehyde-3-phosphate dehydrogenase and fructose-bisphosphate aldolase of <i>Arabidopsis thaliana</i> . <i>Functional Plant Biology</i> , 2006, 33, 847.	1.1	12
198	The Production of Species-Specific Highly Unsaturated Fatty Acyl-Containing LCOs from <i>Rhizobium leguminosarum</i> bv. <i>trifolii</i> Is Stringently Regulated by <i>nodD</i> and Involves the <i>nodRL</i> Genes. <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 215-226.	1.4	9

#	ARTICLE	IF	CITATIONS
199	cDNA array analysis of stress-induced gene expression in barley androgenesis. <i>Physiologia Plantarum</i> , 2006, 127, 535-550.	2.6	76
200	Structural identification of the iipo-chitin oligosaccharide nodulation signals of <i>Rhizobium loti</i> . <i>Molecular Microbiology</i> , 2006, 15, 627-638.	1.2	154
201	Cloning, functional expression and characterization of <i>Mesorhizobium loti</i> arylamine N-acetyltransferases: rhizobial symbiosis supplies leguminous plants with the xenobiotic N-acetylation pathway. <i>Molecular Microbiology</i> , 2006, 60, 505-512.	1.2	33
202	Application of Mismatch Detection Methods in DNA Computing. <i>Natural Computing</i> , 2006, 5, 151-163.	1.8	1
203	Characterization and expression patterns of the MAPK family in zebrafish. <i>Gene Expression Patterns</i> , 2006, 6, 1019-1026.	0.3	78
204	MyD88 Innate Immune Function in a Zebrafish Embryo Infection Model. <i>Infection and Immunity</i> , 2006, 74, 2436-2441.	1.0	169
205	Analysis of Promoter Activity of the Early Nodulin Enod40 in <i>Lotus japonicus</i> . <i>Molecular Plant-Microbe Interactions</i> , 2005, 18, 414-427.	1.4	32
206	Genomic annotation and transcriptome analysis of the zebrafish (<i>Danio rerio</i>) hox complex with description of a novel member, <i>hoxb13a</i> . <i>Evolution & Development</i> , 2005, 7, 362-375.	1.1	27
207	Time-lapse tracking of barley androgenesis reveals position-determined cell death within pro-embryos. <i>Planta</i> , 2005, 220, 531-540.	1.6	43
208	Programmed cell death during the transition from multicellular structures to globular embryos in barley androgenesis. <i>Planta</i> , 2005, 221, 459-470.	1.6	33
209	Protein output for DNA computing. <i>Natural Computing</i> , 2005, 4, 1-10.	1.8	16
210	Single-molecule diffusion measurements of H-Ras at the plasma membrane of live cells reveal microdomain localization upon activation. <i>Journal of Cell Science</i> , 2005, 118, 1799-1809.	1.2	109
211	Gene expression profiling of the long-term adaptive response to hypoxia in the gills of adult zebrafish. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R1512-R1519.	0.9	186
212	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.	1.0	129
213	Genomic annotation and expression analysis of the zebrafish Rho small GTPase family during development and bacterial infection. <i>Genomics</i> , 2005, 86, 25-37.	1.3	51
214	Androgenic switch: an example of plant embryogenesis from the male gametophyte perspective. <i>Journal of Experimental Botany</i> , 2005, 56, 1711-1726.	2.4	183
215	Lotus-related species and their agronomic importance. , 2005, , 25-37.		34
216	The <i>Arabidopsis</i> selenium-binding protein confers tolerance to toxic levels of selenium. <i>Functional Plant Biology</i> , 2005, 32, 881.	1.1	45

#	ARTICLE	IF	CITATIONS
217	Mapping and map-based cloning. , 2005, , 217-232.		4
218	Induction of hairy roots for symbiotic gene expression studies. , 2005, , 261-277.		36
219	Concurrent visualization of gusA and lacZ reporter gene expression. , 2005, , 99-109.		4
220	Application of Mismatch Detection Methods in DNA Computing. Lecture Notes in Computer Science, 2005, , 159-168.	1.0	0
221	DNA computing using single-molecule hybridization detection. Nucleic Acids Research, 2004, 32, 4962-4968.	6.5	26
222	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
223	Different subcellular localization and trafficking properties of KNOX class 1 homeodomain proteins from rice. Plant Molecular Biology, 2004, 55, 781-796.	2.0	26
224	Isoform-specific differences in rapid nucleocytoplasmic shuttling cause distinct subcellular distributions of 14-3-3 β and 14-3-3 η . Journal of Cell Science, 2004, 117, 1411-1420.	1.2	59
225	In vivo plasma membrane organization: results of biophysical approaches. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1664, 119-131.	1.4	85
226	Specific recognition of bacteria by plant LysM domain receptor kinases. Trends in Microbiology, 2004, 12, 201-204.	3.5	30
227	Expression analysis of the Toll-like receptor and TIR domain adaptor families of zebrafish. Molecular Immunology, 2004, 40, 773-783.	1.0	477
228	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
229	Different subcellular localization and trafficking properties of KNOX class 1 homeodomain proteins from rice. Plant Molecular Biology, 2004, 55, 781-96.	2.0	12
230	Auxin distribution in Lotus japonicus during root nodule development. Plant Molecular Biology, 2003, 52, 1169-1180.	2.0	130
231	A Catalogue of Molecular, Physiological and Symbiotic Properties of Soybean-Nodulating Rhizobial Strains from Different Soybean Cropping Areas of China. Systematic and Applied Microbiology, 2003, 26, 453-465.	1.2	21
232	DNA computing by blocking. Theoretical Computer Science, 2003, 292, 653-665.	0.5	33
233	14-3-3 isoforms and pattern formation during barley microspore embryogenesis. Journal of Experimental Botany, 2003, 54, 1033-1043.	2.4	37
234	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

#	ARTICLE	IF	CITATIONS
235	Structural motifs in the RNA encoded by the early nodulation gene <i>enod40</i> of soybean. <i>Nucleic Acids Research</i> , 2003, 31, 5003-5015.	6.5	39
236	Specific activation of ERK pathways by chitin oligosaccharides in embryonic zebrafish cell lines. <i>Glycobiology</i> , 2003, 13, 725-732.	1.3	23
237	<title>Data submission of 3D image sets to a bio-molecular database using active shape models and a 3D reference model for projection</title>. , 2003, 5304, 13.		3
238	Alfalfa nodulation by <i>Sinorhizobium fredii</i> does not require sulfated Nod-factors. <i>Functional Plant Biology</i> , 2003, 30, 1219.	1.1	7
239	Genetic Analysis of a pH-Regulated Operon from <i>Rhizobium tropici</i> CIAT899 Involved in Acid Tolerance and Nodulation Competitiveness. <i>Molecular Plant-Microbe Interactions</i> , 2003, 16, 159-168.	1.4	96
240	<i>Lotus japonicus</i> Gene <i>Ljsbp</i> Is Highly Conserved Among Plants and Animals and Encodes a Homologue to the Mammalian Selenium-Binding Proteins. <i>Molecular Plant-Microbe Interactions</i> , 2002, 15, 313-322.	1.4	38
241	A receptor in symbiotic dialogue. <i>Nature</i> , 2002, 417, 910-911.	13.7	24
242	Synthesis and biological evaluation of oligosaccharides related to the molecule signals in plant defence and the <i>Rhizobium-legume</i> symbiosis. <i>Tetrahedron</i> , 2002, 58, 521-530.	1.0	5
243	Novel lipochitin oligosaccharide structures produced by <i>Rhizobium etli</i> KIM5s. <i>Carbohydrate Research</i> , 2002, 337, 1193-1202.	1.1	15
244	Effect of pH and soybean cultivars on the quantitative analyses of soybean rhizobia populations. <i>Journal of Biotechnology</i> , 2001, 91, 243-255.	1.9	58
245	Single-Molecule Imaging of L-Type Ca ²⁺ Channels in Live Cells. <i>Biophysical Journal</i> , 2001, 81, 2639-2646.	0.2	179
246	Cell Biological Changes of Outer Cortical Root Cells in Early Determinate Nodulation. <i>Molecular Plant-Microbe Interactions</i> , 2001, 14, 839-847.	1.4	64
247	Mutants in the <i>nodFEL</i> promoter of <i>Rhizobium leguminosarum</i> bv. <i>viciae</i> reveal a role of individual nucleotides in transcriptional activation and protein binding. <i>Archives of Microbiology</i> , 2001, 175, 152-160.	1.0	7
248	Proteins involved in the production and perception of oligosaccharides in relation to plant and animal development. <i>Current Opinion in Structural Biology</i> , 2001, 11, 608-616.	2.6	47
249	Rhizobial NodL O ⁻ Acetyl Transferase and NodS N ⁻ Methyl Transferase Functionally Interfere in Production of Modified Nod Factors. <i>Journal of Bacteriology</i> , 2001, 183, 3408-3416.	1.0	15
250	A <i>Lotus japonicus</i> Nodulation System Based on Heterologous Expression of the Fucosyl Transferase NodZ and the Acetyl Transferase NodL in <i>Rhizobium leguminosarum</i> . <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 475-479.	1.4	53
251	<i>Lotus japonicus</i> Contains Two Distinct ENOD40 Genes That Are Expressed in Symbiotic, Nonsymbiotic, and Embryonic Tissues. <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 987-994.	1.4	53
252	Growth Temperature Regulation of Host-Specific Modifications of Rhizobial Lipo-Chitin Oligosaccharides: The Function of <i>nodX</i> Is Temperature Regulated. <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 808-820.	1.4	16

#	ARTICLE	IF	CITATIONS
253	Use of Green Fluorescent Protein Color Variants Expressed on Stable Broad-Host-Range Vectors to Visualize Rhizobia Interacting with Plants. <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 1163-1169.	1.4	140
254	Nod Factors of <i>Rhizobium leguminosarum</i> bv. <i>viciae</i> and Their Fucosylated Derivatives Stimulate a Nod Factor Cleaving Activity in Pea Roots and Are Hydrolyzed In Vitro by Plant Chitinases at Different Rates. <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 799-807.	1.4	47
255	Computing with DNA by operating on plasmids. <i>BioSystems</i> , 2000, 57, 87-93.	0.9	147
256	Heterologous Rhizobial Lipochitin Oligosaccharides and Chitin Oligomers Induce Cortical Cell Divisions in Red Clover Roots, Transformed with the Pea Lectin Gene. <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 268-276.	1.4	55
257	Root Nodulation and Infection Factors Produced by Rhizobial Bacteria. <i>Annual Review of Microbiology</i> , 2000, 54, 257-288.	2.9	431
258	Use of GFP to Study Factors Involved in the <i>Lotus japonicus</i> Symbiosis. , 2000, , 219-222.		1
259	Mutation in GDP-Fucose Synthesis Genes of <i>Sinorhizobium fredii</i> Alters Nod Factors and Significantly Decreases Competitiveness to Nodulate Soybeans. <i>Molecular Plant-Microbe Interactions</i> , 1999, 12, 207-217.	1.4	64
260	Knocking out nodules. <i>Nature</i> , 1999, 402, 135-136.	13.7	7
261	Structural characterisation of lipo-chitin oligosaccharides isolated from <i>Bradyrhizobium aspalati</i> , microsymbionts of commercially important South African legumes. <i>Carbohydrate Research</i> , 1999, 317, 155-163.	1.1	29
262	Chemical synthesis of N-acetylglucosamine derivatives and their use as glycosyl acceptors by the <i>Mesorhizobium loti</i> chitin oligosaccharide synthase NodC. <i>Carbohydrate Research</i> , 1999, 321, 176-189.	1.1	18
263	Biosynthesis of Lipo-chitin Oligosaccharides: Bacterial Signal Molecules Which Induce Plant Organogenesis. , 1999, , 325-344.		1
264	Chitin Oligosaccharide Synthesis by Rhizobia and Zebrafish Embryos Starts by Glycosyl Transfer to O4 of the Reducing-Terminal Residue. <i>Biochemistry</i> , 1999, 38, 4045-4052.	1.2	60
265	Comparison of Characteristics of the nodX Genes from Various <i>Rhizobium leguminosarum</i> Strains. <i>Molecular Plant-Microbe Interactions</i> , 1999, 12, 252-258.	1.4	33
266	Lipochitin Oligosaccharides from <i>Rhizobium leguminosarum</i> bv. <i>viciae</i> Reduce Auxin Transport Capacity in <i>Vicia sativa</i> subsp. <i>nigra</i> Roots. <i>Molecular Plant-Microbe Interactions</i> , 1999, 12, 839-844.	1.4	114
267	Function of chitin oligosaccharides in plant and animal development. , 1999, 87, 71-83.		15
268	Fusions between green fluorescent protein and beta-glucuronidase as sensitive and vital bifunctional reporters in plants. <i>Plant Molecular Biology</i> , 1998, 37, 715-727.	2.0	33
269	Title is missing!. <i>Plant Molecular Biology</i> , 1998, 38, 917-917.	2.0	0
270	Fusions between green fluorescent protein and beta-glucuronidase as sensitive and vital bifunctional reporters in plants. <i>Plant Molecular Biology</i> , 1998, 38, 861-873.	2.0	31

#	ARTICLE	IF	CITATIONS
271	Genes and signal molecules involved in the rhizobiaLeguminoseae symbiosis. Current Opinion in Plant Biology, 1998, 1, 353-359.	3.5	106
272	Expression of Rhizobium Chitin Oligosaccharide Fucosyltransferase in Zebrafish Embryos Disrupts Normal Developmenta,. Annals of the New York Academy of Sciences, 1998, 842, 49-54.	1.8	6
273	Functional analysis of an interspecies chimera of acyl carrier proteins indicates a specialized domain for protein recognition. Molecular Genetics and Genomics, 1998, 257, 641-648.	2.4	30
274	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
275	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
276	Novel Branched Nod Factor Structure Results from $\hat{1}\pm-(1\hat{1}\dagger'3)$ Fucosyl Transferase Activity:Â The Major Lipo-Chitin Oligosaccharides fromMesorhizobiumlotiStrain NZP2213 Bear an $\hat{1}\pm-(1\hat{1}\dagger'3)$ Fucosyl Substituent on a Nonterminal Backbone Residueâ€. Biochemistry, 1998, 37, 9024-9032.	1.2	57
277	Biosynthesis and Secretion of Rhizobial Lipochitin-Oligosaccharide Signal Molecules. Sub-Cellular Biochemistry, 1998, 29, 29-71.	1.0	23
278	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
279	NodFE-Dependent Fatty Acids That Lack an $\hat{1}\pm-\hat{1}^2$ Unsaturation Are Subject to Differential Transfer, Leading to Novel Phospholipids. Molecular Plant-Microbe Interactions, 1998, 11, 33-44.	1.4	17
280	Restriction of Host Range by the sym2 Allele of Afghan Pea Is Nonspecific for the Type of Modification at the Reducing Terminus of Nodulation Signals. Molecular Plant-Microbe Interactions, 1998, 11, 418-422.	1.4	27
281	Flavonoids as Regulators of Plant Development. , 1998, , 167-177.		4
282	Diversity of Root Nodulation and Rhizobial Infection Processes. , 1998, , 347-360.		28
283	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
284	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
285	Ethylene as a regulator of Rhizobium infection. Trends in Plant Science, 1997, 2, 203-204.	4.3	35
286	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
287	Structural determination of the lipo-chitin oligosaccharide nodulation signals produced by Rhizobium fredii HH103. Carbohydrate Research, 1997, 303, 435-443.	1.1	36
288	Biosynthesis and Host Specificity of Rhizobial Lipo-Chitin Oligosaccharide Signal Molecules. , 1997, , 1-26.		1

#	ARTICLE	IF	CITATIONS
289	Induction of root cortical cell divisions by heterologous nodulation factors. , 1997, , 47-50.		0
290	Regulation of plant morphogenesis by Lipo- ϵ -Chitin oligosaccharides. Critical Reviews in Plant Sciences, 1996, 15, 559-582.	2.7	56
291	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
292	Rhizobium leguminosarum bv. trifolii produces Lipo-chitin Oligosaccharides with nodE-dependent Highly Unsaturated Fatty Acyl Moieties. Journal of Biological Chemistry, 1996, 271, 22563-22569.	1.6	29
293	Rhizobium. Molecular Genetics and Genomics, 1996, 251, 44.	2.4	4
294	Regulation of Plant Morphogenesis by Lipo-Chitin Oligosaccharides. Critical Reviews in Plant Sciences, 1996, 15, 559-582.	2.7	95
295	Characterization of <i>Rhizobium tropici</i> CIAT899 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
296	Structural Determination and Biosynthetic Studies of the Rhizobial Nod Metabolites: The Lipo-Chitin Oligosaccharides. , 1996, , 385-401.		0
297	Substrate Specificity and Kinetic Studies of Nodulation Protein NodL of Rhizobium leguminosarum. Biochemistry, 1995, 34, 12712-12720.	1.2	29
298	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
299	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
300	Uridine, a cell division factor in pea roots. Plant Molecular Biology, 1995, 29, 869-873.	2.0	61
301	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
302	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
303	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
304	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
305	Root Hair Deformation Activity of Nodulation Factors and Their Fate on Vicia sativa. Plant Physiology, 1994, 105, 787-797.	2.3	237
306	Role of rhizobial lipo-oligosaccharides in root nodule formation on leguminous plants. Plant and Soil, 1994, 161, 81-89.	1.8	6

#	ARTICLE	IF	CITATIONS
307	Role of rhizobial lipo-chitin oligosaccharide signal molecules in root nodule organogenesis. <i>Plant Molecular Biology</i> , 1994, 26, 1413-1422.	2.0	52
308	The molecular basis of the host specificity of the <i>Rhizobium</i> bacteria. <i>Antonie Van Leeuwenhoek</i> , 1994, 65, 81-98.	0.7	27
309	Nodulation protein NodL of <i>Rhizobium leguminosarum</i> O-acetylates lipo-oligosaccharides, chitin fragments and N-acetylglucosamine in vitro. <i>Molecular Microbiology</i> , 1994, 11, 793-804.	1.2	96
310	Structural identification of metabolites produced by the NodB and NodC proteins of <i>Rhizobium leguminosarum</i> . <i>Molecular Microbiology</i> , 1994, 13, 821-831.	1.2	98
311	Role of rhizobial lipo-oligosaccharides in root nodule formation on leguminous plants. , 1994, , 81-89.		0
312	Role of rhizobial lipo-chitin oligosaccharide signal molecules in root nodule organogenesis. , 1994, , 177-186.		0
313	Lipo-oligosaccharides of <i>Rhizobium</i> induce infection-related early nodulin gene expression in pea root hairs. <i>Plant Journal</i> , 1993, 4, 727-733.	2.8	153
314	<i>Rhizobium</i> Lipooligosaccharides Rescue a Carrot Somatic Embryo Mutant. <i>Plant Cell</i> , 1993, 5, 615.	3.1	58
315	The Function of the Rhizobial NodABC and NodFEL Operons in the Biosynthesis of Lipo-Oligosaccharides. <i>Current Plant Science and Biotechnology in Agriculture</i> , 1993, , 165-170.	0.0	13
316	<i>Rhizobium</i> Nod Metabolites and Early Nodulin Gene Expression. <i>Current Plant Science and Biotechnology in Agriculture</i> , 1993, , 365-368.	0.0	0
317	A 2-O-methylfucose moiety is present in the lipo-oligosaccharide nodulation signal of <i>Bradyrhizobium japonicum</i> .. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 8789-8793.	3.3	201
318	Induction of Pre-Infection Thread Structures in the Leguminous Host Plant by Mitogenic Lipo-Oligosaccharides of <i>Rhizobium</i> . <i>Science</i> , 1992, 257, 70-72.	6.0	337
319	Rhizobial lipo-oligosaccharides: answers and questions. <i>Plant Molecular Biology</i> , 1992, 20, 977-986.	2.0	137
320	Detection and Separation of <i>Rhizobium</i> and <i>Bradyrhizobium</i> Nod Metabolites Using Thin-Layer Chromatography. <i>Molecular Plant-Microbe Interactions</i> , 1992, 5, 72.	1.4	127
321	Isolation of the <i>Rhizobium leguminosarum</i> NodF nodulation protein: NodF carries a 4'-phosphopantetheine prosthetic group. <i>Journal of Bacteriology</i> , 1991, 173, 2872-2878.	1.0	95
322	A novel highly unsaturated fatty acid moiety of lipo-oligosaccharide signals determines host specificity of <i>Rhizobium</i> . <i>Nature</i> , 1991, 354, 125-130.	13.7	576
323	A biovar-specific signal of <i>Rhizobium leguminosarum</i> bv. <i>viciae</i> induces increased nodulation gene-inducing activity in root exudate of <i>Vicia sativa</i> subsp. <i>nigra</i> . <i>Journal of Bacteriology</i> , 1990, 172, 5394-5401.	1.0	107
324	The ENOD12 gene product is involved in the infection process during the pea-rhizobium interaction. <i>Cell</i> , 1990, 60, 281-294.	13.5	293

#	ARTICLE	IF	CITATIONS
325	Regulatory steps in nodulation by <i>Rhizobium leguminosarum</i> bv <i>viciae</i> . , 1990, , 215-218.		1
326	Symbiotic properties of rhizobia containing a flavonoid-independent hybrid nodD product. <i>Journal of Bacteriology</i> , 1989, 171, 4045-4053.	1.0	107
327	Subcellular localization of the nodD gene product in <i>Rhizobium leguminosarum</i> . <i>Journal of Bacteriology</i> , 1989, 171, 4686-4693.	1.0	75
328	Additional nodulation genes on the Sym plasmid of <i>Rhizobium leguminosarum</i> biovar <i>viciae</i> . <i>Plant Molecular Biology</i> , 1989, 13, 163-174.	2.0	47
329	Localization of functional regions of the <i>Rhizobium</i> nodD product using hybrid nodD genes. <i>Plant Molecular Biology</i> , 1989, 12, 59-73.	2.0	80
330	nodO, a new nod gene of the <i>Rhizobium leguminosarum</i> biovar <i>viciae</i> sym plasmid pRL1Jl, encodes a secreted protein. <i>Journal of Bacteriology</i> , 1989, 171, 6764-6770.	1.0	76
331	The <i>Rhizobium</i> Node Protein as a Major Determinant of Host Specificity. NATO ASI Series Series H, <i>Cell Biology</i> , 1989, , 359-366.	0.5	1
332	Regulation of Nod Gene Expression: The Role of Nod D Protein. NATO ASI Series Series H, <i>Cell Biology</i> , 1989, , 137-144.	0.5	0
333	Flavonoid Compounds as Molecular Signals in <i>Rhizobium</i> " Legume Symbiosis. , 1988, , 189-205.		5
334	Induction of the nodA promoter of <i>Rhizobium leguminosarum</i> Sym plasmid pRL1Jl by plant flavanones and flavones. <i>Journal of Bacteriology</i> , 1987, 169, 198-204.	1.0	167
335	Promoters in the nodulation region of the <i>Rhizobium leguminosarum</i> Sym plasmid pRL1Jl. <i>Plant Molecular Biology</i> , 1987, 9, 27-39.	2.0	631
336	<i>Rhizobium</i> nodulation gene nodD as a determinant of host specificity. <i>Nature</i> , 1987, 328, 337-340.	13.7	247
337	Structure of the <i>uvrB</i> gene of <i>Escherichia coli</i> . Homology with other DNA repair enzymes and characterization of the <i>uvrB5</i> mutation. <i>Nucleic Acids Research</i> , 1986, 14, 2877-2890.	6.5	73
338	Induction of <i>Rhizobium</i> Nod Genes by Flavonoids: Differential Adaptation of Promoter, nodD Gene and Inducers for Various Cross-Inoculation Groups. , 1986, , 123-135.		24
339	Promoters and Operon Structure of the Nodulation Region of the <i>Rhizobium Leguminosarum</i> Symbiosis Plasmid pRL1Jl. , 1986, , 55-68.		10
340	Plant-inducible virulence promoter of the <i>Agrobacterium tumefaciens</i> Ti plasmid. <i>Nature</i> , 1984, 312, 564-566.	13.7	68