

Tesfaye Wubet

List of Publications by Year in descending order

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Version: 2024-02-01

124
papers

10,043
citations

34105

52
h-index

39675

94
g-index

130
all docs

130
docs citations

130
times ranked

12623
citing authors

#	ARTICLE	IF	CITATIONS
1	Choosing and using diversity indices: insights for ecological applications from the German Biodiversity Exploratories. <i>Ecology and Evolution</i> , 2014, 4, 3514-3524.	1.9	697
2	Biodiversity at multiple trophic levels is needed for ecosystem multifunctionality. <i>Nature</i> , 2016, 536, 456-459.	27.8	526
3	Mineral vs. Organic Amendments: Microbial Community Structure, Activity and Abundance of Agriculturally Relevant Microbes Are Driven by Long-Term Fertilization Strategies. <i>Frontiers in Microbiology</i> , 2016, 7, 1446.	3.5	462
4	Impacts of species richness on productivity in a large-scale subtropical forest experiment. <i>Science</i> , 2018, 362, 80-83.	12.6	433
5	Land-use intensification causes multitrophic homogenization of grassland communities. <i>Nature</i> , 2016, 540, 266-269.	27.8	404
6	Horizon-Specific Bacterial Community Composition of German Grassland Soils, as Revealed by Pyrosequencing-Based Analysis of 16S rRNA Genes. <i>Applied and Environmental Microbiology</i> , 2010, 76, 6751-6759.	3.1	312
7	Life in leaf litter: novel insights into community dynamics of bacteria and fungi during litter decomposition. <i>Molecular Ecology</i> , 2016, 25, 4059-4074.	3.9	297
8	Interannual variation in land-use intensity enhances grassland multidiversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 308-313.	7.1	243
9	Designing forest biodiversity experiments: general considerations illustrated by a new large experiment in subtropical China. <i>Methods in Ecology and Evolution</i> , 2014, 5, 74-89.	5.2	232
10	Blind spots in global soil biodiversity and ecosystem function research. <i>Nature Communications</i> , 2020, 11, 3870.	12.8	192
11	The impact of even-aged and uneven-aged forest management on regional biodiversity of multiple taxa in European beech forests. <i>Journal of Applied Ecology</i> , 2018, 55, 267-278.	4.0	188
12	Multiple forest attributes underpin the supply of multiple ecosystem services. <i>Nature Communications</i> , 2018, 9, 4839.	12.8	182
13	Urban areas as hotspots for bees and pollination but not a panacea for all insects. <i>Nature Communications</i> , 2020, 11, 576.	12.8	177
14	Biodiversity across trophic levels drives multifunctionality in highly diverse forests. <i>Nature Communications</i> , 2018, 9, 2989.	12.8	169
15	Land-use intensity alters networks between biodiversity, ecosystem functions, and services. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28140-28149.	7.1	164
16	Effects of long-term differential fertilization on eukaryotic microbial communities in an arable soil: a multiple barcoding approach. <i>Molecular Ecology</i> , 2014, 23, 3341-3355.	3.9	163
17	Molecular diversity of arbuscular mycorrhizal fungi in relation to soil chemical properties and heavy metal contamination. <i>Environmental Pollution</i> , 2010, 158, 2757-2765.	7.5	152
18	Resource Partitioning between Bacteria, Fungi, and Protists in the Detritosphere of an Agricultural Soil. <i>Frontiers in Microbiology</i> , 2016, 7, 1524.	3.5	143

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19	Direct comparison of culture-dependent and culture-independent molecular approaches reveal the diversity of fungal endophytic communities in stems of grapevine (<i>Vitis vinifera</i>). <i>Fungal Diversity</i> , 2018, 90, 85-107.	12.3	143
20	General Relationships between Abiotic Soil Properties and Soil Biota across Spatial Scales and Different Land-Use Types. <i>PLoS ONE</i> , 2012, 7, e43292.	2.5	142
21	Linking molecular deadwood-inhabiting fungal diversity and community dynamics to ecosystem functions and processes in Central European forests. <i>Fungal Diversity</i> , 2016, 77, 367-379.	12.3	140
22	Forest Management Type Influences Diversity and Community Composition of Soil Fungi across Temperate Forest Ecosystems. <i>Frontiers in Microbiology</i> , 2015, 6, 1300.	3.5	136
23	Host plant genus-level diversity is the best predictor of ectomycorrhizal fungal diversity in a Chinese subtropical forest. <i>Molecular Ecology</i> , 2013, 22, 3403-3414.	3.9	133
24	Network Analysis Reveals Ecological Links between N-Fixing Bacteria and Wood-Decaying Fungi. <i>PLoS ONE</i> , 2014, 9, e88141.	2.5	129
25	Can We Use Functional Annotation of Prokaryotic Taxa (FAPROTAX) to Assign the Ecological Functions of Soil Bacteria?. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 688.	2.5	122
26	Locally rare species influence grassland ecosystem multifunctionality. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150269.	4.0	117
27	Protein-SIP enables time-resolved analysis of the carbon flux in a sulfate-reducing, benzene-degrading microbial consortium. <i>ISME Journal</i> , 2012, 6, 2291-2301.	9.8	109
28	Community assembly of ectomycorrhizal fungi along a subtropical secondary forest succession. <i>New Phytologist</i> , 2015, 205, 771-785.	7.3	107
29	On the combined effect of soil fertility and topography on tree growth in subtropical forest ecosystems—a study from SE China. <i>Journal of Plant Ecology</i> , 2017, 10, 111-127.	2.3	102
30	A pyrosequencing insight into sprawling bacterial diversity and community dynamics in decaying deadwood logs of <i>Fagus sylvatica</i> and <i>Picea abies</i> . <i>Scientific Reports</i> , 2015, 5, 9456.	3.3	101
31	Biodiversity of fungi on <i>Vitis vinifera</i> L. revealed by traditional and high-resolution culture-independent approaches. <i>Fungal Diversity</i> , 2018, 90, 1-84.	12.3	101
32	OakContig<sc>DF</sc>159.1, a reference library for studying differential gene expression in <i>Quercus robur</i> during controlled biotic interactions: use for quantitative transcriptomic profiling of oak roots in ectomycorrhizal symbiosis. <i>New Phytologist</i> , 2013, 199, 529-540.	7.3	97
33	pH as a Driver for Ammonia-Oxidizing Archaea in Forest Soils. <i>Microbial Ecology</i> , 2015, 69, 879-883.	2.8	95
34	Differences in Soil Fungal Communities between European Beech (<i>Fagus sylvatica</i> L.) Dominated Forests Are Related to Soil and Understory Vegetation. <i>PLoS ONE</i> , 2012, 7, e47500.	2.5	93
35	Specialisation and diversity of multiple trophic groups are promoted by different forest features. <i>Ecology Letters</i> , 2019, 22, 170-180.	6.4	92
36	Molecular evidence strongly supports deadwood-inhabiting fungi exhibiting unexpected tree species preferences in temperate forests. <i>ISME Journal</i> , 2018, 12, 289-295.	9.8	90

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37	Divergent habitat filtering of root and soil fungal communities in temperate beech forests. <i>Scientific Reports</i> , 2016, 6, 31439.	3.3	84
38	A comprehensive fungi-specific 18S rRNA gene sequence primer toolkit suited for diverse research issues and sequencing platforms. <i>BMC Microbiology</i> , 2018, 18, 190.	3.3	84
39	Metacommunity analysis of amoeboid protists in grassland soils. <i>Scientific Reports</i> , 2016, 6, 19068.	3.3	82
40	Changes in land use alter soil quality and aggregate stability in the highlands of northern Ethiopia. <i>Scientific Reports</i> , 2017, 7, 13602.	3.3	82
41	Taxonomic and phylogenetic contributions to fungi associated with the invasive weed <i>Chromolaena odorata</i> (Siam weed). <i>Fungal Diversity</i> , 2020, 101, 1-175.	12.3	82
42	Contrasting responses of above- and belowground diversity to multiple components of land-use intensity. <i>Nature Communications</i> , 2021, 12, 3918.	12.8	81
43	Functionally and phylogenetically diverse plant communities key to soil biota. <i>Ecology</i> , 2013, 94, 1878-1885.	3.2	80
44	Mycorrhizal status of indigenous trees in dry Afromontane forests of Ethiopia. <i>Forest Ecology and Management</i> , 2003, 179, 387-399.	3.2	77
45	Insights into organohalide respiration and the versatile catabolism of <i>Sulfurospirillum multivorans</i> gained from comparative genomics and physiological studies. <i>Environmental Microbiology</i> , 2014, 16, 3562-3580.	3.8	76
46	Fine Spatial Scale Variation of Soil Microbial Communities under European Beech and Norway Spruce. <i>Frontiers in Microbiology</i> , 2016, 7, 2067.	3.5	74
47	Genome sequences of two dehalogenation specialists <i>Dehalococcoides mccartyi</i> strains BTF08 and DCMB5 enriched from the highly polluted Bitterfeld region. <i>FEMS Microbiology Letters</i> , 2013, 343, 101-104.	1.8	73
48	TaqMan Real-Time PCR Assays To Assess Arbuscular Mycorrhizal Responses to Field Manipulation of Grassland Biodiversity: Effects of Soil Characteristics, Plant Species Richness, and Functional Traits. <i>Applied and Environmental Microbiology</i> , 2010, 76, 3765-3775.	3.1	72
49	Molecular diversity of arbuscular mycorrhizal fungi in <i>Prunus africana</i> , an endangered medicinal tree species in dry Afromontane forests of Ethiopia. <i>New Phytologist</i> , 2004, 161, 517-528.	7.3	71
50	Spatial Distribution of Fungal Communities in an Arable Soil. <i>PLoS ONE</i> , 2016, 11, e0148130.	2.5	63
51	Land-Use Intensity Rather Than Plant Functional Identity Shapes Bacterial and Fungal Rhizosphere Communities. <i>Frontiers in Microbiology</i> , 2018, 9, 2711.	3.5	62
52	Soil property and management effects on grassland microbial communities across a latitudinal gradient in Germany. <i>Applied Soil Ecology</i> , 2014, 73, 41-50.	4.3	57
53	Forest Age and Plant Species Composition Determine the Soil Fungal Community Composition in a Chinese Subtropical Forest. <i>PLoS ONE</i> , 2013, 8, e66829.	2.5	53
54	Mycorrhiza in tree diversity-ecosystem function relationships: conceptual framework and experimental implementation. <i>Ecosphere</i> , 2018, 9, e02226.	2.2	49

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55	Phylogenetic analysis of nuclear small subunit rDNA sequences suggests that the endangered African Pencil Cedar, <i>Juniperus procera</i> , is associated with distinct members of Glomeraceae. <i>Mycological Research</i> , 2006, 110, 1059-1069.	2.5	46
56	Correlations between the composition of modular fungal communities and litter decomposition-associated ecosystem functions. <i>Fungal Ecology</i> , 2016, 22, 106-114.	1.6	46
57	Determinants of Deadwood-Inhabiting Fungal Communities in Temperate Forests: Molecular Evidence From a Large Scale Deadwood Decomposition Experiment. <i>Frontiers in Microbiology</i> , 2018, 9, 2120.	3.5	43
58	Relationships Between Soil Microorganisms, Plant Communities, and Soil Characteristics in Chinese Subtropical Forests. <i>Ecosystems</i> , 2012, 15, 624-636.	3.4	42
59	Toward a methodical framework for comprehensively assessing forest multifunctionality. <i>Ecology and Evolution</i> , 2017, 7, 10652-10674.	1.9	41
60	Above- and belowground biodiversity jointly tighten the P cycle in agricultural grasslands. <i>Nature Communications</i> , 2021, 12, 4431.	12.8	40
61	Detection and quantification of a mycorrhization helper bacterium and a mycorrhizal fungus in plant-soil microcosms at different levels of complexity. <i>BMC Microbiology</i> , 2013, 13, 205.	3.3	39
62	Belowground top-down and aboveground bottom-up effects structure multitrophic community relationships in a biodiverse forest. <i>Scientific Reports</i> , 2017, 7, 4222.	3.3	38
63	Can multi-taxa diversity in European beech forest landscapes be increased by combining different management systems?. <i>Journal of Applied Ecology</i> , 2020, 57, 1363-1375.	4.0	38
64	The significance of tree-tree interactions for forest ecosystem functioning. <i>Basic and Applied Ecology</i> , 2021, 55, 33-52.	2.7	38
65	Land use and host neighbor identity effects on arbuscular mycorrhizal fungal community composition in focal plant rhizosphere. <i>Biodiversity and Conservation</i> , 2013, 22, 2193-2205.	2.6	37
66	Multitrophic diversity in a biodiverse forest is highly nonlinear across spatial scales. <i>Nature Communications</i> , 2015, 6, 10169.	12.8	37
67	DRomics: A Turnkey Tool to Support the Use of the Dose-Response Framework for Omics Data in Ecological Risk Assessment. <i>Environmental Science & Technology</i> , 2018, 52, 14461-14468.	10.0	37
68	Preservation of nucleic acids by freeze-drying for next generation sequencing analyses of soil microbial communities. <i>Journal of Plant Ecology</i> , 2017, 10, 81-90.	2.3	36
69	Wood decomposition is more strongly controlled by temperature than by tree species and decomposer diversity in highly species rich subtropical forests. <i>Oikos</i> , 2019, 128, 701-715.	2.7	36
70	Arbuscular mycorrhizal fungal community structures differ between co-occurring tree species of dry Afromontane tropical forest, and their seedlings exhibit potential to trap isolates suited for reforestation. <i>Mycological Progress</i> , 2009, 8, 317-328.	1.4	35
71	Characterization of Unexplored Deadwood Mycobiome in Highly Diverse Subtropical Forests Using Culture-independent Molecular Technique. <i>Frontiers in Microbiology</i> , 2017, 8, 574.	3.5	35
72	Tree species richness and fungi in freshly fallen leaf litter: Unique patterns of fungal species composition and their implications for enzymatic decomposition. <i>Soil Biology and Biochemistry</i> , 2018, 127, 120-126.	8.8	33

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73	Morphology and molecular diversity of arbuscular mycorrhizal fungi in wild and cultivated yew (<i>Taxus baccata</i>). <i>Canadian Journal of Botany</i> , 2003, 81, 255-266.	1.1	31
74	<i>Glomus africanum</i> and <i>G. iranicum</i> , two new species of arbuscular mycorrhizal fungi (Glomeromycota). <i>Mycologia</i> , 2010, 102, 1450-1462.	1.9	31
75	Phylogenetic relatedness explains highly interconnected and nested symbiotic networks of woody plants and arbuscular mycorrhizal fungi in a Chinese subtropical forest. <i>Molecular Ecology</i> , 2017, 26, 2563-2575.	3.9	31
76	Two threatened coexisting indigenous conifer species in the dry Afromontane forests of Ethiopia are associated with distinct arbuscular mycorrhizal fungal communities. <i>Canadian Journal of Botany</i> , 2006, 84, 1617-1627.	1.1	30
77	Acidotolerant Bacteria and Fungi as a Sink of Methanol-Derived Carbon in a Deciduous Forest Soil. <i>Frontiers in Microbiology</i> , 2017, 8, 1361.	3.5	28
78	Archaeal Diversity and CO ₂ Fixers in Carbonate-/Siliciclastic-Rock Groundwater Ecosystems. <i>Archaea</i> , 2017, 2017, 1-13.	2.3	28
79	Fine-scale variations of fungal community in a heterogeneous grassland in Inner Mongolia: Effects of the plant community and edaphic parameters. <i>Soil Biology and Biochemistry</i> , 2018, 122, 104-110.	8.8	28
80	Experimental Evidence of Functional Group-Dependent Effects of Tree Diversity on Soil Fungi in Subtropical Forests. <i>Frontiers in Microbiology</i> , 2018, 9, 2312.	3.5	28
81	Tree diversity and soil chemical properties drive the linkages between soil microbial community and ecosystem functioning. <i>ISME Communications</i> , 2021, 1, .	4.2	28
82	<i>Septoglomus fuscum</i> and <i>S. furcatum</i> , two new species of arbuscular mycorrhizal fungi (Glomeromycota). <i>Mycologia</i> , 2013, 105, 670-680.	1.9	27
83	Tree species, tree genotypes and tree genotypic diversity levels affect microbe-mediated soil ecosystem functions in a subtropical forest. <i>Scientific Reports</i> , 2016, 6, 36672.	3.3	27
84	Unraveling spatiotemporal variability of arbuscular mycorrhizal fungi in a temperate grassland plot. <i>Environmental Microbiology</i> , 2020, 22, 873-888.	3.8	27
85	<i>Glomus indicum</i> , a new arbuscular mycorrhizal fungus. <i>Botany</i> , 2010, 88, 132-143.	1.0	26
86	Contrasting effects of grassland management modes on species-abundance distributions of multiple groups. <i>Agriculture, Ecosystems and Environment</i> , 2017, 237, 143-153.	5.3	26
87	Increasing N deposition impacts neither diversity nor functions of deadwood-inhabiting fungal communities, but adaptation and functional redundancy ensure ecosystem function. <i>Environmental Microbiology</i> , 2018, 20, 1693-1710.	3.8	26
88	First insights into the living groundwater mycobiome of the terrestrial biogeosphere. <i>Water Research</i> , 2018, 145, 50-61.	11.3	26
89	A multi-omics concentration-response framework uncovers novel understanding of triclosan effects in the chlorophyte <i>Scenedesmus vacuolatus</i> . <i>Journal of Hazardous Materials</i> , 2020, 397, 122727.	12.4	25
90	Toward a global platform for linking soil biodiversity data. <i>Frontiers in Ecology and Evolution</i> , 0, 3, .	2.2	24

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91	Superimposed Pristine Limestone Aquifers with Marked Hydrochemical Differences Exhibit Distinct Fungal Communities. <i>Frontiers in Microbiology</i> , 2016, 7, 666.	3.5	24
92	Fungal communities in bulk soil and stone compartments of different forest and soil types as revealed by a barcoding ITS rDNA and a functional laccase encoding gene marker. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1292-1299.	8.8	22
93	Tree mycorrhizal type and tree diversity shape the forest soil microbiota. <i>Environmental Microbiology</i> , 2022, 24, 4236-4255.	3.8	22
94	Tree phylogenetic diversity structures multitrophic communities. <i>Functional Ecology</i> , 2021, 35, 521-534.	3.6	21
95	Functional land-use change effects on soil fungal communities in Chilean temperate rainforests. <i>Journal of Soil Science and Plant Nutrition</i> , 2017, 17, 985-1002.	3.4	21
96	Potential links between wood-inhabiting and soil fungal communities: Evidence from high-throughput sequencing. <i>MicrobiologyOpen</i> , 2019, 8, e00856.	3.0	18
97	Multitrophic guilds respond differently to changing elevation in a subtropical forest. <i>Ecography</i> , 2018, 41, 1013-1023.	4.5	17
98	Resident and phytometer plants host comparable rhizosphere fungal communities in managed grassland ecosystems. <i>Scientific Reports</i> , 2020, 10, 919.	3.3	16
99	National Forest Inventories capture the multifunctionality of managed forests in Germany. <i>Forest Ecosystems</i> , 2021, 8, .	3.1	16
100	Diversity Measures in Environmental Sequences Are Highly Dependent on Alignment Quality—Data from ITS and New LSU Primers Targeting Basidiomycetes. <i>PLoS ONE</i> , 2012, 7, e32139.	2.5	15
101	DNA- and RNA- Derived Fungal Communities in Subsurface Aquifers Only Partly Overlap but React Similarly to Environmental Factors. <i>Microorganisms</i> , 2019, 7, 341.	3.6	15
102	Soil bacterial communities and their associated functions for forest restoration on a limestone mine in northern Thailand. <i>PLoS ONE</i> , 2021, 16, e0248806.	2.5	15
103	Inferring interactions in complex microbial communities from nucleotide sequence data and environmental parameters. <i>PLoS ONE</i> , 2017, 12, e0173765.	2.5	15
104	Application of next-generation sequencing technologies to conservation of wood-inhabiting fungi. <i>Conservation Biology</i> , 2019, 33, 716-724.	4.7	13
105	Drivers for ammonia-oxidation along a land-use gradient in grassland soils. <i>Soil Biology and Biochemistry</i> , 2014, 69, 179-186.	8.8	12
106	<i>Funneliformis mosseae</i> alters soil fungal community dynamics and composition during litter decomposition. <i>Fungal Ecology</i> , 2020, 43, 100864.	1.6	11
107	Linking Soil Fungal Generality to Tree Richness in Young Subtropical Chinese Forests. <i>Microorganisms</i> , 2019, 7, 547.	3.6	10
108	Transition of Ethiopian highland forests to agriculture-dominated landscapes shifts the soil microbial community composition. <i>BMC Ecology</i> , 2018, 18, 58.	3.0	9

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109	Distribution of Medically Relevant Antibiotic Resistance Genes and Mobile Genetic Elements in Soils of Temperate Forests and Grasslands Varying in Land Use. <i>Genes</i> , 2020, 11, 150.	2.4	9
110	Among stand heterogeneity is key for biodiversity in managed beech forests but does not question the value of unmanaged forests: Response to Bruun and Heilmann–Clausen (2021). <i>Journal of Applied Ecology</i> , 2021, 58, 1817-1826.	4.0	8
111	Host plant richness explains diversity of ectomycorrhizal fungi: Response to the comment of Tedersoo & Aal (2014). <i>Molecular Ecology</i> , 2014, 23, 996-999.	3.9	6
112	Root-Associated Mycobiome Differentiate between Habitats Supporting Production of Different Truffle Species in Serbian Riparian Forests. <i>Microorganisms</i> , 2020, 8, 1331.	3.6	6
113	Community and neighbourhood tree species richness effects on fungal species in leaf litter. <i>Fungal Ecology</i> , 2020, 47, 100961.	1.6	6
114	Early Stage Root-Associated Fungi Show a High Temporal Turnover, but Are Independent of Beech Progeny. <i>Microorganisms</i> , 2020, 8, 210.	3.6	5
115	Local Tree Diversity Suppresses Foliar Fungal Infestation and Decreases Morphological but Not Molecular Richness in a Young Subtropical Forest. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 173.	3.5	5
116	Genome Sequence of the Mycorrhiza Helper Bacterium <i>Streptomyces</i> sp. Strain AcH 505. <i>Genome Announcements</i> , 2015, 3, .	0.8	4
117	Common toxigenic & Fusarium & species in maize grain in Ethiopia. <i>Sinet</i> , 2000, 23, 73.	0.3	3
118	Life on the Rocks: First Insights Into the Microbiota of the Threatened Aquatic Rheophyte <i>Hansenella heterophylla</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 634960.	3.6	3
119	Contrasting protist communities (Cercozoa: Rhizaria) in pristine and earthworm-invaded North American deciduous forests. <i>Biological Invasions</i> , 2022, 24, 1345-1357.	2.4	2
120	Mycorrhization of transgenic apple trees with increased resistance against fungal pathogens. <i>BMC Proceedings</i> , 2011, 5, .	1.6	1
121	Scale–dependent impact of land management on above–and belowground biodiversity. <i>Ecology and Evolution</i> , 2020, 10, 10139-10149.	1.9	1
122	Tree diversity and functional leaf traits drive herbivore–associated microbiomes in subtropical China. <i>Ecology and Evolution</i> , 2021, 11, 6153-6166.	1.9	1
123	International Workshop of the African Network on Mycorrhiza (AFRINOM 1): advancing plant–microbe interactions in crop nutrition, integration of mycorrhiza into agroecosystems. <i>Mycorrhiza</i> , 2014, 24, 75-76.	2.8	0
124	Draft Genome Sequence of <i>Streptomyces</i> sp. Strain 150FB, a Mushroom Mycoparasite Antagonist. <i>Genome Announcements</i> , 2015, 3, .	0.8	0