

Lionel Moulin

List of Publications by Year in descending order

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64
papers

5,198
citations

156536

32
h-index

124990

64
g-index

74
all docs

74
docs citations

74
times ranked

3962
citing authors

#	ARTICLE	IF	CITATIONS
1	Enrichment in biodiversity and maturation of the soil food web under conservation agriculture is associated with suppression of rice-parasitic nematodes. <i>Agriculture, Ecosystems and Environment</i> , 2022, 331, 107913.	2.5	13
2	Differential Genetic Strategies of <i>Burkholderia vietnamiensis</i> and <i>Paraburkholderia kururiensis</i> for Root Colonization of <i>Oryza sativa</i> subsp. <i>japonica</i> and <i>O. sativa</i> subsp. <i>indica</i> , as Revealed by Transposon Mutagenesis Sequencing. <i>Applied and Environmental Microbiology</i> , 2022, 88, .	1.4	10
3	Proteomic analysis reveals how pairing of a Mycorrhizal fungus with plant growth-promoting bacteria modulates growth and defense in wheat. <i>Plant, Cell and Environment</i> , 2021, 44, 1946-1960.	2.8	26
4	Genetic Diversity of Type 3 Secretion System in <i>Burkholderia</i> s.l. and Links With Plant Host Adaptation. <i>Frontiers in Microbiology</i> , 2021, 12, 761215.	1.5	4
5	Deep modifications of the microbiome of rice roots infected by the parasitic nematode <i>Meloidogyne graminicola</i> in highly infested fields in Vietnam. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	12
6	Novel heavy metal resistance gene clusters are present in the genome of <i>Cupriavidus neocaledonicus</i> STM 6070, a new species of <i>Mimosa pudica</i> microsymbiont isolated from heavy-metal-rich mining site soil. <i>BMC Genomics</i> , 2020, 21, 214.	1.2	18
7	Influence of plant genotype and soil on the wheat rhizosphere microbiome: evidences for a core microbiome across eight African and European soils. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	123
8	An extended root phenotype: the rhizosphere, its formation and impacts on plant fitness. <i>Plant Journal</i> , 2020, 103, 951-964.	2.8	151
9	Root knot nematode infections promoted by agricultural practice modifications in Vietnam and the impacts on rice production. <i>Academia Journal of Biology</i> , 2020, 42, .	0.0	1
10	noeM, a New Nodulation Gene Involved in the Biosynthesis of Nod Factors with an Open-Chain Oxidized Terminal Residue and in the Symbiosis with <i>Mimosa pudica</i> . <i>Molecular Plant-Microbe Interactions</i> , 2019, 32, 1635-1648.	1.4	5
11	Monitoring of Rice Transcriptional Responses to Contrasted Colonizing Patterns of Phytobeneficial <i>Burkholderia</i> s.l. Reveals a Temporal Shift in JA Systemic Response. <i>Frontiers in Plant Science</i> , 2019, 10, 1141.	1.7	19
12	Arbuscular Mycorrhizal Fungi and Plant Growth Promoting Rhizobacteria Avoid Processing Tomato Leaf Damage during Chilling Stress. <i>Agronomy</i> , 2019, 9, 299.	1.3	32
13	Genomic analyses of <i>Burkholderia cenocepacia</i> reveal multiple species with differential host-adaptation to plants and humans. <i>BMC Genomics</i> , 2019, 20, 803.	1.2	47
14	Minimal standards for the description of new genera and species of rhizobia and agrobacteria. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2019, 69, 1852-1863.	0.8	170
15	Interdependency of efficient nodulation and arbuscular mycorrhization in <i>Piptadenia gonoacantha</i> , a Brazilian legume tree. <i>Plant, Cell and Environment</i> , 2018, 41, 2008-2020.	2.8	21
16	A phylogenetic framework of the legume genus <i>Aeschynomene</i> for comparative genetic analysis of the Nod-dependent and Nod-independent symbioses. <i>BMC Plant Biology</i> , 2018, 18, 333.	1.6	27
17	Transcriptomic profiling of <i>Burkholderia phymatum</i> STM815, <i>Cupriavidus taiwanensis</i> LMG19424 and <i>Rhizobium mesoamericanum</i> STM3625 in response to <i>Mimosa pudica</i> root exudates illuminates the molecular basis of their nodulation competitiveness and symbiotic evolutionary history. <i>BMC Genomics</i> , 2018, 19, 105.	1.2	32
18	Omics approaches revealed how arbuscular mycorrhizal symbiosis enhances yield and resistance to leaf pathogen in wheat. <i>Scientific Reports</i> , 2018, 8, 9625.	1.6	108

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19	Parallels between experimental and natural evolution of legume symbionts. <i>Nature Communications</i> , 2018, 9, 2264.	5.8	11
20	Symbiotic and non-symbiotic <i>Paraburkholderia</i> isolated from South African <i>Lebeckia ambigua</i> root nodules and the description of <i>Paraburkholderia fynbosensis</i> sp. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 2607-2614.	0.8	28
21	Permanent Draft Genome Sequence of <i>Rhizobium</i> sp. Strain LCM 4573, a Salt-Tolerant, Nitrogen-Fixing Bacterium Isolated from Senegalese Soils. <i>Genome Announcements</i> , 2017, 5, .	0.8	7
22	Genetic diversity of symbiotic <i>Paraburkholderia</i> species isolated from nodules of <i>Mimosa pudica</i> (L.) and <i>Phaseolus vulgaris</i> (L.) grown in soils of the Brazilian Atlantic Forest (Mata Atlântica). <i>FEMS Microbiology Ecology</i> , 2017, 93, .	1.3	25
23	Transcriptome and proteome analysis reveal new insight into proximal and distal responses of wheat to foliar infection by <i>Xanthomonas translucens</i> . <i>Scientific Reports</i> , 2017, 7, 10157.	1.6	25
24	High-quality draft genome sequence of <i>Rhizobium mesoamericanum</i> strain STM6155, a <i>Mimosa pudica</i> microsymbiont from New Caledonia. <i>Standards in Genomic Sciences</i> , 2017, 12, 7.	1.5	2
25	Permanent Draft Genome Sequence of <i>Ensifer</i> sp. Strain LCM 4579, a Salt-Tolerant, Nitrogen-Fixing Bacterium Isolated from Senegalese Soil. <i>Genome Announcements</i> , 2017, 5, .	0.8	1
26	Permanent Draft Genome Sequences for <i>Mesorhizobium</i> sp. Strains LCM 4576, LCM 4577, and ORS3428, Salt-Tolerant, Nitrogen-Fixing Bacteria Isolated from Senegalese Soils. <i>Genome Announcements</i> , 2017, 5, .	0.8	0
27	Genetic diversity of Cameroonian bread wheat (<i>Triticum aestivum</i> L.) cultivars revealed by microsatellite markers. <i>African Journal of Biotechnology</i> , 2017, 16, 1832-1839.	0.3	11
28	<i>Paraburkholderia piptadeniae</i> sp. nov. and <i>Paraburkholderia ribeironis</i> sp. nov., two root-nodulating symbiotic species of <i>Piptadenia gonoacantha</i> in Brazil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 432-440.	0.8	50
29	<i>Burkholderia novacaledonica</i> sp. nov. and <i>B. ultramafica</i> sp. nov. isolated from roots of <i>Costularia</i> spp. pioneer plants of ultramafic soils in New Caledonia. <i>Systematic and Applied Microbiology</i> , 2016, 39, 151-159.	1.2	24
30	<i>Paraburkholderia nodosa</i> is the main N ₂ -fixing species trapped by promiscuous common bean (<i>Phaseolus vulgaris</i> L.) in the Brazilian Cerradão™. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw108.	1.3	35
31	Endemic <i>Mimosa</i> species from Mexico prefer alphaproteobacterial rhizobial symbionts. <i>New Phytologist</i> , 2016, 209, 319-333.	3.5	72
32	Genetic and Genomic Diversity Studies of <i>Acacia</i> Symbionts in Senegal Reveal New Species of <i>Mesorhizobium</i> with a Putative Geographical Pattern. <i>PLoS ONE</i> , 2015, 10, e0117667.	1.1	21
33	Convergent Evolution of Endosymbiont Differentiation in Dalbergioid and Inverted Repeat-Lacking Clade Legumes Mediated by Nodule-Specific Cysteine-Rich Peptides. <i>Plant Physiology</i> , 2015, 169, 1254-1265.	2.3	136
34	The geographical patterns of symbiont diversity in the invasive legume <i>Mimosa pudica</i> can be explained by the competitiveness of its symbionts and by the host genotype. <i>Environmental Microbiology</i> , 2014, 16, 2099-2111.	1.8	55
35	Complete Genome sequence of <i>Burkholderia phymatum</i> STM815T, a broad host range and efficient nitrogen-fixing symbiont of <i>Mimosa</i> species. <i>Standards in Genomic Sciences</i> , 2014, 9, 763-774.	1.5	71
36	Evolution of symbiosis in the legume genus <i>Aeschynomene</i> . <i>New Phytologist</i> , 2013, 200, 1247-1259.	3.5	43

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37	Burkholderia diazotrophica sp. nov., isolated from root nodules of Mimosa spp.. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 435-441.	0.8	94
38	Draft Genome Sequence of Rhizobium mesoamericanum STM3625, a Nitrogen-Fixing Symbiont of <i>Mimosa pudica</i> Isolated in French Guiana (South America). Genome Announcements, 2013, 1, .	0.8	6
39	Burkholderia Species Are the Most Common and Preferred Nodulating Symbionts of the Piptadenia Group (Tribe Mimoseae). PLoS ONE, 2013, 8, e63478.	1.1	108
40	Complete Genome Sequences of Six Strains of the Genus Methylobacterium. Journal of Bacteriology, 2012, 194, 4746-4748.	1.0	99
41	Comparative Genomics of Aeschynomene Symbionts: Insights into the Ecological Lifestyle of Nod-Independent Photosynthetic Bradyrhizobia. Genes, 2012, 3, 35-61.	1.0	30
42	Genetic diversity of Mimosa pudica rhizobial symbionts in soils of French Guiana: investigating the origin and diversity of Burkholderia phymatum and other beta-rhizobia. FEMS Microbiology Ecology, 2012, 79, 487-503.	1.3	121
43	Biodiversity of Mimosa pudica rhizobial symbionts (Cupriavidus taiwanensis, Rhizobium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 505 Ecology, 2012, 81, 618-635.	1.3	72
44	Molecular and phenotypic characterization of strains nodulating Anthyllis vulneraria in mine tailings, and proposal of Aminobacter anthyllidis sp. nov., the first definition of Aminobacter as legume-nodulating bacteria. Systematic and Applied Microbiology, 2012, 35, 65-72.	1.2	55
45	Legume-Nodulating Betaproteobacteria: Diversity, Host Range, and Future Prospects. Molecular Plant-Microbe Interactions, 2011, 24, 1276-1288.	1.4	378
46	Bradyrhizobium canariense and Bradyrhizobium japonicum are the two dominant rhizobium species in root nodules of lupin and serradella plants growing in Europe. Systematic and Applied Microbiology, 2011, 34, 368-375.	1.2	54
47	Diversity analyses of <i>Aeschynomene</i> symbionts in Tropical Africa and Central America reveal that <i>nod</i> independent stem nodulation is not restricted to photosynthetic bradyrhizobia. Environmental Microbiology, 2010, 12, 2152-2164.	1.8	39
48	Phylogenetic analyses of symbiotic genes and characterization of functional traits of <i>Mesorhizobium</i> spp. strains associated with the promiscuous species <i>Acacia seyal</i> Del.. Journal of Applied Microbiology, 2010, 108, 818-830.	1.4	25
49	Genetic diversity and distribution of Bradyrhizobium and Azorhizobium strains associated with the herb legume Zornia glochidiata sampled from across Senegal. Systematic and Applied Microbiology, 2009, 32, 387-399.	1.2	19
50	Vigna mungo, V. radiata and V. unguiculata plants sampled in different agronomical "ecological" climatic regions of India are nodulated by Bradyrhizobium yuanmingense. Systematic and Applied Microbiology, 2009, 32, 460-470.	1.2	37
51	Multilocus sequence analysis of bradyrhizobia isolated from Aeschynomene species in Senegal. Systematic and Applied Microbiology, 2009, 32, 400-412.	1.2	52
52	Symbiotic properties of Methylobacterium nodulans ORS 2060T: A classic process for an atypical symbiont. Soil Biology and Biochemistry, 2008, 40, 1404-1412.	4.2	27
53	Infection of Legumes by Beta-Rhizobia. Current Plant Science and Biotechnology in Agriculture, 2008, , 249-250.	0.0	0
54	Diversification of Lupine Bradyrhizobium Strains: Evidence from Nodulation Gene Trees. Applied and Environmental Microbiology, 2007, 73, 3254-3264.	1.4	120

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55	Nickel Resistance Determinants in <i>Bradyrhizobium</i> Strains from Nodules of the Endemic New Caledonia Legume <i>Serianthes calycina</i> . <i>Applied and Environmental Microbiology</i> , 2007, 73, 8018-8022.	1.4	49
56	Legumes Symbioses: Absence of Nod Genes in Photosynthetic Bradyrhizobia. <i>Science</i> , 2007, 316, 1307-1312.	6.0	557
57	<i>Burkholderia phymatum</i> is a highly effective nitrogen-fixing symbiont of <i>Mimosa</i> spp. and fixes nitrogen ex planta. <i>New Phytologist</i> , 2007, 173, 168-180.	3.5	210
58	Nitrogen-fixing nodules from rose wood legume trees (<i>Dalbergia</i> spp.) endemic to Madagascar host seven different genera belonging to $\hat{1}\pm$ - and $\hat{1}^2$ -Proteobacteria. <i>Molecular Ecology</i> , 2005, 14, 4135-4146.	2.0	108
59	European Origin of <i>Bradyrhizobium</i> Populations Infecting Lupins and <i>Serradella</i> in Soils of Western Australia and South Africa. <i>Applied and Environmental Microbiology</i> , 2005, 71, 7041-7052.	1.4	170
60	Phylogenetic analyses of symbiotic nodulation genes support vertical and lateral gene co-transfer within the <i>Bradyrhizobium</i> genus. <i>Molecular Phylogenetics and Evolution</i> , 2004, 30, 720-732.	1.2	189
61	The Variable Part of the <i>dnaK</i> Gene as an Alternative Marker for Phylogenetic Studies of Rhizobia and Related Alpha Proteobacteria. <i>Systematic and Applied Microbiology</i> , 2003, 26, 483-494.	1.2	99
62	Legume Symbiotic Nitrogen Fixation by $\hat{1}^2$ -Proteobacteria Is Widespread in Nature. <i>Journal of Bacteriology</i> , 2003, 185, 7266-7272.	1.0	371
63	Nodulation of legumes by members of the $\hat{1}^2$ -subclass of Proteobacteria. <i>Nature</i> , 2001, 411, 948-950.	13.7	635
64	Bioestimulants and cherry rootstock increased tomato fruit yield and quality in sustainable farming systems. <i>Italian Journal of Agronomy</i> , 0, , .	0.4	5