

Paul Schulze-Lefert

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

21,240
citations

31976

53
h-index

88630

70
g-index

85
all docs

85
docs citations

85
times ranked

17427
citing authors

#	ARTICLE	IF	CITATIONS
1	Buy one, get two. <i>Nature Plants</i> , 2022, 8, 100-101.	9.3	1
2	Gnotobiotic Plant Systems for Reconstitution and Functional Studies of the Root Microbiota. <i>Current Protocols</i> , 2022, 2, e362.	2.9	6
3	Maize Field Study Reveals Covaried Microbiota and Metabolic Changes in Roots over Plant Growth. <i>MBio</i> , 2022, 13, e0258421.	4.1	15
4	Critical Assessment of Metagenome Interpretation: the second round of challenges. <i>Nature Methods</i> , 2022, 19, 429-440.	19.0	133
5	TIR domains of plant immune receptors are 2â€²,3â€²-cAMP/cGMP synthetases mediating cell death. <i>Cell</i> , 2022, 185, 2370-2386.e18.	28.9	104
6	NOD-like receptor-mediated plant immunity: from structure to cell death. <i>Nature Reviews Immunology</i> , 2021, 21, 305-318.	22.7	103
7	The leucine-rich repeats in allelic barley MLA immune receptors define specificity towards sequence-unrelated powdery mildew avirulence effectors with a predicted common RNase-like fold. <i>PLoS Pathogens</i> , 2021, 17, e1009223.	4.7	50
8	Spatially Restricted Immune Responses Are Required for Maintaining Root Meristematic Activity upon Detection of Bacteria. <i>Current Biology</i> , 2021, 31, 1012-1028.e7.	3.9	46
9	Gene expression evolution in pattern-triggered immunity within <i>Arabidopsis thaliana</i> and across Brassicaceae species. <i>Plant Cell</i> , 2021, 33, 1863-1887.	6.6	27
10	Peat-based gnotobiotic plant growth systems for <i>Arabidopsis</i> microbiome research. <i>Nature Protocols</i> , 2021, 16, 2450-2470.	12.0	26
11	Coordination of microbeâ€“host homeostasis by crosstalk with plant innate immunity. <i>Nature Plants</i> , 2021, 7, 814-825.	9.3	95
12	Host preference and invasiveness of commensal bacteria in the Lotus and <i>Arabidopsis</i> root microbiota. <i>Nature Microbiology</i> , 2021, 6, 1150-1162.	13.3	89
13	A fungal powdery mildew pathogen induces extensive local and marginal systemic changes in the <i>Arabidopsis thaliana</i> microbiota. <i>Environmental Microbiology</i> , 2021, 23, 6292-6308.	3.8	12
14	High-throughput cultivation and identification of bacteria from the plant root microbiota. <i>Nature Protocols</i> , 2021, 16, 988-1012.	12.0	91
15	Root microbiota assembly and adaptive differentiation among European <i>Arabidopsis</i> populations. <i>Nature Ecology and Evolution</i> , 2020, 4, 122-131.	7.8	157
16	Leaf-derived bacterial communities adapt to the local environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 808-810.	7.1	9
17	Root-Secreted Coumarins and the Microbiota Interact to Improve Iron Nutrition in <i>Arabidopsis</i> . <i>Cell Host and Microbe</i> , 2020, 28, 825-837.e6.	11.0	199
18	Discovery of a Family of Mixed Lineage Kinase Domain-like Proteins in Plants and Their Role in Innate Immune Signaling. <i>Cell Host and Microbe</i> , 2020, 28, 813-824.e6.	11.0	50

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19	Direct pathogen-induced assembly of an NLR immune receptor complex to form a holoenzyme. <i>Science</i> , 2020, 370, .	12.6	291
20	Moonlighting Function of Phytochelatin Synthase1 in Extracellular Defense against Fungal Pathogens. <i>Plant Physiology</i> , 2020, 182, 1920-1932.	4.8	26
21	A cell death assay in barley and wheat protoplasts for identification and validation of matching pathogen AVR effector and plant NLR immune receptors. <i>Plant Methods</i> , 2019, 15, 118.	4.3	52
22	Balancing trade-offs between biotic and abiotic stress responses through leaf age-dependent variation in stress hormone cross-talk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2364-2373.	7.1	205
23	<i>Lotus japonicus</i> Symbiosis Genes Impact Microbial Interactions between Symbionts and Multikingdom Commensal Communities. <i>MBio</i> , 2019, 10, .	4.1	41
24	Subfamily-Specific Specialization of RGH1/MLA Immune Receptors in Wild Barley. <i>Molecular Plant-Microbe Interactions</i> , 2019, 32, 107-119.	2.6	29
25	Multiple pairs of allelic MLA immune receptor-powdery mildew AVRA effectors argue for a direct recognition mechanism. <i>ELife</i> , 2019, 8, .	6.0	96
26	Root-Associated Bacterial and Fungal Community Profiles of <i>Arabidopsis thaliana</i> Are Robust Across Contrasting Soil P Levels. <i>Phytobiomes Journal</i> , 2018, 2, 24-34.	2.7	37
27	A dominant interfering <i>camta3</i> mutation compromises primary transcriptional outputs mediated by both cell surface and intracellular immune receptors in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2018, 217, 1667-1680.	7.3	73
28	Glutathione Transferase U13 Functions in Pathogen-Triggered Glucosinolate Metabolism. <i>Plant Physiology</i> , 2018, 176, 538-551.	4.8	69
29	Microbial Interkingdom Interactions in Roots Promote Arabidopsis Survival. <i>Cell</i> , 2018, 175, 973-983.e14.	28.9	707
30	Signatures of host specialization and a recent transposable element burst in the dynamic one-speed genome of the fungal barley powdery mildew pathogen. <i>BMC Genomics</i> , 2018, 19, 381.	2.8	138
31	Modular Traits of the Rhizobiales Root Microbiota and Their Evolutionary Relationship with Symbiotic Rhizobia. <i>Cell Host and Microbe</i> , 2018, 24, 155-167.e5.	11.0	244
32	Critical Assessment of Metagenome Interpretation—a benchmark of metagenomics software. <i>Nature Methods</i> , 2017, 14, 1063-1071.	19.0	635
33	Interplay Between Innate Immunity and the Plant Microbiota. <i>Annual Review of Phytopathology</i> , 2017, 55, 565-589.	7.8	410
34	Root microbiota dynamics of perennial <i>Arabis alpina</i> are dependent on soil residence time but independent of flowering time. <i>ISME Journal</i> , 2017, 11, 43-55.	9.8	133
35	Allelic barley MLA immune receptors recognize sequence-unrelated avirulence effectors of the powdery mildew pathogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6486-E6495.	7.1	162
36	Root nodule symbiosis in <i>Lotus japonicus</i> drives the establishment of distinctive rhizosphere, root, and nodule bacterial communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7996-E8005.	7.1	258

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37	Survival trade-offs in plant roots during colonization by closely related beneficial and pathogenic fungi. <i>Nature Communications</i> , 2016, 7, 11362.	12.8	214
38	Root Endophyte <i>Colletotrichum tofieldiae</i> Confers Plant Fitness Benefits that Are Phosphate Status Dependent. <i>Cell</i> , 2016, 165, 464-474.	28.9	510
39	Microbiota and Host Nutrition across Plant and Animal Kingdoms. <i>Cell Host and Microbe</i> , 2015, 17, 603-616.	11.0	628
40	Rhizobacterial volatiles and photosynthesis-related signals coordinate MYB72 expression in <i>Arabidopsis</i> roots during onset of induced systemic resistance and iron deficiency responses. <i>Plant Journal</i> , 2015, 84, 309-322.	5.7	171
41	Mutant Allele-Specific Uncoupling of PENETRATION3 Functions Reveals Engagement of the ATP-Binding Cassette Transporter in Distinct Tryptophan Metabolic Pathways. <i>Plant Physiology</i> , 2015, 168, 814-827.	4.8	71
42	Functional overlap of the <i>Arabidopsis</i> leaf and root microbiota. <i>Nature</i> , 2015, 528, 364-369.	27.8	1,062
43	Quantitative divergence of the bacterial root microbiota in <i>Arabidopsis thaliana</i> relatives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 585-592.	7.1	539
44	Microbial genome-enabled insights into plant-microorganism interactions. <i>Nature Reviews Genetics</i> , 2014, 15, 797-813.	16.3	187
45	The wheat powdery mildew genome shows the unique evolution of an obligate biotroph. <i>Nature Genetics</i> , 2013, 45, 1092-1096.	21.4	236
46	Structure and Functions of the Bacterial Microbiota of Plants. <i>Annual Review of Plant Biology</i> , 2013, 64, 807-838.	18.7	2,589
47	Mosaic genome structure of the barley powdery mildew pathogen and conservation of transcriptional programs in divergent hosts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2219-28.	7.1	165
48	Structure-Function Analysis of Barley NLR Immune Receptor MLA10 Reveals Its Cell Compartment Specific Activity in Cell Death and Disease Resistance. <i>PLoS Pathogens</i> , 2012, 8, e1002752.	4.7	219
49	Conservation of NLR-triggered immunity across plant lineages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20119-20123.	7.1	95
50	Revealing structure and assembly cues for <i>Arabidopsis</i> root-inhabiting bacterial microbiota. <i>Nature</i> , 2012, 488, 91-95.	27.8	2,127
51	Coiled-Coil Domain-Dependent Homodimerization of Intracellular Barley Immune Receptors Defines a Minimal Functional Module for Triggering Cell Death. <i>Cell Host and Microbe</i> , 2011, 9, 187-199.	11.0	269
52	A molecular evolutionary concept connecting nonhost resistance, pathogen host range, and pathogen speciation. <i>Trends in Plant Science</i> , 2011, 16, 117-125.	8.8	374
53	Conservation and clade-specific diversification of pathogen-inducible tryptophan and indole glucosinolate metabolism in <i>Arabidopsis thaliana</i> relatives. <i>New Phytologist</i> , 2011, 192, 713-726.	7.3	100
54	NLR functions in plant and animal immune systems: so far and yet so close. <i>Nature Immunology</i> , 2011, 12, 817-826.	14.5	378

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55	Diversity at the <i>Mla</i> Powdery Mildew Resistance Locus from Cultivated Barley Reveals Sites of Positive Selection. <i>Molecular Plant-Microbe Interactions</i> , 2010, 23, 497-509.	2.6	160
56	Genome Expansion and Gene Loss in Powdery Mildew Fungi Reveal Tradeoffs in Extreme Parasitism. <i>Science</i> , 2010, 330, 1543-1546.	12.6	725
57	The CC-NB-LRR-Type Rdg2a Resistance Gene Confers Immunity to the Seed-Borne Barley Leaf Stripe Pathogen in the Absence of Hypersensitive Cell Death. <i>PLoS ONE</i> , 2010, 5, e12599.	2.5	56
58	Uncoupling of sustained MAMP receptor signaling from early outputs in an Arabidopsis endoplasmic reticulum glucosidase II allele. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22522-22527.	7.1	119
59	A Glucosinolate Metabolism Pathway in Living Plant Cells Mediates Broad-Spectrum Antifungal Defense. <i>Science</i> , 2009, 323, 101-106.	12.6	927
60	Nuclear Activity of MLA Immune Receptors Links Isolate-Specific and Basal Disease-Resistance Responses. <i>Science</i> , 2007, 315, 1098-1103.	12.6	659
61	Metabolic consequences of susceptibility and resistance (race-specific and broad-spectrum) in barley leaves challenged with powdery mildew. <i>Plant, Cell and Environment</i> , 2006, 29, 1061-1076.	5.7	297
62	Arabidopsis PEN3/PDR8, an ATP Binding Cassette Transporter, Contributes to Nonhost Resistance to Inappropriate Pathogens That Enter by Direct Penetration. <i>Plant Cell</i> , 2006, 18, 731-746.	6.6	598
63	Conserved ERAD-Like Quality Control of a Plant Polytopic Membrane Protein. <i>Plant Cell</i> , 2005, 17, 149-163.	6.6	107
64	Recruitment and interaction dynamics of plant penetration resistance components in a plasma membrane microdomain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3135-3140.	7.1	327
65	Pre- and Postinvasion Defenses Both Contribute to Nonhost Resistance in Arabidopsis. <i>Science</i> , 2005, 310, 1180-1183.	12.6	753
66	Host and non-host pathogens elicit different jasmonate/ethylene responses in Arabidopsis. <i>Plant Journal</i> , 2004, 40, 633-646.	5.7	186
67	SNARE-protein-mediated disease resistance at the plant cell wall. <i>Nature</i> , 2003, 425, 973-977.	27.8	904
68	ESTABLISHMENT OF BIOTROPHY BY PARASITIC FUNGI AND REPROGRAMMING OF HOST CELLS FOR DISEASE RESISTANCE. <i>Annual Review of Phytopathology</i> , 2003, 41, 641-667.	7.8	150
69	Recognition Specificity and RAR1/SGT1 Dependence in Barley Mla Disease Resistance Genes to the Powdery Mildew Fungus. <i>Plant Cell</i> , 2003, 15, 732-744.	6.6	225
70	Cell-Autonomous Expression of Barley Mla1 Confers Race-Specific Resistance to the Powdery Mildew Fungus via a Rar1-Independent Signaling Pathway. <i>Plant Cell</i> , 2001, 13, 337-350.	6.6	203