

Soo Chan Lee

List of Publications by Year in descending order

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47
papers

2,512
citations

257450

24
h-index

214800

47
g-index

56
all docs

56
docs citations

56
times ranked

2959
citing authors

#	ARTICLE	IF	CITATIONS
1	The Evolution of Sex: a Perspective from the Fungal Kingdom. <i>Microbiology and Molecular Biology Reviews</i> , 2010, 74, 298-340.	6.6	326
2	Microsporidia Evolved from Ancestral Sexual Fungi. <i>Current Biology</i> , 2008, 18, 1675-1679.	3.9	256
3	Expansion of Signal Transduction Pathways in Fungi by Extensive Genome Duplication. <i>Current Biology</i> , 2016, 26, 1577-1584.	3.9	175
4	Antifungal drug resistance evoked via RNAi-dependent epimutations. <i>Nature</i> , 2014, 513, 555-558.	27.8	147
5	Calcineurin Plays Key Roles in the Dimorphic Transition and Virulence of the Human Pathogenic Zygomycete <i>Mucor circinelloides</i> . <i>PLoS Pathogens</i> , 2013, 9, e1003625.	4.7	134
6	Calcineurin in fungal virulence and drug resistance: Prospects for harnessing targeted inhibition of calcineurin for an antifungal therapeutic approach. <i>Virulence</i> , 2017, 8, 186-197.	4.4	130
7	Analysis of a Food-Borne Fungal Pathogen Outbreak: Virulence and Genome of a <i>Mucor circinelloides</i> Isolate from Yogurt. <i>MBio</i> , 2014, 5, e01390-14.	4.1	106
8	Calcium-Calmodulin-Calcineurin Signaling: A Globally Conserved Virulence Cascade in Eukaryotic Microbial Pathogens. <i>Cell Host and Microbe</i> , 2019, 26, 453-462.	11.0	106
9	Harnessing calcineurin-FK506-FKBP12 crystal structures from invasive fungal pathogens to develop antifungal agents. <i>Nature Communications</i> , 2019, 10, 4275.	12.8	80
10	Dual action antifungal small molecule modulates multidrug efflux and TOR signaling. <i>Nature Chemical Biology</i> , 2016, 12, 867-875.	8.0	79
11	Evolution of the sex-Related Locus and Genomic Features Shared in Microsporidia and Fungi. <i>PLoS ONE</i> , 2010, 5, e10539.	2.5	77
12	Calcineurin orchestrates dimorphic transitions, antifungal drug responses and host-pathogen interactions of the pathogenic mucoralean fungus <i>Mucor circinelloides</i> . <i>Molecular Microbiology</i> , 2015, 97, 844-865.	2.5	74
13	Human Fungal Pathogens of Mucorales and Entomophthorales. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2015, 5, a019562-a019562.	6.2	69
14	Outbreak of Invasive Wound Mucormycosis in a Burn Unit Due to Multiple Strains of <i>Mucor circinelloides</i> f. <i>circinelloides</i> Resolved by Whole-Genome Sequencing. <i>MBio</i> , 2018, 9, .	4.1	54
15	A non-canonical RNA degradation pathway suppresses RNAi-dependent epimutations in the human fungal pathogen <i>Mucor circinelloides</i> . <i>PLoS Genetics</i> , 2017, 13, e1006686.	3.5	50
16	An Atlas of Genetic Variation Linking Pathogen-Induced Cellular Traits to Human Disease. <i>Cell Host and Microbe</i> , 2018, 24, 308-323.e6.	11.0	48
17	Broad antifungal resistance mediated by RNAi-dependent epimutation in the basal human fungal pathogen <i>Mucor circinelloides</i> . <i>PLoS Genetics</i> , 2019, 15, e1007957.	3.5	46
18	Function of <i>Cryptococcus neoformans</i> KAR7 (<i>SEC66</i>) in Karyogamy during Unisexual and Opposite-Sex Mating. <i>Eukaryotic Cell</i> , 2012, 11, 783-794.	3.4	42

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19	Metal Chelation as a Powerful Strategy to Probe Cellular Circuitry Governing Fungal Drug Resistance and Morphogenesis. <i>PLoS Genetics</i> , 2016, 12, e1006350.	3.5	39
20	<i>Mucor circinelloides</i> : Growth, Maintenance, and Genetic Manipulation. <i>Current Protocols in Microbiology</i> , 2018, 49, e53.	6.5	38
21	Epigenetic mechanisms of drug resistance in fungi. <i>Fungal Genetics and Biology</i> , 2019, 132, 103253.	2.1	36
22	Generation of genetic diversity in microsporidia via sexual reproduction and horizontal gene transfer. <i>Communicative and Integrative Biology</i> , 2009, 2, 414-417.	1.4	31
23	Structures of Pathogenic Fungal FKBP12s Reveal Possible Self-Catalysis Function. <i>MBio</i> , 2016, 7, e00492-16.	4.1	29
24	A Novel Resistance Pathway for Calcineurin Inhibitors in the Human-Pathogenic Mucorales <i>Mucor circinelloides</i> . <i>MBio</i> , 2020, 11, .	4.1	29
25	Pseudohyphal Growth of <i>Cryptococcus neoformans</i> Is a Reversible Dimorphic Transition in Response to Ammonium That Requires Amt1 and Amt2 Ammonium Permeases. <i>Eukaryotic Cell</i> , 2012, 11, 1391-1398.	3.4	28
26	CRISPR-Cas9 induces point mutation in the mucormycosis fungus <i>Rhizopus delemar</i> . <i>Fungal Genetics and Biology</i> , 2019, 124, 1-7.	2.1	28
27	Construction of a Recyclable Genetic Marker and Serial Gene Deletions in the Human Pathogenic Mucorales <i>Mucor circinelloides</i> . <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 2047-2054.	1.8	22
28	Rad53- and Chk1-Dependent DNA Damage Response Pathways Cooperatively Promote Fungal Pathogenesis and Modulate Antifungal Drug Susceptibility. <i>MBio</i> , 2019, 10, .	4.1	22
29	Sex in the Mucoralean Fungi. <i>Mycoses</i> , 2014, 57, 18-24.	4.0	21
30	Gastrointestinal microbiota alteration induced by <i>Mucor circinelloides</i> in a murine model. <i>Journal of Microbiology</i> , 2019, 57, 509-520.	2.8	18
31	Nanoemulsion as an Effective Treatment against Human-Pathogenic Fungi. <i>MSphere</i> , 2019, 4, .	2.9	17
32	The heterotrimeric G α protein beta subunit Gpb1 controls hyphal growth under low oxygen conditions through the protein kinase A pathway and is essential for virulence in the fungus <i>Mucor circinelloides</i> . <i>Cellular Microbiology</i> , 2020, 22, e13236.	2.1	15
33	Parallels in Intercellular Communication in Oomycete and Fungal Pathogens of Plants and Humans. <i>PLoS Pathogens</i> , 2012, 8, e1003028.	4.7	14
34	Fungal Sex: The Mucoromycota. <i>Microbiology Spectrum</i> , 2017, 5, .	3.0	14
35	FKBP12-Dependent Inhibition of Calcineurin Mediates Immunosuppressive Antifungal Drug Action in <i>Malassezia</i> . <i>MBio</i> , 2017, 8, .	4.1	14
36	Compositional changes in fecal microbiota associated with clinical phenotypes and prognosis in Korean patients with inflammatory bowel disease. <i>Intestinal Research</i> , 2023, 21, 148-160.	2.6	14

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37	Candida albicans Morphology-Dependent Host FGF-2 Response as a Potential Therapeutic Target. Journal of Fungi (Basel, Switzerland), 2019, 5, 22.	3.5	10
38	Heterotrimeric G-alpha subunits Gpa11 and Gpa12 define a transduction pathway that control spore size and virulence in Mucor circinelloides. PLoS ONE, 2019, 14, e0226682.	2.5	10
39	Tornadic Shear Stress Induces a Transient, Calcineurin-Dependent Hypervirulent Phenotype in Mucorales Molds. MBio, 2020, 11, .	4.1	10
40	Maternal exercise before and during pregnancy alleviates metabolic dysfunction associated with high-fat diet in pregnant mice, without significant changes in gut microbiota. Nutrition Research, 2019, 69, 42-57.	2.9	9
41	Interactions of FK506 and Rapamycin With FK506 Binding Protein 12 in Opportunistic Human Fungal Pathogens. Frontiers in Molecular Biosciences, 2020, 7, 588913.	3.5	9
42	Genetic Tools for Investigating Mucorales Fungal Pathogenesis. Current Clinical Microbiology Reports, 2018, 5, 173-180.	3.4	9
43	Unseen sex in ancient virgin fungi. New Phytologist, 2014, 201, 3-5.	7.3	6
44	Dynamics of parasitophorous vacuoles formed by the microsporidian pathogen Encephalitozoon cuniculi. Fungal Genetics and Biology, 2017, 107, 20-23.	2.1	3
45	Fungal Sex: The Mucoromycota. , 2017, , 177-191.		3
46	mSphere of Influence: the Mycobiota in Human Health and Disease. MSphere, 2020, 5, .	2.9	3
47	Identification of Mucormycosis by Fluorescence In Situ Hybridization Targeting Ribosomal RNA in Tissue Samples. Journal of Fungi (Basel, Switzerland), 2022, 8, 289.	3.5	2