Kaustuv Sanyal

List of Publications by Year
in descending order

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66 papers	2,323 citations	257450 24 h-index	254184 43 g-index
102 all docs	102 docs citations	102 times ranked	2311 citing authors

#	Article	IF	Citations
1	Analysis of the Genome and Transcriptome of Cryptococcus neoformans var. grubii Reveals Complex RNA Expression and Microevolution Leading to Virulence Attenuation. PLoS Genetics, 2014, 10, e1004261.	3.5	336
2	Centromeric DNA sequences in the pathogenic yeast Candida albicans are all different and unique. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 11374-11379.	7.1	178
3	Broad Spectrum Antibacterial and Antifungal Polymeric Paint Materials: Synthesis, Structureâ€“Activity Relationship, and Membrane-Active Mode of Action. ACS Applied Materials & Interfaces, 2015, 7, 1804-1815.	8.0	134
4	RNAi is a critical determinant of centromere evolution in closely related fungi. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3108-3113.	7.1	112
5	Formation of functional centromeric chromatin is specified epigenetically in Candida albicans. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14877-14882.	7.1	91
6	Rapid evolution of Cse4p-rich centromeric DNA sequences in closely related pathogenic yeasts, Candida albicans and Candida dubliniensis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19797-19802.	7.1	81
7	Early Diverging Fungus Mucor circinelloides Lacks Centromeric Histone CENP-A and Displays a Mosaic of Point and Regional Centromeres. Current Biology, 2019, 29, 3791-3802.e6.	3.9	77
8	Efficient neocentromere formation is suppressed by gene conversion to maintain centromere function at native physical chromosomal loci in Candida albicans. Genome Research, 2013, 23, 638-652.	5.5	76
9	Chitosan Derivatives Active against Multidrug-Resistant Bacteria and Pathogenic Fungi: In Vivo Evaluation as Topical Antimicrobials. Molecular Pharmaceutics, 2016, 13, 3578-3589.	4.6	71
10	Fungal genome and mating system transitions facilitated by chromosomal translocations involving intercentromeric recombination. PLoS Biology, 2017, 15, e2002527.	5.6	67
11	The CENP-A homolog CaCse4p in the pathogenic yeast Candida albicans is a centromere protein essential for chromosome transmission. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12969-12974.	7.1	66
12	Repeat-Associated Fission Yeast-Like Regional Centromeres in the Ascomycetous Budding Yeast Candida tropicalis. PLoS Genetics, 2016, 12, e1005839.	3.5	56
13	A Coordinated Interdependent Protein Circuitry Stabilizes the Kinetochore Ensemble to Protect CENP-A in the Human Pathogenic Yeast Candida albicans. PLoS Genetics, 2012, 8, e1002661.	3.5	47
14	Proteogenomics produces comprehensive and highly accurate protein-coding gene annotation in a complete genome assembly ofMalassezia sympodialis. Nucleic Acids Research, 2017, 45, gkx006.	14.5	47
15	Loss of centromere function drives karyotype evolution in closely related Malassezia species. ELife, 2020, 9, .	6.0	45
16	Ordered Kinetochore Assembly in the Human-Pathogenic Basidiomycetous Yeast Cryptococcus neoformans. MBio, 2013, 4, e00614-13.	4.1	42
17	The Essentiality of the Fungus-Specific Dam1 Complex Is Correlated with a One-Kinetochore-One-Microtubule Interaction Present throughout the Cell Cycle, Independent of the Nature of a Centromere. Eukaryotic Cell, 2011, 10, 1295-1305.	3.4	41
18	Diversity in Requirement of Genetic and Epigenetic Factors for Centromere Function in Fungi. Eukaryotic Cell, 2011, 10, 1384-1395.	3.4	39

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19	Rad51â€“Rad52 Mediated Maintenance of Centromeric Chromatin in Candida albicans. PLoS Genetics, 2014, 10, e1004344.	3.5	37
20	Mode of Action of a Designed Antimicrobial Peptide: High Potency against Cryptococcus neoformans. Biophysical Journal, 2016, 111, 1724-1737.	0.5	37
21	Fluconazole-Induced Ploidy Change in Cryptococcus neoformans Results from the Uncoupling of Cell Growth and Nuclear Division. MSphere, 2017, 2, .	2.9	35
22	Candida albicans: An Emerging Yeast Model to Study Eukaryotic Genome Plasticity. Trends in Genetics, 2019, 35, 292-307.	6.7	35
23	Spatial inter-centromeric interactions facilitated the emergence of evolutionary new centromeres. ELife, 2020, 9, .	6.0	31
24	CaMtw1, a member of the evolutionarily conserved Mis12 kinetochore protein family, is required for efficient inner kinetochore assembly in the pathogenic yeast Candida albicans. Molecular Microbiology, 2011, 80, 14-32.	2.5	30
25	Long transposon-rich centromeres in an oomycete reveal divergence of centromere features in Stramenopila-Alveolata-Rhizaria lineages. PLoS Genetics, 2020, 16, e1008646.	3.5	29
26	Impact of FKS1 Genotype on Echinocandin In Vitro Susceptibility in Candida auris and In Vivo Response in a Murine Model of Infection. Antimicrobial Agents and Chemotherapy, 2022, 66, AAC0165221.	3.2	29
27	Dual-Function Polymerâ€“Silver Nanocomposites for Rapid Killing of Microbes and Inhibiting Biofilms. ACS Biomaterials Science and Engineering, 2019, 5, 81-91.	5.2	26
28	The IML3/MCM19 gene of Saccharomyces cerevisiae is required for a kinetochore-related process during chromosome segregation. Molecular Genetics and Genomics, 2001, 265, 249-257.	2.1	25
29	A comprehensive model to predict mitotic division in budding yeasts. Molecular Biology of the Cell, 2015, 26, 3954-3965.	2.1	25
30	Aryl-alkyl-lysines: Membrane-Active Fungicides That Act against Biofilms of Candida albicans. ACS Infectious Diseases, 2017, 3, 293-301.	3.8	25
31	Functional characterization of the Saccharomyces cerevisiae protein Chl1 reveals the role of sister chromatid cohesion in the maintenance of spindle length during S-phase arrest. BMC Genetics, 2011, 12, 83.	2.7	23
32	The Candida albicans biofilm gene circuit modulated at the chromatin level by a recent molecular histone innovation. PLoS Biology, 2019, 17, e3000422.	5.6	22
33	Implications of the Evolutionary Trajectory of Centromeres in the Fungal Kingdom. Annual Review of Microbiology, 2020, 74, 835-853.	7.3	22
34	The MCM16 gene of the yeast Saccharomyces cerevisiae is required for chromosome segregation. Molecular Genetics and Genomics, 1998, 260, 242-250.	2.4	19
35	Epigenetic determinants of phenotypic plasticity in Candida albicans. Fungal Biology Reviews, 2018, 32, 10-19.	4.7	19
36	Spatio-temporal regulation of nuclear division by Aurora B kinase Ipl1 in Cryptococcus neoformans. PLoS Genetics, 2019, 15, e1007959.	3.5	19

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37	Five pillars of centromeric chromatin in fungal pathogens. PLoS Pathogens, 2018, 14, e1007150.	4.7	18
38	Cellular Dynamics and Genomic Identity of Centromeres in Cereal Blast Fungus. MBio, 2019, 10, .	4.1	18
39	Bridgin connects the outer kinetochore to centromeric chromatin. Nature Communications, 2021, 12, 146.	12.8	17
40	Sad1 Spatiotemporally Regulates Kinetochore Clustering To Ensure High-Fidelity Chromosome Segregation in the Human Fungal Pathogen Cryptococcus neoformans. MSphere, 2018, 3, .	2.9	14
41	The process of kinetochore assembly in yeasts. FEMS Microbiology Letters, 2013, 338, 107-117.	1.8	13
42	Cis- and Trans-chromosomal Interactions Define Pericentric Boundaries in the Absence of Conventional Heterochromatin. Genetics, 2019, 212, 1121-1132.	2.9	13
43	How Do Microbial Pathogens Make CENs?. PLoS Pathogens, 2012, 8, e1002463.	4.7	12
44	ZCF32, a fungus specific Zn(II)2 Cys6 transcription factor, is a repressor of the biofilm development in the human pathogen Candida albicans. Scientific Reports, 2016, 6, 31124.	3.3	11
45	Nuclear migration in budding yeasts: position before division. Current Genetics, 2019, 65, 1341-1346.	1.7	11
46	Functional and Comparative Analysis of Centromeres Reveals Clade-Specific Genome Rearrangements in Candida auris and a Chromosome Number Change in Related Species. MBio, 2021, 12, .	4.1	11
47	A Surprising Role for the Sch9 Protein Kinase in Chromosome Segregation in Candida albicans. Genetics, 2015, 199, 671-674.	2.9	10
48	Mechanics of microtubule organizing center clustering and spindle positioning in budding yeast Cryptococcus neoformans. Physical Review E, 2021, 104, 034402.	2.1	8
49	Sth1, the Key Subunit of the RSC Chromatin Remodeling Complex, Is Essential in Maintaining Chromosomal Integrity and Mediating High Fidelity Chromosome Segregation in the Human Fungal Pathogen Candida albicans. Frontiers in Microbiology, 2019, 10, 1303.	3.5	7
50	Aurora kinase Ipl1 facilitates bilobed distribution of clustered kinetochores to ensure errorâ€free chromosome segregation in Candida albicans. Molecular Microbiology, 2019, 112, 569-587.	2.5	7
51	ClaID: a Rapid Method of Clade-Level Identification of the Multidrug Resistant Human Fungal Pathogen Candida auris. Microbiology Spectrum, 2022, 10, e0063422.	3.0	7
52	Chromatin Immunoprecipitation (ChIP) Assay in Candida albicans. Methods in Molecular Biology, 2016, 1356, 43-57.	0.9	6
53	Two negative regulators of biofilm development exhibit functional divergence in conferring virulence potential toCandida albicans. FEMS Yeast Research, 2019, 19, .	2.3	5
54	Magnetic hyperthermia adjunctive therapy for fungi: in vitro studies against Candida albicans. International Journal of Hyperthermia, 2019, 36, 544-552.	2.5	5

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55	Orc4 spatiotemporally stabilizes centromeric chromatin. Genome Research, 2021, 31, 607-621.	5.5	5
56	Minichromosome maintenance proteins in eukaryotic chromosome segregation. BioEssays, 2022, 44, e2100218.	2.5	5
57	Establishing a national fungal genetic resource to build a major cog for the bioeconomy. Current Science, 2015, 109, 1033.	0.8	4
58	Shugoshin ensures maintenance of the spindle assembly checkpoint response and efficient spindle disassembly. Molecular Microbiology, 2021, 116, 1079-1098.	2.5	3
59	Establishing a national fungal genetic resource to build a major cog for the bioeconomy. Current Science, 2015, 109, 1033.	0.8	2
60	A Stable Hybrid Containing Haploid Genomes of Two Obligate Diploid Candida Species. Eukaryotic Cell, 2013, 12, 1061-1071.	3.4	1
61	Early Diverging Fungus Mucor circinelloides Lacks Centromeric Histone CENP-A and Displays a Mosaic of Point and Regional Centromeres. SSRN Electronic Journal, 0, , .	0.4	1
62	Loss of nucleosome assembly protein 1 affects growth and appressorium structure in blast fungus .. MicroPublication Biology, 2022, 2022, .	0.1	1
63	Hypersaline fungi as a source of potentially active metabolites against pathogenic Candida species.. Czech Mycology, 2022, 74, 93-101.	0.5	1
64	Chromosome Components Important for Genome Stability in Candida albicans and Related Species. , 2017, , 233-251.		0
65	Vacuolar transporter Mnr2 safeguards organellar integrity in aged cells. Molecular Microbiology, 2021, 116, 861-876.	2.5	0
66	Identification and analysis of the origin recognition complex in the human fungal pathogen. MicroPublication Biology, 2021, 2021, .	0.1	0