Nicolas Corradi

List of Publications by Citations

72 papers	4,040 citations	33 h-index	63 g-index
81 ext. papers	5,118 ext. citations	7.2 avg, IF	5.46 L-index

#	Paper	IF	Citations
72	A phylum-level phylogenetic classification of zygomycete fungi based on genome-scale data. *Mycologia*, **2016**, 108, 1028-1046	2.4	684
71	Genome of an arbuscular mycorrhizal fungus provides insight into the oldest plant symbiosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 20117-22	11.5	499
70	Shared signatures of parasitism and phylogenomics unite Cryptomycota and microsporidia. *Current Biology*, **2013**, 23, 1548-53	6.3	227
69	Microsporidia evolved from ancestral sexual fungi. *Current Biology*, **2008**, 18, 1675-9	6.3	211
68	The complete sequence of the smallest known nuclear genome from the microsporidian Encephalitozoon intestinalis. *Nature Communications*, **2010**, 1, 77	17.4	157
67	High intraspecific genome diversity in the model arbuscular mycorrhizal symbiont Rhizophagus irregularis. *New Phytologist*, **2018**, 220, 1161-1171	9.8	107
66	Genomic survey of the non-cultivatable opportunistic human pathogen, Enterocytozoon bieneusi. *PLoS Pathogens*, **2009**, 5, e1000261	7.6	105
65	Genetic diversity and host plant preferences revealed by simple sequence repeat and mitochondrial markers in a population of the arbuscular mycorrhizal fungus Glomus intraradices. *New Phytologist*, **2008**, 178, 672-87	9.8	101
64	Microsporidia: a journey through radical taxonomical revisions. *Fungal Biology Reviews*, **2009**, 23, 1-8	6.8	96
63	The reduced genome of the parasitic microsporidian Enterocytozoon bieneusi lacks genes for core carbon metabolism. *Genome Biology and Evolution*, **2010**, 2, 304-9	3.9	95
62	Conserved meiotic machinery in Glomus spp., a putatively ancient asexual fungal lineage. *Genome Biology and Evolution*, **2011**, 3, 950-8	3.9	93
61	Evidence for the sexual origin of heterokaryosis in arbuscular mycorrhizal fungi. *Nature Microbiology*, **2016**, 1, 16033	26.6	89
60	Gain and loss of multiple functionally related, horizontally transferred genes in the reduced genomes of two microsporidian parasites. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 12638-43	11.5	81
59	Microsporidia: Eukaryotic Intracellular Parasites Shaped by Gene Loss and Horizontal Gene Transfers. *Annual Review of Microbiology*, **2015**, 69, 167-83	17.5	72
58	The arbuscular mycorrhizal symbiosis: origin and evolution of a beneficial plant infection. *PLoS Pathogens*, **2012**, 8, e1002600	7.6	63
57	Gene copy number polymorphisms in an arbuscular mycorrhizal fungal population. *Applied and Environmental Microbiology*, **2007**, 73, 366-9	4.8	62
56	Phylogenomics of the intracellular parasite Mikrocytos mackini reveals evidence for a mitosome in rhizaria. *Current Biology*, **2013**, 23, 1541-7	6.3	61

55	Draft genome sequence of the Daphnia pathogen Octosporea bayeri: insights into the gene content of a large microsporidian genome and a model for host-parasite interactions. *Genome Biology*, **2009**, 10, R106	18.3	60
54	Evolution of the sex-related locus and genomic features shared in microsporidia and fungi. *PLoS ONE*, **2010**, 5, e10539	3.7	58
53	Comparative genomics of Rhizophagus irregularis, R. cerebriforme, R. diaphanus and Gigaspora rosea highlights specific genetic features in Glomeromycotina. *New Phytologist*, **2019**, 222, 1584-1598	9.8	58
52	Genome analyses suggest the presence of polyploidy and recent human-driven expansions in eight global populations of the honeybee pathogen Nosema ceranae. *Environmental Microbiology*, **2015**, 17, 4443-58	5.2	45
51	Extreme diversification of the mating type-high-mobility group (MATA-HMG) gene family in a plant-associated arbuscular mycorrhizal fungus. *New Phytologist*, **2014**, 201, 254-268	9.8	45
50	Patterns of genome evolution among the microsporidian parasites Encephalitozoon cuniculi, Antonospora locustae and Enterocytozoon bieneusi. *PLoS ONE*, **2007**, 2, e1277	3.7	44
49	Fungal Mating in the Most Widespread Plant Symbionts?. *Trends in Plant Science*, **2017**, 22, 175-183	13.1	43
48	Monophyly of beta-tubulin and H+-ATPase gene variants in Glomus intraradices: consequences for molecular evolutionary studies of AM fungal genes. *Fungal Genetics and Biology*, **2004**, 41, 262-73	3.9	43
47	The genome of an intranuclear parasite, , reveals alternative adaptations to obligate intracellular parasitism. *ELife*, **2017**, 6,	8.9	43
46	The intriguing nature of microsporidian genomes. *Briefings in Functional Genomics*, **2011**, 10, 115-24	4.9	42
45	Comparative profiling of overlapping transcription in the compacted genomes of microsporidia Antonospora locustae and Encephalitozoon cuniculi. *Genomics*, **2008**, 91, 388-93	4.3	41
44	The mitochondrial genome of the arbuscular mycorrhizal fungus Gigaspora margarita reveals two unsuspected trans-splicing events of group I introns. *New Phytologist*, **2012**, 194, 836-845	9.8	40
43	Glomeromycotina: what is a species and why should we care?. *New Phytologist*, **2018**, 220, 963-967	9.8	40
42	Arbuscular mycorrhizal fungi (Glomeromycota) harbour ancient fungal tubulin genes that resemble those of the chytrids (Chytridiomycota). *Fungal Genetics and Biology*, **2004**, 41, 1037-45	3.9	38
41	Extremely reduced levels of heterozygosity in the vertebrate pathogen Encephalitozoon cuniculi. *Eukaryotic Cell*, **2013**, 12, 496-502		37
40	Molecular Evidence for Introgression and Loss of Genetic Variability in Salmo (trutta) macrostigma as a Result of Massive Restocking of Apennine Populations (Northern and Central Italy). *Environmental Biology of Fishes*, **2003**, 68, 349-356	1.6	34
39	Evolution of the P-type II ATPase gene family in the fungi and presence of structural genomic changes among isolates of Glomus intraradices. *BMC Evolutionary Biology*, **2006**, 6, 21	3	32
38	Acquisition of an animal gene by microsporidian intracellular parasites. *Current Biology*, **2011**, 21, R576-76.3		30

37	Single nucleus sequencing reveals evidence of inter-nucleus recombination in arbuscular mycorrhizal fungi. *ELife*, **2018**, 7,	8.9	30
36	RiCRN1, a Crinkler Effector From the Arbuscular Mycorrhizal Fungus , Functions in Arbuscule Development. *Frontiers in Microbiology*, **2018**, 9, 2068	5.7	29
35	Shrink it or lose it: balancing loss of function with shrinking genomes in the microsporidia. *Virulence* , **2011**, 2, 67-70	4.7	28
34	Searching for clues of sexual reproduction in the genomes of arbuscular mycorrhizal fungi. *Fungal Ecology*, **2013**, 6, 44-49	4.1	24
33	Morphology and phylogeny of Agmasoma penaei (Microsporidia) from the type host, Litopenaeus setiferus, and the type locality, Louisiana, USA. *International Journal for Parasitology*, **2015**, 45, 1-16	4.3	22
32	Microsporidian genomes harbor a diverse array of transposable elements that demonstrate an ancestry of horizontal exchange with metazoans. *Genome Biology and Evolution*, **2014**, 6, 2289-300	3.9	21
31	Latest progress in microsporidian genome research. *Journal of Eukaryotic Microbiology*, **2013**, 60, 309-12	3.6	20
30	Arbuscular mycorrhizal fungi: intraspecific diversity and pangenomes. *New Phytologist*, **2018**, 220, 1129-1134	9.8	20
29	Nuclear Dynamics in the Arbuscular Mycorrhizal Fungi. *Trends in Plant Science*, **2020**, 25, 765-778	13.1	19
28	Ultra-low input transcriptomics reveal the spore functional content and phylogenetic affiliations of poorly studied arbuscular mycorrhizal fungi. *DNA Research*, **2018**, 25, 217-227	4.5	19
27	High-level molecular diversity of copper-zinc superoxide dismutase genes among and within species of arbuscular Mycorrhizal fungi. *Applied and Environmental Microbiology*, **2009**, 75, 1970-8	4.8	19
26	Genome Analysis of Pseudoloma neurophilia: A Microsporidian Parasite of Zebrafish (Danio rerio). *Journal of Eukaryotic Microbiology*, **2017**, 64, 18-30	3.6	18
25	Homokaryotic vs heterokaryotic mycelium in arbuscular mycorrhizal fungi: different techniques, different results?. *New Phytologist*, **2015**, 208, 638-41	9.8	18
24	Multilocus genotyping of arbuscular mycorrhizal fungi and marker suitability for population genetics. *New Phytologist*, **2008**, 180, 564-568	9.8	17
23	Splicing and transcription differ between spore and intracellular life stages in the parasitic microsporidia. *Molecular Biology and Evolution*, **2010**, 27, 1579-84	8.3	16
22	Microsporidia: Horizontal gene transfers in vicious parasites. *Mobile Genetic Elements*, **2011**, 1, 251-255		14
21	Parasexual and Sexual Reproduction in Arbuscular Mycorrhizal Fungi: Room for Both. *Trends in Microbiology*, **2020**, 28, 517-519	12.4	13
20	The genome of an Encephalitozoon cuniculi type III strain reveals insights into the genetic diversity and mode of reproduction of a ubiquitous vertebrate pathogen. *Heredity*, **2016**, 116, 458-65	3.6	11

19	Lineage-Specific Genes and Cryptic Sex: Parallels and Differences between Arbuscular Mycorrhizal Fungi and Fungal Pathogens. *Trends in Plant Science*, **2021**, 26, 111-123	13.1	11
18	Meiotic genes in the arbuscular mycorrhizal fungi: What for?. *Communicative and Integrative Biology* , **2012**, 5, 187-9	1.7	10
17	mRNA processing in Antonospora locustae spores. *Molecular Genetics and Genomics*, **2008**, 280, 565-74	3.1	10
16	A proteinaceous organic matrix regulates carbonate mineral production in the marine teleost intestine. *Scientific Reports*, **2016**, 6, 34494	4.9	8
15	Host identity influences nuclear dynamics in arbuscular mycorrhizal fungi. *Current Biology*, **2021**, 31, 1531-1538.e6	6.3	7
14	The genome of Geosiphon pyriformis reveals ancestral traits linked to the emergence of the arbuscular mycorrhizal symbiosis. *Current Biology*, **2021**, 31, 1570-1577.e4	6.3	7
13	Secretoneurin A regulates neurogenic and inflammatory transcriptional networks in goldfish (Carassius auratus) radial glia. *Scientific Reports*, **2017**, 7, 14930	4.9	6
12	Mitochondrial genome invaders: an unselfish role as molecular markers. *New Phytologist*, **2012**, 196, 963-965	9.8	6
11	Long reads and Hi-C sequencing illuminate the two-compartment genome of the model arbuscular mycorrhizal symbiont Rhizophagus irregularis. *New Phytologist*, **2021**,	9.8	6
10	Genetic and Genome Analyses Reveal Genetically Distinct Populations of the Bee Pathogen Nosema ceranae from Thailand. *Microbial Ecology*, **2019**, 77, 877-889	4.4	5
9	Homo- and Dikaryons of the Arbuscular Mycorrhizal Fungus Differ in Life History Strategy. *Frontiers in Plant Science*, **2021**, 12, 715377	6.2	4
8	More Filtering on SNP Calling Does Not Remove Evidence of Inter-Nucleus Recombination in Dikaryotic Arbuscular Mycorrhizal Fungi. *Frontiers in Plant Science*, **2020**, 11, 912	6.2	3
7	Evolutionary genomics of arbuscular mycorrhizal fungi **2016**, 421-435		2
6	Microsporidian Genome Structure and Function **2014**, 221-229		2
5	The arbuscular mycorrhizal fungus Rhizophagus irregularis harmonizes nuclear dynamics in the presence of distinct abiotic factors. *Fungal Genetics and Biology*, **2021**, 158, 103639	3.9	2
4	Sex Determination: Genetic Dominance in Oomycete Sex. *Current Biology*, **2020**, 30, R1256-R1258	6.3	2
3	Regulation of mating genes during arbuscular mycorrhizal isolate co-existence-where is the evidence?. *ISME Journal*, **2021**, 15, 2173-2179	11.9	2
2	More filtering on SNP calling does not remove evidence of inter-nucleus recombination in dikaryotic arbuscular mycorrhizal fungi		1

1 Ecological Genomics of the Microsporidia **2013**, 261-278