Eric Grenier

List of Publications by Year in descending order

53 papers	2,306 citations	430874 18 h-index	214800 47 g-index
54 all docs	54 docs citations	54 times ranked	2060 citing authors

#	Article	IF	Citations
1	Genome sequence of the metazoan plant-parasitic nematode Meloidogyne incognita. Nature Biotechnology, 2008, 26, 909-915.	17.5	1,012
2	The Cyst Nematode SPRYSEC Protein RBP-1 Elicits Gpa2- and RanGAP2-Dependent Plant Cell Death. PLoS Pathogens, 2009, 5, e1000564.	4.7	182
3	The genome of the yellow potato cyst nematode, Globodera rostochiensis, reveals insights into the basis of parasitism and virulence. Genome Biology, 2016, 17, 124.	8.8	156
4	Origin and genetic diversity of Western European populations of the potato cyst nematode (Globodera pallida) inferred from mitochondrial sequences and microsatellite loci. Molecular Ecology, 2008, 17, 2208-2218.	3.9	102
5	Identification and functional characterization of effectors in expressed sequence tags from various life cycle stages of the potato cyst nematode Globodera pallida. Molecular Plant Pathology, 2009, 10, 815-828.	4.2	96
6	An evaluation of the implications of virulence in non-European populations of Globodera pallida and G. rostochiensis for potato cultivation in Europe. Nematology, 2012, 14, 1-13.	0.6	61
7	Genetic diversity of the golden potato cyst nematode Globodera rostochiensis and determination of the origin of populations in Quebec, Canada. Molecular Phylogenetics and Evolution, 2013, 69, 75-82.	2.7	51
8	A cyst nematode 'species factory' called the Andes. Nematology, 2010, 12, 163-169.	0.6	50
9	Host status and reaction of Medicago truncatula accessions to infection by three major pathogens of pea (Pisum sativum) and alfalfa (Medicago sativa). European Journal of Plant Pathology, 2006, 117, 57-69.	1.7	48
10	Use of species-specific satellite DNAs as diagnostic probes in the identification of Steinernematidae and Heterorhabditidae entomopathogenic nematodes. Parasitology, 1996, 113, 483-489.	1.5	35
11	DNA polymorphism in the stem nematode Ditylenchus dipsaci: development of diagnostic markers for normal and giant races. Genome, 2003, 46, 1077-1083.	2.0	34
12	Satellite DNA sequences as taxonomic markers in nematodes of agronomic interest. Parasitology Today, 1997, 13, 398-401.	3.0	31
13	Molecular approaches to the taxonomic position of Peruvian potato cyst nematodes and gene pool similarities in indigenous and imported populations of Globodera. Heredity, 2001, 86, 277-290.	2.6	30
14	Ranbpm homologue genes characterised in the cyst nematodes Globodera pallida and Globodera â€˜mexicanaâ€™. Physiological and Molecular Plant Pathology, 2005, 67, 15-22.	2.5	29
15	Human influence on the dispersal and genetic structure of French Globodera tabacum populations. Infection, Genetics and Evolution, 2014, 27, 309-317.	2.3	23
16	Heterozygote deficits in cyst plantâ€parasitic nematodes: possible causes and consequences. Molecular Ecology, 2015, 24, 1654-1677.	3.9	23
17	Intra-species DNA polymorphism in the tobacco cyst Â– nematode complex (Globodera tabacum) using AFLP. Genome, 2001, 44, 941-946.	2.0	21
18	Genome scans on experimentally evolved populations reveal candidate regions for adaptation to plant resistance in the potato cyst nematode Globodera pallida. Molecular Ecology, 2017, 26, 4700-4711.	3.9	20

#	Article	IF	Citations
19	Molecular characterization of two species-specific tandemly repeated DNAs from entomopathogenic nematodes Steinernema and Heterorhabditis (Nematoda: Rhabditida). Molecular and Biochemical Parasitology, 1996, 83, 47-56.	1.1	19
20	The evolution of the Gpâ€Rbpâ€1 gene in Globodera pallida includes multiple selective replacements. Molecular Plant Pathology, 2012, 13, 546-555.	4.2	19
21	A Mariner-Like Transposable Element in the Insect Parasite Nematode Heterorhabditis bacteriophora. Journal of Molecular Evolution, 1999, 48, 328-336.	1.8	16
22	Development and validation of real-time PCR assays based onÂnovel molecular markers for the simultaneous detection andÂidentification of Globodera pallida, G. rostochiensis andÂHeterodera schachtii. Nematology, 2017, 19, 789-804.	0.6	16
23	Image based species identification of Globodera quarantine nematodes using computer vision and deep learning. Computers and Electronics in Agriculture, 2021, 186, 106058.	7.7	15
24	Sequence polymorphism of nematode effectors highlights molecular differences among the subspecies of the tobacco cyst nematode complex. Physiological and Molecular Plant Pathology, 2013, 84, 107-114.	2.5	14
25	The hidden diversity of the potato cyst nematode Globodera pallida in the south of Peru. Evolutionary Applications, 2020, 13, 727-737.	3.1	14
26	Identification of gene expression differences between Globodera pallida and G. â€˜mexicana â€™ by suppression subtractive hybridization. Molecular Plant Pathology, 2002, 3, 217-226.	4.2	13
27	Molecular Variability and Evolution of the Pectate Lyase (pel-2) Parasitism Gene in Cyst Nematodes Parasitizing Different Solanaceous Plants. Journal of Molecular Evolution, 2011, 72, 169-181.	1.8	12
28	Recent Advances in Population Genomics of Plant-Parasitic Nematodes. Phytopathology, 2021, 111, 40-48.	2.2	12
29	Experimentally evolved populations of the potato cyst nematode Globodera pallida allow the targeting of genomic footprints of selection due to host adaptation. Plant Pathology, 2017, 66, 1022-1030.	2.4	11
30	What determines host specificity in hyperspecialized plant parasitic nematodes?. BMC Genomics, 2019, 20, 457.	2.8	11
31	Exploring the causes of small effective population sizes in cyst nematodes using artificialGlobodera pallidapopulations. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182359.	2.6	11
32	Distribution, DNA barcoding and genetic diversity of potato cyst nematodes in Indonesia. European Journal of Plant Pathology, 2020, 158, 363-380.	1.7	11
33	Characterization of a species-specific satellite DNA from the entomopathogenic nematode Steinernema carpocapsae. Molecular and Biochemical Parasitology, 1995, 69, 93-100.	1.1	10
34	Genome sizes of the entomopathogenic nematodes Steinernema carpocapsae and Heterorhabditis bacteriophora (Nematoda: Rhabditida). Parasitology, 1997, 114, 497-501.	1.5	10
35	A species-specific satellite DNA from the entomopathogenic nematode Heterorhabditis indicus. Genome, 1998, 41, 148-153.	2.0	9
36	Identification of plant genes regulated in resistant potato Solanum sparsipilum during the early stages of infection by Globodera pallida. Genome, 2007, 50, 422-427.	2.0	9

#	Article	IF	Citations
37	Other Nematode Effectors and Evolutionary Constraints. , 2011, , 287-307.		8
38	Microsatellite markers reveal two genetic groups in European populations of the carrot cyst nematode Heterodera carotae. Infection, Genetics and Evolution, 2019, 73, 81-92.	2.3	8
39	Intra-species DNA polymorphism in the tobacco cyst â€“ nematode complex (Globodera) Tj ETQq1 1 0.784314 rgBT /Overlock	2.0	7
40	Evolution and variability of Solanum RanGAP2, a cofactor in the incompatible interaction between the resistance protein GPA2 and the Globodera pallida effector Gp-RBP-1. BMC Evolutionary Biology, 2013, 13, 87.	3.2	6
41	Evidence of strong gene flow among French populations of the carrot cyst nematodeHeterodera carotae. Plant Pathology, 2020, 69, 168-176.	2.4	6
42	Sequence Polymorphism of 2 Pioneer Genes Expressed in Phytoparasitic Nematodes Showing Different Host Ranges. Journal of Heredity, 2007, 98, 611-619.	2.4	5
43	Phenotypic and Genomic Modifications Associated with Globodera pallida Adaptation to Potato Resistances. Potato Research, 2018, 61, 65-71.	2.7	4
44	Populations of the Beet Cyst Nematode Heterodera schachtii Exhibit Strong Differences in Their Life-History Traits Across Changing Thermal Conditions. Frontiers in Microbiology, 2018, 9, 2801.	3.5	4
45	Plantâ€“parasite coevolution: A weak signature of local adaptation between Peruvian Globodera pallida populations and wild potatoes. Ecology and Evolution, 2020, 10, 4156-4163.	1.9	4
46	Diversity of plant parasitic nematodes characterized from fields of the French national monitoring programme for the Columbia root-knot nematode. PLoS ONE, 2022, 17, e0265070.	2.5	4
47	Occurrence of the tobacco cyst nematode subspecies Globodera tabacum subsp. virginiae in France. European Journal of Plant Pathology, 2016, 144, 199-203.	1.7	3
48	Impact of agricultural practices and environmental variables on plant-parasitic nematode communities in fields at a landscapeÂscale. Nematology, 2018, 20, 211-233.	0.6	3
49	Monitoring and tackling genetic selection in the potato cyst nematode Globodera pallida. EFSA Supporting Publications, 2020, 17, 1874E.	0.7	3
50	Impact of native plantâ€parasitic nematode communities on the establishment of Meloidogyne chitwoodi. Plant Pathology, 2018, 67, 2019-2027.	2.4	2
51	La lutte contre les nÃ©matodes Ã kyste de la pomme de terre GloboderaÂrostochiensis et GloboderaÂpallida. Cahiers Agricultures, 2008, 17, 368-374.	0.9	2
52	A species-specific satellite DNA from the entomopathogenic nematode Heterorhabditis indicus. Genome, 1998, 41, 148-153.	2.0	1
53	Characterization of Globodera ellingtonae Populations from Chile Utilizing Whole Genome Sequencing. Journal of Nematology, 2021, 53, 1-9.	0.9	0