

Neil Boonham

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114
papers

3,078
citations

32
h-index

51
g-index

118
ext. papers

3,923
ext. citations

3
avg, IF

5.14
L-index

#	Paper	IF	Citations
114	Next-generation sequencing and metagenomic analysis: a universal diagnostic tool in plant virology. <i>Molecular Plant Pathology</i> , 2009 , 10, 537-45	5.7	250
113	Methods in virus diagnostics: from ELISA to next generation sequencing. <i>Virus Research</i> , 2014 , 186, 20-31	6.4	237
112	Phytoplasma phylogenetics based on analysis of secA and 23S rRNA gene sequences for improved resolution of candidate species of 'Candidatus Phytoplasma'. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2008 , 58, 1826-37	2.2	134
111	Advances in molecular phytodiagnostics - new solutions for old problems. <i>European Journal of Plant Pathology</i> , 2006 , 116, 1-19	2.1	105
110	Microarrays for rapid identification of plant viruses. <i>Annual Review of Phytopathology</i> , 2007 , 45, 307-28	10.8	89
109	Needle in a haystack? A comparison of eDNA metabarcoding and targeted qPCR for detection of the great crested newt (<i>Ambystoma opacum</i>). <i>Ecology and Evolution</i> , 2018 , 8, 6330-6341	2.8	87
108	Next Generation Sequencing for Detection and Discovery of Plant Viruses and Viroids: Comparison of Two Approaches. <i>Frontiers in Microbiology</i> , 2017 , 8, 1998	5.7	87
107	Detection of African swine fever virus by loop-mediated isothermal amplification. <i>Journal of Virological Methods</i> , 2010 , 164, 68-74	2.6	84
106	Exploiting generic platform technologies for the detection and identification of plant pathogens. <i>European Journal of Plant Pathology</i> , 2008 , 121, 355-363	2.1	80
105	Development of real-time PCR (TaqMan) assays for the detection and quantification of <i>Botrytis cinerea</i> in planta. <i>Plant Physiology and Biochemistry</i> , 2005 , 43, 890-9	5.4	80
104	Use of next-generation sequencing for the identification and characterization of Maize chlorotic mottle virus and Sugarcane mosaic virus causing maize lethal necrosis in Kenya. <i>Plant Pathology</i> , 2013 , 62, 741-749	2.8	79
103	Prospects and challenges of environmental DNA (eDNA) monitoring in freshwater ponds. <i>Hydrobiologia</i> , 2019 , 826, 25-41	2.4	79
102	Development of a One-Step Real-Time Polymerase Chain Reaction Assay for Diagnosis of <i>Phytophthora ramorum</i> . <i>Phytopathology</i> , 2006 , 96, 975-81	3.8	66
101	The detection of tuber necrotic isolates of Potato virus Y, and the accurate discrimination of PVY(O), PVY(N) and PVY(C) strains using RT-PCR. <i>Journal of Virological Methods</i> , 2002 , 102, 103-12	2.6	64
100	LAMP assay and rapid sample preparation method for on-site detection of <i>Flavescence dorée</i> phytoplasma in grapevine. <i>Plant Pathology</i> , 2015 , 64, 286-296	2.8	59
99	<i>Erwinia amylovora</i> loop-mediated isothermal amplification (LAMP) assay for rapid pathogen detection and on-site diagnosis of fire blight. <i>Journal of Microbiological Methods</i> , 2013 , 92, 332-9	2.8	58
98	Panel of 23S rRNA gene-based real-time PCR assays for improved universal and group-specific detection of phytoplasmas. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 2945-50	4.8	55

97	Application of high-throughput DNA sequencing in phytopathology. <i>Annual Review of Phytopathology</i> , 2011 , 49, 87-105	10.8	53
96	Carrot yellow leaf virus is associated with carrot internal necrosis. <i>PLoS ONE</i> , 2014 , 9, e109125	3.7	52
95	Application of HTS for Routine Plant Virus Diagnostics: State of the Art and Challenges. <i>Frontiers in Plant Science</i> , 2018 , 9, 1082	6.2	45
94	Satellite DNA as a target for TaqMan real-time PCR detection of the pinewood nematode, <i>Bursaphelenchus xylophilus</i> . <i>Molecular Plant Pathology</i> , 2007 , 8, 803-9	5.7	42
93	Interactions between a luteovirus and the GroEL chaperonin protein of the symbiotic bacterium <i>Buchnera aphidicola</i> of aphids. <i>Journal of General Virology</i> , 2011 , 92, 1467-1474	4.9	41
92	A new quantitative real-time PCR assay for <i>Rhizoctonia solani</i> AG3-PT and the detection of AGs of <i>Rhizoctonia solani</i> associated with potato in soil and tuber samples in Great Britain. <i>European Journal of Plant Pathology</i> , 2013 , 136, 273-280	2.1	40
91	Microsporidia infection impacts the host cell's cycle and reduces host cell apoptosis. <i>PLoS ONE</i> , 2017 , 12, e0170183	3.7	40
90	Loop-mediated isothermal amplification for rapid detection of the causal agents of cassava brown streak disease. <i>Journal of Virological Methods</i> , 2013 , 191, 148-54	2.6	39
89	High throughput real-time RT-PCR assays for specific detection of cassava brown streak disease causal viruses, and their application to testing of planting material. <i>Plant Pathology</i> , 2013 , 62, 233-242	2.8	38
88	Use of loop-mediated isothermal amplification for detection of <i>Ophiostoma clavatum</i> , the primary blue stain fungus associated with <i>Ips acuminatus</i> . <i>Applied and Environmental Microbiology</i> , 2013 , 79, 2527-33	4.8	34
87	From laboratory to point of entry: development and implementation of a loop-mediated isothermal amplification (LAMP)-based genetic identification system to prevent introduction of quarantine insect species. <i>Pest Management Science</i> , 2018 , 74, 1504-1512	4.6	33
86	Genomics-informed design of loop-mediated isothermal amplification for detection of phytopathogenic <i>Xanthomonas arboricola</i> pv. <i>pruni</i> at the intraspecific level. <i>Plant Pathology</i> , 2013 , 62, 475-484	2.8	33
85	The reliable detection of Barley yellow and mild mosaic viruses using real-time PCR (TaqMan). <i>Journal of Virological Methods</i> , 2004 , 117, 153-9	2.6	33
84	The role and challenges of new diagnostic technology in plant biosecurity. <i>Food Security</i> , 2016 , 8, 103-108.7	7	32
83	First detection of Kashmir bee virus in the UK using real-time PCR. <i>Apidologie</i> , 2007 , 38, 181-190	2.3	32
82	Host Range Studies for Tomato chlorosis virus, and Cucumber vein yellowing virus Transmitted by <i>Bemisia tabaci</i> (Gennadius). <i>European Journal of Plant Pathology</i> , 2006 , 114, 265-273	2.1	31
81	The complete genome sequence of Piper yellow mottle virus (PYMoV). <i>Archives of Virology</i> , 2014 , 159, 385-8	2.6	30
80	A review of pest surveillance techniques for detecting quarantine pests in Europe. <i>EPPO Bulletin</i> , 2012 , 42, 515-551	1	29

79	Molecular quantification of symbiotic dinoflagellate algae of the genus <i>Symbiodinium</i> . <i>Biological Bulletin</i> , 2007 , 212, 259-68	1.5	29
78	The Biology and Phylogenetics of Potato virus S Isolates from the Andean Region of South America. <i>Plant Disease</i> , 2018 , 102, 869-885	1.5	26
77	Co-infection with Cucumber vein yellowing virus and Cucurbit yellow stunting disorder virus leading to synergism in cucumber. <i>Plant Pathology</i> , 2012 , 61, 468-478	2.8	25
76	A DNA method for screening hive debris for the presence of small hive beetle (<i>Aethina tumida</i>). <i>Apidologie</i> , 2007 , 38, 272-280	2.3	22
75	Rapid, specific, simple, in-field detection of <i>Xanthomonas campestris</i> pathovar <i>musacearum</i> by loop-mediated isothermal amplification. <i>Journal of Applied Microbiology</i> , 2015 , 119, 1651-8	4.7	21
74	Rapid detection of <i>Fusarium oxysporum</i> f. sp. <i>lactucae</i> on soil, lettuce seeds and plants using loop-mediated isothermal amplification. <i>Plant Pathology</i> , 2018 , 67, 1462-1473	2.8	19
73	Potato Virus Y from <i>Petunia</i> can cause Symptoms of Potato Tuber Necrotic Ringspot Disease (PTNRD). <i>European Journal of Plant Pathology</i> , 1999 , 105, 617-621	2.1	19
72	DNA barcoding for biosecurity: case studies from the UK plant protection program. <i>Genome</i> , 2016 , 59, 1033-1048	2.4	19
71	The impact of high throughput sequencing on plant health diagnostics. <i>European Journal of Plant Pathology</i> , 2018 , 152, 909-919	2.1	19
70	Development of a lateral flow device for in-field detection and evaluation of PCR-based diagnostic methods for pv. , the causal agent of banana xanthomonas wilt. <i>Plant Pathology</i> , 2015 , 64, 559-567	2.8	17
69	Development of Loop-Mediated Isothermal Amplification Assays for the Detection of Seedborne Fungal Pathogens <i>Fusarium fujikuroi</i> and <i>Magnaporthe oryzae</i> in Rice Seed. <i>Plant Disease</i> , 2018 , 102, 1549-1558	1.5	17
68	A loop-mediated isothermal amplification-based method for confirmation of <i>Guignardia citricarpa</i> in citrus black spot lesions. <i>European Journal of Plant Pathology</i> , 2013 , 136, 217-224	2.1	17
67	A new large scale soil DNA extraction procedure and real-time PCR assay for the detection of <i>Sclerotium cepivorum</i> in soil. <i>European Journal of Plant Pathology</i> , 2012 , 134, 467-473	2.1	17
66	Yellowing disease in zucchini squash produced by mixed infections of Cucurbit yellow stunting disorder virus and Cucumber vein yellowing virus. <i>Phytopathology</i> , 2011 , 101, 1365-72	3.8	17
65	Resistance screening against Cucumber vein yellowing virus using a real-time (Taqman) RT-PCR assay in cucumber (<i>Cucumis sativus</i>). <i>Crop Protection</i> , 2009 , 28, 109-112	2.7	17
64	A pathogenicity determinant maps to the N-terminal coat protein region of the Pepino mosaic virus genome. <i>Molecular Plant Pathology</i> , 2015 , 16, 308-15	5.7	15
63	Towards specific diagnosis of plant-parasitic nematodes using DNA oligonucleotide microarray technology: a case study with the quarantine species <i>Meloidogyne chitwoodi</i> . <i>Molecular and Cellular Probes</i> , 2006 , 20, 64-9	3.3	15
62	First record of the Q Biotype of the sweetpotato whitefly, <i>Bemisia tabaci</i> , intercepted in the UK. <i>European Journal of Plant Pathology</i> , 2012 , 133, 797-801	2.1	14

61	Transcriptome sequencing identifies novel persistent viruses in herbicide resistant wild-grasses. <i>Scientific Reports</i> , 2017 , 7, 41987	4.9	13
60	Identifying bacterial predictors of honey bee health. <i>Journal of Invertebrate Pathology</i> , 2016 , 141, 41-44	2.6	13
59	Direct detection of plant viruses in potato tubers using real-time PCR. <i>Methods in Molecular Biology</i> , 2009 , 508, 249-58	1.4	13
58	Molecular and biological characterization of Potato mop-top virus (PMTV, Pomovirus) isolates from the potato-growing regions of Colombia. <i>Plant Pathology</i> , 2016 , 65, 1210-1220	2.8	13
57	The Effects of Plant Virus Infection on Polarization Reflection from Leaves. <i>PLoS ONE</i> , 2016 , 11, e0152836	3.7	12
56	Molecular and biological characterisation of two novel pomo-like viruses associated with potato (<i>Solanum tuberosum</i>) fields in Colombia. <i>Archives of Virology</i> , 2016 , 161, 1601-10	2.6	12
55	Rapid Detection of and on Peach and Nectarine using Loop-Mediated Isothermal Amplification. <i>Plant Disease</i> , 2019 , 103, 2305-2314	1.5	11
54	Biological and Molecular Properties of Isolates from Pepino (). <i>Plant Disease</i> , 2019 , 103, 1746-1756	1.5	11
53	Fourier transform infra-red spectroscopy using an attenuated total reflection probe to distinguish between Japanese larch, pine and citrus plants in healthy and diseased states. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 163, 181-8	4.4	11
52	The complete genome sequences of two isolates of potato black ringspot virus and their relationship to other isolates and nepoviruses. <i>Archives of Virology</i> , 2014 , 159, 811-5	2.6	11
51	Complete genome sequence of arracacha virus B: a novel cheravirus. <i>Archives of Virology</i> , 2013 , 158, 909-13	2.6	11
50	Detection and transmission of Carrot torrado virus, a novel putative member of the Torradovirus genus. <i>Journal of Virological Methods</i> , 2016 , 235, 119-124	2.6	10
49	Influence of the length of target DNA overhang proximal to the array surface on discrimination of single-base mismatches on a 25-mer oligonucleotide array. <i>BMC Research Notes</i> , 2014 , 7, 251	2.3	10
48	Plant pest surveillance: from satellites to molecules. <i>Emerging Topics in Life Sciences</i> , 2021 , 5, 275-287	3.5	10
47	Target-Site and Non-target-Site Resistance Mechanisms Confer Multiple and Cross-Resistance to ALS and ACCase Inhibiting Herbicides in From Spain. <i>Frontiers in Plant Science</i> , 2021 , 12, 625138	6.2	10
46	Potato Virus A Isolates from Three Continents: Their Biological Properties, Phylogenetics, and Prehistory. <i>Phytopathology</i> , 2021 , 111, 217-226	3.8	10
45	Exploiting generic platform technologies for the detection and identification of plant pathogens 2008 , 355-363		10
44	Generating and testing ecological hypotheses at the pondscape with environmental DNA metabarcoding: A case study on a threatened amphibian. <i>Environmental DNA</i> , 2020 , 2, 184-199	7.6	9

43	Development of a real-time PCR assay for detection of <i>Phytophthora kernoviae</i> and comparison of this method with a conventional culturing technique. <i>European Journal of Plant Pathology</i> , 2011 , 131, 695-703	2.1	9
42	Detection of honey bee (<i>Apis mellifera</i>) viruses with an oligonucleotide microarray. <i>Journal of Invertebrate Pathology</i> , 2011 , 107, 216-9	2.6	8
41	A TaqMan real-time PCR assay for <i>Rhizoctonia cerealis</i> and its use in wheat and soil. <i>European Journal of Plant Pathology</i> , 2017 , 148, 237-245	2.1	7
40	Evaluation and validation of a loop-mediated isothermal amplification test kit for detection of <i>Hymenoscyphus fraxineus</i> . <i>European Journal of Plant Pathology</i> , 2017 , 149, 253-259	2.1	7
39	First Report of Carrot torradovirus 1 (CaTV1), a Member of the Torradovirus Genus, Infecting Carrots in France. <i>Plant Disease</i> , 2017 , 101, 1333-1333	1.5	7
38	Rapid molecular methods for in-field and laboratory identification of the yellow-legged Asian hornet (<i>Vespa velutina nigrithorax</i>). <i>Journal of Applied Entomology</i> , 2018 , 142, 610-616	1.7	6
37	Facing Rose rosette virus: A risk to European rose cultivation. <i>Plant Pathology</i> , 2020 , 69, 1603-1617	2.8	6
36	The effect of post-harvest storage conditions on the development of black dot (<i>Colletotrichum coccodes</i>) on potato in crops grown for different durations. <i>Plant Pathology</i> , 2016 , 65, 1484-1491	2.8	6
35	Historical virus isolate collections: An invaluable resource connecting plant virology pre-sequencing and post-sequencing eras. <i>Plant Pathology</i> , 2021 , 70, 235-248	2.8	6
34	First Complete Genome Sequence of Isolated from a 38-Year-Old Sample from Peru. <i>Genome Announcements</i> , 2017 , 5,		5
33	A pond-side test for Guinea worm: Development of a loop-mediated isothermal amplification (LAMP) assay for detection of <i>Dracunculus medinensis</i> . <i>Experimental Parasitology</i> , 2020 , 217, 107960	2.1	5
32	A Primer on the Analysis of High-Throughput Sequencing Data for Detection of Plant Viruses. <i>Microorganisms</i> , 2021 , 9,	4.9	5
31	Evidence for different, host-dependent functioning of Rx against both wild-type and recombinant Pepino mosaic virus. <i>Molecular Plant Pathology</i> , 2016 , 17, 120-6	5.7	5
30	Complete Genomic Sequence of the Potyvirus , Obtained from a 33-Year-Old Mashua () Sample. <i>Microbiology Resource Announcements</i> , 2018 , 7,	1.3	5
29	High-Throughput Sequencing Facilitates Characterization of a "Forgotten" Plant Virus: The Case of a Henbane Mosaic Virus Infecting Tomato. <i>Frontiers in Microbiology</i> , 2018 , 9, 2739	5.7	5
28	The development of monoclonal antibodies to the secA protein of Cape St. Paul wilt disease phytoplasma and their evaluation as a diagnostic tool. <i>Molecular Biotechnology</i> , 2014 , 56, 803-13	3	4
27	The characterization of a subgenomic RNA and in vitro translation products of oat chlorotic stunt virus. <i>Virus Genes</i> , 1998 , 16, 141-5	2.3	4
26	Morphological and molecular evidence supporting the validity of <i>Trialeurodes lauri</i> and <i>T. ricini</i> (Hemiptera: Sternorrhyncha: Aleyrodidae). <i>European Journal of Entomology</i> , 2007 , 104, 295-301		4

25	Full-Genome Sequencing of a Virus from a 33-Year-Old Sample Demonstrates that Is Synonymous with. <i>Microbiology Resource Announcements</i> , 2018 , 7,	1.3	4
24	Complete Genome Sequence of from Bolivia, Obtained from a 33-Year-Old Sample. <i>Microbiology Resource Announcements</i> , 2018 , 7,	1.3	4
23	Dispersal of harmful fruit fly pests by international trade and a loop-mediated isothermal amplification assay to prevent their introduction. <i>Geospatial Health</i> , 2018 , 13,	2.2	4
22	Complete sequence and genomic annotation of carrot torradovirus 1. <i>Archives of Virology</i> , 2017 , 162, 2815-2819	2.6	3
21	High throughput sequencing and RT-qPCR assay reveal the presence of rose cryptic virus-1 in the United Kingdom. <i>Journal of Plant Pathology</i> , 2019 , 101, 1171-1175	1	3
20	Expression microarrays in plant-virus interaction. <i>Methods in Molecular Biology</i> , 2008 , 451, 583-613	1.4	3
19	Microarray platform for the detection of a range of plant viruses and viroids. <i>Methods in Molecular Biology</i> , 2015 , 1302, 273-82	1.4	3
18	Real-Time LAMP for <i>Chalara fraxinea</i> Diagnosis. <i>Methods in Molecular Biology</i> , 2015 , 1302, 75-83	1.4	3
17	Generating and testing ecological hypotheses at the pondscape with environmental DNA metabarcoding: a case study on a threatened amphibian		3
16	The Phylogeography of Potato Virus X Shows the Fingerprints of Its Human Vector. <i>Viruses</i> , 2021 , 13,	6.2	3
15	Using network ecology to understand and mitigate long-term insect declines. <i>Ecological Entomology</i> , 2021 , 46, 693-698	2.1	3
14	Development and Validation of Methodology for Estimating Potato Canopy Structure for Field Crop Phenotyping and Improved Breeding. <i>Frontiers in Plant Science</i> , 2021 , 12, 612843	6.2	3
13	A Loop-mediated Isothermal Amplification (LAMP) Assay for Rapid Identification of <i>Bemisia tabaci</i> . <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	3
12	Genomic sequence and host range studies reveal considerable variation within the species <i>Arracacha virus B</i> . <i>Archives of Virology</i> , 2019 , 164, 2849-2852	2.6	2
11	Monitoring and Surveillance of Aerial Mycobiota of Rice Paddy through DNA Metabarcoding and qPCR. <i>Journal of Fungi (Basel, Switzerland)</i> , 2020 , 6,	5.6	2
10	The plant viruses and viroids database and collections of Q-bank. <i>EPPO Bulletin</i> , 2013 , 43, 238-243	1	2
9	Genome sequence of vanilla distortion mosaic virus infecting <i>Coriandrum sativum</i> . <i>Archives of Virology</i> , 2014 , 159, 3463-5	2.6	2
8	Next-Generation Sequencing and Metagenomic Analysis: A Universal Diagnostic Tool in Plant Pathology 2011 , 63-72		2

7	On-Site Testing: Moving Decision Making from the Lab to the Field 2014 , 135-146		2
6	A 33-Year-Old Plant Sample Contributes the First Complete Genomic Sequence of. <i>Microbiology Resource Announcements</i> , 2018 , 7,	1.3	2
5	Investigating the viral causes of internal necrosis in carrot. <i>Acta Horticulturae</i> , 2017 , 245-250	0.3	1
4	Complete Coding Sequence of from a 40-Year-Old Sample from Peru. <i>Microbiology Resource Announcements</i> , 2019 , 8,	1.3	1
3	The effects of surface structure mutations in <i>Arabidopsis thaliana</i> on the polarization of reflections from virus-infected leaves. <i>PLoS ONE</i> , 2017 , 12, e0174014	3.7	1
2	Development of simplex and multiplex RT-qPCR assays for the detection of three cryptic viruses of black-grass (<i>Alopecurus myosuroides</i>). <i>Journal of Virological Methods</i> , 2021 , 300, 114389	2.6	0
1	A novel high-throughput sequencing approach reveals the presence of a new virus infecting Rosa: rosa ilarvirus-1 (RIV-1).. <i>Journal of Virological Methods</i> , 2021 , 300, 114417	2.6	0