Guillaume J Bilodeau

List of Publications by Year in Descending Order

59 papers	1,013 citations	19 h-index	30 g-index
65 ext. papers	1,324 ext. citations	3.9 avg, IF	4.33 L-index

#	Paper	IF	Citations
59	Honey bees as biomonitors of environmental contaminants, pathogens, and climate change. *Ecological Indicators*, **2022**, 134, 108457	5.8	7
58	Genomic biosurveillance detects a sexual hybrid in the sudden oak death pathogen.. *Communications Biology*, **2022**, 5, 477	6.7	0
57	Biomonitoring of Fungal and Oomycete Plant Pathogens by Using Metabarcoding. *Methods in Molecular Biology*, **2022**, 309-346	1.4	
56	Monitoring airborne inoculum for improved plant disease management. A review. *Agronomy for Sustainable Development*, **2021**, 41, 1	6.8	1
55	In Silico Study Suggesting the Bias of Primers Choice in the Molecular Identification of Fungal Aerosols. *Journal of Fungi (Basel, Switzerland)*, **2021**, 7,	5.6	2
54	Genotyping by sequencing suggests overwintering of Peronospora destructor in southwestern QuÞec, Canada.. *Molecular Plant Pathology*, **2021**,	5.7	1
53	Factors Influencing the Occurrence of Onion Downy Mildew (Peronospora destructor) Epidemics: Trends from 31 Years of Observational Data. *Agronomy*, **2020**, 10, 738	3.6	3
52	Whole Genome Sequencing Resource of the European Larch Canker Pathogen for Molecular Diagnostic Marker Development. *Phytopathology*, **2020**, 110, 1255-1259	3.8	1
51	Identification and characterization of Colletotrichum species causing apple bitter rot in New York and description of C. noveboracense sp. nov. *Scientific Reports*, **2020**, 10, 11043	4.9	17
50	Comparison of the performance of ITS1 and ITS2 as barcodes in amplicon-based sequencing of bioaerosols. *PeerJ*, **2020**, 8, e8523	3.1	23
49	The Ecobiomics project: Advancing metagenomics assessment of soil health and freshwater quality in Canada. *Science of the Total Environment*, **2020**, 710, 135906	10.2	11
48	Monitoring of Primary and Secondary Inoculum by Real-Time qPCR. *Plant Disease*, **2020**, 104, 3183-3191	1.5	3
47	In Situ Processing and Efficient Environmental Detection (iSPEED) of tree pests and pathogens using point-of-use real-time PCR. *PLoS ONE*, **2020**, 15, e0226863	3.7	10
46	Validation of a Preformulated, Field Deployable, Recombinase Polymerase Amplification Assay for Species. *Plants*, **2020**, 9,	4.5	2
45	In Situ Processing and Efficient Environmental Detection (iSPEED) of tree pests and pathogens using point-of-use real-time PCR **2020**, 15, e0226863		
44	In Situ Processing and Efficient Environmental Detection (iSPEED) of tree pests and pathogens using point-of-use real-time PCR **2020**, 15, e0226863		
43	In Situ Processing and Efficient Environmental Detection (iSPEED) of tree pests and pathogens using point-of-use real-time PCR **2020**, 15, e0226863		

42	In Situ Processing and Efficient Environmental Detection (iSPEED) of tree pests and pathogens using point-of-use real-time PCR **2020**, 15, e0226863		
41	In Situ Processing and Efficient Environmental Detection (iSPEED) of tree pests and pathogens using point-of-use real-time PCR **2020**, 15, e0226863		
40	High-resolution biomonitoring of plant pathogens and plant species using metabarcoding of pollen pellet contents collected from a honey bee hive. *Environmental DNA*, **2019**, 1, 155-175	7.6	13
39	Improved detection and identification of the sudden oak death pathogen Phytophthora ramorum and the Port Orford cedar root pathogen Phytophthora lateralis. *Plant Pathology*, **2019**, 68, 878-888	2.8	4
38	Mitotic Recombination and Rapid Genome Evolution in the Invasive Forest Pathogen. *MBio*, **2019**, 10,	7.8	34
37	Recovery of Fungal Cells from Air Samples: a Tale of Loss and Gain. *Applied and Environmental Microbiology*, **2019**, 85,	4.8	16
36	Biosurveillance of forest insects: part I Integration and application of genomic tools to the surveillance of non-native forest insects. *Journal of Pest Science*, **2019**, 92, 51-70	5.5	22
35	Biosurveillance of forest insects: part II Adoption of genomic tools by end user communities and barriers to integration. *Journal of Pest Science*, **2019**, 92, 71-82	5.5	11
34	High-Throughput Sequencing to Investigate Phytopathogenic Fungal Propagules Caught in Baited Insect Traps. *Journal of Fungi (Basel, Switzerland)*, **2019**, 5,	5.6	4
33	Fungal aerosols at dairy farms using molecular and culture techniques. *Science of the Total Environment*, **2019**, 653, 253-263	10.2	27
32	Genome-Enhanced Detection and Identification (GEDI) of plant pathogens. *PeerJ*, **2018**, 6, e4392	3.1	15
31	Screening for Exotic Forest Pathogens to Increase Survey Capacity Using Metagenomics. *Phytopathology*, **2018**, 108, 1509-1521	3.8	16
30	Advances in Diagnostics of Downy Mildews: Lessons Learned from Other Oomycetes and Future Challenges. *Plant Disease*, **2018**, 102, 265-275	1.5	22
29	An amplicon-based sequencing approach for the study of aeromycology. *Journal of Xenobiotics*, **2018**, 8, 7810	1	0
28	Detection of Diplodia corticola spores in Ontario and Quebec based on High Throughput Sequencing (HTS) methods. *Canadian Journal of Plant Pathology*, **2018**, 40, 378-386	1.6	12
27	Bioaerosol Sampler Choice Should Consider Efficiency and Ability of Samplers To Cover Microbial Diversity. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	29
26	Fungal bioaerosols in biomethanization facilities. *Journal of the Air and Waste Management Association*, **2018**, 68, 1198-1210	2.4	17
25	An Overview of Canadian Research Activities on Diseases Caused by Phytophthora ramorum: Results, Progress, and Challenges. *Plant Disease*, **2018**, 102, 1218-1233	1.5	5

24	Metaxa2 Database Builder: enabling taxonomic identification from metagenomic or metabarcoding data using any genetic marker. *Bioinformatics*, **2018**, 34, 4027-4033	7.2	26
23	Separation and concentration of Phytophthora ramorum sporangia by inertial focusing in curving microfluidic flows. *Microfluidics and Nanofluidics*, **2017**, 21, 1	2.8	11
22	Development and Validation of Polymorphic Microsatellite Loci for the NA2 Lineage of Phytophthora ramorum from Whole Genome Sequence Data. *Plant Disease*, **2017**, 101, 666-673	1.5	10
21	A next generation sequencing approach with a suitable bioinformatics workflow to study fungal diversity in bioaerosols released from two different types of composting plants. *Science of the Total Environment*, **2017**, 601-602, 1306-1314	10.2	42
20	Systematic Development of Phytophthora Species-Specific Mitochondrial Diagnostic Markers for Economically Important Members of the Genus. *Plant Disease*, **2017**, 101, 1162-1170	1.5	22
19	Development of Real-Time Isothermal Amplification Assays for On-Site Detection of Phytophthora infestans in Potato Leaves. *Plant Disease*, **2017**, 101, 1269-1277	1.5	31
18	Genome Analysis and Development of a Multiplex TaqMan Real-Time PCR for Specific Identification and Detection of Clavibacter michiganensis subsp. nebraskensis. *Phytopathology*, **2016**, 106, 1473-1485	3.8	9
17	Anthropogenic signature in the incidence and distribution of an emerging pathogen of poplars. *Biological Invasions*, **2016**, 18, 1147-1161	2.7	9
16	Real-time PCR identification of the ambrosia beetles, Trypodendron domesticum (L.) and Trypodendron lineatum (Olivier) (Coleoptera: Scolytidae). *Journal of Applied Entomology*, **2016**, 140, 299-307	1.7	2
15	Development of Polymorphic Microsatellite Loci for Potato Wart from Next-Generation Sequence Data. *Phytopathology*, **2016**, 106, 636-44	3.8	11
14	Identification of the Dominant Genotypes of Phytophthora infestans in Canada Using Real-Time PCR with ASO-PCR Assays. *Plant Disease*, **2016**, 100, 1482-1491	1.5	2
13	Genome sequences of six species threatening forest ecosystems. *Genomics Data*, **2016**, 10, 85-88		20
12	Molecular Detection of 10 of the Most Unwanted Alien Forest Pathogens in Canada Using Real-Time PCR. *PLoS ONE*, **2015**, 10, e0134265	3.7	41
11	Draft Genome Sequence of Clavibacter michiganensis subsp. nebraskensis Strain DOAB 397, Isolated from an Infected Field Corn Plant in Manitoba, Canada. *Genome Announcements*, **2015**, 3,		9
10	Integrated air stream micromixer for performing bioanalytical assays on a plastic chip. *Lab on A Chip* , **2014**, 14, 3750-61	7.2	11
9	Real-time PCR assay to distinguish Phytophthora ramorum lineages using the cellulose binding elicitor lectin (CBEL) locus. *Canadian Journal of Plant Pathology*, **2014**, 36, 367-376	1.6	12
8	Development of a multiplex assay for genus- and species-specific detection of Phytophthora based on differences in mitochondrial gene order. *Phytopathology*, **2014**, 104, 733-48	3.8	55
7	Membrane-based oligonucleotide array developed from multiple markers for the detection of many Phytophthora species. *Phytopathology*, **2013**, 103, 43-54	3.8	20

6	Development of an assay for rapid detection and quantification of Verticillium dahliae in soil. *Phytopathology*, **2012**, 102, 331-43	3.8	112
5	Multiplex real-time polymerase chain reaction (PCR) for detection of Phytophthora ramorum, the causal agent of sudden oak death. *Canadian Journal of Plant Pathology*, **2009**, 31, 195-210	1.6	23
4	Standardizing the nomenclature for clonal lineages of the sudden oak death pathogen, Phytophthora ramorum. *Phytopathology*, **2009**, 99, 792-5	3.8	83
3	Evaluation of molecular markers for Phytophthora ramorum detection and identification: testing for specificity using a standardized library of isolates. *Phytopathology*, **2009**, 99, 390-403	3.8	28
2	Detection of cranberry fruit rot fungi using DNA array hybridization. *Canadian Journal of Plant Pathology*, **2008**, 30, 226-240	1.6	12
1	Molecular Detection of Phytophthora ramorum by Real-Time Polymerase Chain Reaction Using TaqMan, SYBR Green, and Molecular Beacons. *Phytopathology*, **2007**, 97, 632-42	3.8	80