

Gaelen R Burke

List of Publications by Year in descending order

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37
papers

2,467
citations

331670

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all docs

39
docs citations

39
times ranked

2202
citing authors

#	ARTICLE	IF	CITATIONS
1	Facultative Symbionts in Aphids and the Horizontal Transfer of Ecologically Important Traits. Annual Review of Entomology, 2010, 55, 247-266.	11.8	787
2	Massive Genomic Decay in <i>Serratia symbiotica</i> , a Recently Evolved Symbiont of Aphids. Genome Biology and Evolution, 2011, 3, 195-208.	2.5	186
3	Effects of facultative symbionts and heat stress on the metabolome of pea aphids. ISME Journal, 2010, 4, 242-252.	9.8	137
4	Distribution, Expression, and Motif Variability of Ankyrin Domain Genes in <i>Wolbachia pipientis</i> . Journal of Bacteriology, 2005, 187, 5136-5145.	2.2	126
5	Systematic analysis of a wasp parasitism arsenal. Molecular Ecology, 2014, 23, 890-901.	3.9	108
6	Polydnaviruses: Nature's Genetic Engineers. Annual Review of Virology, 2014, 1, 333-354.	6.7	90
7	Evolution and Diversity of Facultative Symbionts from the Aphid Subfamily Lachninae. Applied and Environmental Microbiology, 2009, 75, 5328-5335.	3.1	85
8	Widespread Genome Reorganization of an Obligate Virus Mutualist. PLoS Genetics, 2014, 10, e1004660.	3.5	83
9	Polydnavirus-wasp associations: evolution, genome organization, and function. Current Opinion in Virology, 2013, 3, 587-594.	5.4	81
10	Polydnaviruses: From discovery to current insights. Virology, 2015, 479-480, 393-402.	2.4	74
11	Deep Sequencing Identifies Viral and Wasp Genes with Potential Roles in Replication of <i>Microplitis demolitor</i> Bracovirus. Journal of Virology, 2012, 86, 3293-3306.	3.4	73
12	Mutualistic Polydnaviruses Share Essential Replication Gene Functions with Pathogenic Ancestors. PLoS Pathogens, 2013, 9, e1003348.	4.7	69
13	Polydnaviruses of Parasitic Wasps: Domestication of Viruses To Act as Gene Delivery Vectors. Insects, 2012, 3, 91-119.	2.2	58
14	Polydnaviruses as Symbionts and Gene Delivery Systems. PLoS Pathogens, 2012, 8, e1002757.	4.7	56
15	The Encapsidated Genome of <i>Microplitis demolitor</i> Bracovirus Integrates into the Host <i>Pseudoplusia includens</i> . Journal of Virology, 2011, 85, 11685-11696.	3.4	46
16	Rapid Viral Symbiogenesis via Changes in Parasitoid Wasp Genome Architecture. Molecular Biology and Evolution, 2018, 35, 2463-2474.	8.9	44
17	Dynamics of a Recurrent <i>Buchnera</i> Mutation That Affects Thermal Tolerance of Pea Aphid Hosts. Genetics, 2010, 186, 367-372.	2.9	38
18	Whole Genome Sequence of the Parasitoid Wasp <i>Microplitis demolitor</i> That Harbors an Endogenous Virus Mutualist. G3: Genes, Genomes, Genetics, 2018, 8, 2875-2880.	1.8	33

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19	Microplitis demolitor Bracovirus Proviral Loci and Clustered Replication Genes Exhibit Distinct DNA Amplification Patterns during Replication. <i>Journal of Virology</i> , 2015, 89, 9511-9523.	3.4	32
20	Dynamic Acquisition and Loss of Dual-Obligate Symbionts in the Plant-Sap-Feeding Adelgidae (Hemiptera: Sternorrhyncha: Aphidoidea). <i>Frontiers in Microbiology</i> , 2017, 8, 1037.	3.5	30
21	Phylogenomics of Ichneumonoidea (Hymenoptera) and implications for evolution of mode of parasitism and viral endogenization. <i>Molecular Phylogenetics and Evolution</i> , 2021, 156, 107023.	2.7	30
22	Common themes in three independently derived endogenous nudivirus elements in parasitoid wasps. <i>Current Opinion in Insect Science</i> , 2019, 32, 28-35.	4.4	28
23	Polydnaviruses: Evolution and Function. <i>Current Issues in Molecular Biology</i> , 2020, 34, 163-182.	2.4	23
24	A Mutualistic Poxvirus Exhibits Convergent Evolution with Other Heritable Viruses in Parasitoid Wasps. <i>Journal of Virology</i> , 2020, 94, .	3.4	21
25	Permissiveness of lepidopteran hosts is linked to differential expression of bracovirus genes. <i>Virology</i> , 2016, 492, 259-272.	2.4	16
26	Characterization of a venom gland-associated rhabdovirus in the parasitoid wasp <i>Diachasmimorpha longicaudata</i> . <i>Journal of Insect Physiology</i> , 2016, 91-92, 48-55.	2.0	15
27	Partnering With a Pest: Genomes of Hemlock Woolly Adelgid Symbionts Reveal Atypical Nutritional Provisioning Patterns in Dual-Obligate Bacteria. <i>Genome Biology and Evolution</i> , 2018, 10, 1607-1621.	2.5	15
28	The Presence of Ancient Core Genes Reveals Endogenization from Diverse Viral Ancestors in Parasitoid Wasps. <i>Genome Biology and Evolution</i> , 2021, 13, .	2.5	14
29	Bracoviruses, ichnoviruses, and virus-like particles from parasitoid wasps retain many features of their virus ancestors. <i>Current Opinion in Insect Science</i> , 2022, 49, 93-100.	4.4	14
30	Transitional genomes and nutritional role reversals identified for dual symbionts of adelgids (Aphidoidea: Adelgidae). <i>ISME Journal</i> , 2022, 16, 642-654.	9.8	11
31	Genomic analysis reveals an exogenous viral symbiont with dual functionality in parasitoid wasps and their hosts. <i>PLoS Pathogens</i> , 2020, 16, e1009069.	4.7	10
32	MdBVe46 is an envelope protein that is required for virion formation by <i>Microplitis demolitor</i> bracovirus. <i>Journal of General Virology</i> , 2021, 102, .	2.9	6
33	The Complete Genome of <i>Chelonus insularis</i> Reveals Dynamic Arrangement of Genome Components in Parasitoid Wasps That Produce Bracoviruses. <i>Journal of Virology</i> , 2022, 96, JVI0157321.	3.4	6
34	A viral mutualist employs posthatch transmission for vertical and horizontal spread among parasitoid wasps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2120048119.	7.1	6
35	Analysis of Genetic Variation across the Encapsidated Genome of <i>Microplitis demolitor</i> Bracovirus in Parasitoid Wasps. <i>PLoS ONE</i> , 2016, 11, e0158846.	2.5	4
36	Ecological factors influencing the beneficial endosymbionts of the hemlock woolly adelgid (Hemiptera: Adelgidae). <i>Insect Science</i> , 2019, 26, 97-107.	3.0	3

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37	Identifying bracovirus and ichnovirus genes involved in virion morphogenesis. <i>Current Opinion in Insect Science</i> , 2022, 49, 63-70.	4.4	3