

Hubert Charles

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

3,198
citations

236925

25
h-index

254184

43
g-index

52
all docs

52
docs citations

52
times ranked

3662
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome Sequence of the Pea Aphid <i>Acyrtosiphon pisum</i> . <i>PLoS Biology</i> , 2010, 8, e1000313.	5.6	913
2	Four intracellular genomes direct weevil biology: Nuclear, mitochondrial, principal endosymbiont, and Wolbachia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 6814-6819.	7.1	296
3	Genomic insight into the amino acid relations of the pea aphid, <i>Acyrtosiphon pisum</i> , with its symbiotic bacterium <i>Buchnera aphidicola</i> . <i>Insect Molecular Biology</i> , 2010, 19, 249-258.	2.0	219
4	Endosymbiont Phylogenesis in the Dryophthoridae Weevils: Evidence for Bacterial Replacement. <i>Molecular Biology and Evolution</i> , 2004, 21, 965-973.	8.9	182
5	MetExplore: a web server to link metabolomic experiments and genome-scale metabolic networks. <i>Nucleic Acids Research</i> , 2010, 38, W132-W137.	14.5	148
6	Molecular Characterization of the Principal Symbiotic Bacteria of the Weevil <i>Sitophilus oryzae</i> : A Peculiar G + C Content of an Endocytobiotic DNA. <i>Journal of Molecular Evolution</i> , 1998, 47, 52-61.	1.8	126
7	Physical and Genetic Map of the Genome of <i>Buchnera</i> , the Primary Endosymbiont of the Pea Aphid <i>Acyrtosiphon pisum</i> . <i>Journal of Molecular Evolution</i> , 1999, 48, 142-150.	1.8	91
8	<i>Drosophila</i> -associated bacteria differentially shape the nutritional requirements of their host during juvenile growth. <i>PLoS Biology</i> , 2020, 18, e3000681.	5.6	79
9	New insight into the RNA interference response against cathepsin-L gene in the pea aphid, <i>Acyrtosiphon pisum</i> : Molting or gut phenotypes specifically induced by injection or feeding treatments. <i>Insect Biochemistry and Molecular Biology</i> , 2014, 51, 20-32.	2.7	75
10	Direct flow cytometry measurements reveal a fine-tuning of symbiotic cell dynamics according to the host developmental needs in aphid symbiosis. <i>Scientific Reports</i> , 2016, 6, 19967.	3.3	71
11	Bacteriocyte cell death in the pea aphid/ <i>Buchnera</i> symbiotic system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1819-E1828.	7.1	69
12	ROSO: optimizing oligonucleotide probes for microarrays. <i>Bioinformatics</i> , 2004, 20, 271-273.	4.1	66
13	Effects of jackbean lectin (ConA) on the feeding behaviour and kinetics of intoxication of the pea aphid, <i>Acyrtosiphon pisum</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2004, 110, 31-44.	1.4	66
14	Different Levels of Transcriptional Regulation Due to Trophic Constraints in the Reduced Genome of <i>Buchnera aphidicola</i> APS. <i>Applied and Environmental Microbiology</i> , 2006, 72, 7760-7766.	3.1	56
15	Tyrosine pathway regulation is host-mediated in the pea aphid symbiosis during late embryonic and early larval development. <i>BMC Genomics</i> , 2013, 14, 235.	2.8	51
16	Systemic analysis of the symbiotic function of <i>Buchnera aphidicola</i> , the primary endosymbiont of the pea aphid <i>Acyrtosiphon pisum</i> . <i>Comptes Rendus - Biologies</i> , 2009, 332, 1034-1049.	0.2	49
17	A Molecular Aspect of Symbiotic Interactions between the Weevil <i>Sitophilus oryzae</i> and Its Endosymbiotic Bacteria: Over-expression of a Chaperonin. <i>Biochemical and Biophysical Research Communications</i> , 1997, 239, 769-774.	2.1	47
18	A Genomic Reappraisal of Symbiotic Function in the Aphid/ <i>Buchnera</i> Symbiosis: Reduced Transporter Sets and Variable Membrane Organisations. <i>PLoS ONE</i> , 2011, 6, e29096.	2.5	44

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19	The transposable element-rich genome of the cereal pest <i>Sitophilus oryzae</i> . <i>BMC Biology</i> , 2021, 19, 241.	3.8	40
20	Broad screening of the legume family for variability in seed insecticidal activities and for the occurrence of the A1b-like knottin peptide entomotoxins. <i>Phytochemistry</i> , 2007, 68, 521-535.	2.9	39
21	A putative insect intracellular endosymbiont stem clade, within the Enterobacteriaceae, inferred from phylogenetic analysis based on a heterogeneous model of DNA evolution. <i>Comptes Rendus De L'Acad�mie Des Sciences S�rie 3, Sciences De La Vie</i> , 2001, 324, 489-494.	0.8	38
22	Multimodal dynamic response of the <i>Buchnera aphidicola</i> pLeu plasmid to variations in leucine demand of its host, the pea aphid <i>Acyrtosiphon pisum</i> . <i>Molecular Microbiology</i> , 2011, 81, 1271-1285.	2.5	35
23	Graph-Based Analysis of the Metabolic Exchanges between Two Co-Resident Intracellular Symbionts, <i>Baumannia cicadellincola</i> and <i>Sulcia muelleri</i> , with Their Insect Host, <i>Homalodisca coagulata</i> . <i>PLoS Computational Biology</i> , 2010, 6, e1000904.	3.2	34
24	Disruption of phenylalanine hydroxylase reduces adult lifespan and fecundity, and impairs embryonic development in parthenogenetic pea aphids. <i>Scientific Reports</i> , 2016, 6, 34321.	3.3	34
25	Genome size characterization of the principal endocellular symbiotic bacteria of the weevil <i>Sitophilus oryzae</i> , using pulsed field gel electrophoresis. <i>Insect Biochemistry and Molecular Biology</i> , 1997, 27, 345-350.	2.7	32
26	Impact of Host Developmental Age on the Transcriptome of the Symbiotic Bacterium <i>Buchnera aphidicola</i> in the Pea Aphid (<i>Acyrtosiphon pisum</i>). <i>Applied and Environmental Microbiology</i> , 2009, 75, 7294-7297.	3.1	29
27	Conservation of the links between gene transcription and chromosomal organization in the highly reduced genome of <i>Buchnera aphidicola</i> . <i>BMC Genomics</i> , 2007, 8, 143.	2.8	26
28	Gene size reduction in the bacterial aphid endosymbiont, <i>Buchnera</i> . <i>Molecular Biology and Evolution</i> , 1999, 16, 1820-1822.	8.9	24
29	Addition of <i>wsp</i> Sequences to the <i>Wolbachia</i> Phylogenetic Tree and Stability of the Classification. <i>Journal of Molecular Evolution</i> , 2000, 51, 374-377.	1.8	23
30	ArthropodaCyc: a CycADS powered collection of BioCyc databases to analyse and compare metabolism of arthropods. <i>Database: the Journal of Biological Databases and Curation</i> , 2016, 2016, baw081.	3.0	22
31	Codon usage bias and tRNA over-expression in <i>Buchnera aphidicola</i> after aromatic amino acid nutritional stress on its host <i>Acyrtosiphon pisum</i> . <i>Nucleic Acids Research</i> , 2006, 34, 4583-4592.	14.5	21
32	Intracellular bacterial symbiosis in the genus <i>Sitophilus</i> : the "biological individual" concept revisited. <i>Research in Microbiology</i> , 2001, 152, 431-437.	2.1	20
33	Genomic analysis of the regulatory elements and links with intrinsic DNA structural properties in the shrunken genome of <i>Buchnera</i> . <i>BMC Genomics</i> , 2013, 14, 73.	2.8	20
34	Assessment of 35mer amino-modified oligonucleotide based microarray with bacterial samples. <i>Journal of Microbiological Methods</i> , 2004, 57, 207-218.	1.6	17
35	Sawfly Genomes Reveal Evolutionary Acquisitions That Fostered the Mega-Radiation of Parasitoid and Eusocial Hymenoptera. <i>Genome Biology and Evolution</i> , 2020, 12, 1099-1188.	2.5	17
36	CycADS: an annotation database system to ease the development and update of BioCyc databases. <i>Database: the Journal of Biological Databases and Curation</i> , 2011, 2011, bar008-bar008.	3.0	16

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37	Bacteriocyte Reprogramming to Cope With Nutritional Stress in a Phloem Sap Feeding Hemipteran, the Pea Aphid <i>Acyrtosiphon pisum</i> . <i>Frontiers in Physiology</i> , 2018, 9, 1498.	2.8	15
38	Exploration of the core metabolism of symbiotic bacteria. <i>BMC Genomics</i> , 2012, 13, 438.	2.8	11
39	Structure and dynamics of the operon map of <i>Buchnera aphidicola</i> sp. strain APS. <i>BMC Genomics</i> , 2010, 11, 666.	2.8	9
40	Evolutionary novelty in the apoptotic pathway of aphids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32545-32556.	7.1	9
41	Biodiversity of <i>Wolbachia</i> and of their effects in <i>Trichogramma</i> (Hymenoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 T65	0.9	7
42	Cytotype Affects the Capability of the Whitefly <i>Bemisia tabaci</i> MED Species To Feed and Oviposit on an Unfavorable Host Plant. <i>MBio</i> , 2021, 12, e0073021.	4.1	3
43	SITRANS: a Web Information System for Microarray Experiments. <i>Studies in Health Technology and Informatics</i> , 2005, 116, 33-8.	0.3	1
44	Comparative analysis of gene expression in an aphidâ€“ <i>Buchnera</i> symbiosis: The role of <i>Buchnera</i> in the nutrition of aphid embryos. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007, 146, S222.	1.8	0
45	Title is missing!. , 2020, 18, e3000681.		0
46	Title is missing!. , 2020, 18, e3000681.		0
47	Title is missing!. , 2020, 18, e3000681.		0
48	Title is missing!. , 2020, 18, e3000681.		0
49	Title is missing!. , 2020, 18, e3000681.		0
50	Title is missing!. , 2020, 18, e3000681.		0