Hubert Charles

List of Publications by Year
in descending order

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	The transposable element-rich genome of the cereal pest Sitophilus oryzae. BMC Biology, 2021, 19, 241.	3.8	40
2	Cytotype Affects the Capability of the Whitefly Bemisia tabaci MED Species To Feed and Oviposit on an Unfavorable Host Plant. MBio, 2021, 12, e0073021.	4.1	3
3	Evolutionary novelty in the apoptotic pathway of aphids. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32545-32556.	7.1	9
4	Drosophila-associated bacteria differentially shape the nutritional requirements of their host during juvenile growth. PLoS Biology, 2020, 18, e3000681.	5.6	79
5	Sawfly Genomes Reveal Evolutionary Acquisitions That Fostered the Mega-Radiation of Parasitoid and Eusocial Hymenoptera. Genome Biology and Evolution, 2020, 12, 1099-1188.	2.5	17
6	Title is missing!. , 2020, 18, e3000681.		0
7	Title is missing!. , 2020, 18, e3000681.		0
8	Title is missing!. , 2020, 18, e3000681.		0
9	Title is missing!. , 2020, 18, e3000681.		0
10	Title is missing!. , 2020, 18, e3000681.		0
11	Title is missing!. , 2020, 18, e3000681.		0
12	Bacteriocyte cell death in the pea aphid/ Buchnera symbiotic system. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1819-E1828.	7.1	69
13	Bacteriocyte Reprogramming to Cope With Nutritional Stress in a Phloem Sap Feeding Hemipteran, the Pea Aphid Acyrthosiphon pisum. Frontiers in Physiology, 2018, 9, 1498.	2.8	15
14	Disruption of phenylalanine hydroxylase reduces adult lifespan and fecundity, and impairs embryonic development in parthenogenetic pea aphids. Scientific Reports, 2016, 6, 34321.	3.3	34
15	Direct flow cytometry measurements reveal a fine-tuning of symbiotic cell dynamics according to the host developmental needs in aphid symbiosis. Scientific Reports, 2016, 6, 19967.	3.3	71
16	ArthropodaCyc: a CycADS powered collection of BioCyc databases to analyse and compare metabolism of arthropods. Database: the Journal of Biological Databases and Curation, 2016, 2016, baw081.	3.0	22
17	New insight into the RNA interference response against cathepsin-L gene in the pea aphid, Acyrthosiphon pisum: Molting or gut phenotypes specifically induced by injection or feeding treatments. Insect Biochemistry and Molecular Biology, 2014, 51, 20-32.	2.7	75
18	Tyrosine pathway regulation is host-mediated in the pea aphid symbiosis during late embryonic and early larval development. BMC Genomics, 2013, 14, 235.	2.8	51

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19	Genomic analysis of the regulatory elements and links with intrinsic DNA structural properties in the shrunken genome of Buchnera. BMC Genomics, 2013, 14, 73.	2.8	20
20	Exploration of the core metabolism of symbiotic bacteria. BMC Genomics, 2012, 13, 438.	2.8	11
21	A Genomic Reappraisal of Symbiotic Function in the Aphid/Buchnera Symbiosis: Reduced Transporter Sets and Variable Membrane Organisations. PLoS ONE, 2011, 6, e29096.	2.5	44
22	Multimodal dynamic response of the Buchnera aphidicola pLeu plasmid to variations in leucine demand of its host, the pea aphid Acyrthosiphon pisum. Molecular Microbiology, 2011, 81, 1271-1285.	2.5	35
23	CycADS: an annotation database system to ease the development and update of BioCyc databases. Database: the Journal of Biological Databases and Curation, 2011, 2011, bar008-bar008.	3.0	16
24	Structure and dynamics of the operon map of Buchnera aphidicola sp. strain APS. BMC Genomics, 2010, 11, 666.	2.8	9
25	Genomic insight into the amino acid relations of the pea aphid, Acyrthosiphon pisum, with its symbiotic bacterium Buchnera aphidicola. Insect Molecular Biology, 2010, 19, 249-258.	2.0	219
26	MetExplore: a web server to link metabolomic experiments and genome-scale metabolic networks. Nucleic Acids Research, 2010, 38, W132-W137.	14.5	148
27	Genome Sequence of the Pea Aphid Acyrthosiphon pisum. PLoS Biology, 2010, 8, e1000313.	5.6	913
28	Graph-Based Analysis of the Metabolic Exchanges between Two Co-Resident Intracellular Symbionts, Baumannia cicadellinicola and Sulcia muelleri, with Their Insect Host, Homalodisca coagulata. PLoS Computational Biology, 2010, 6, e1000904.	3.2	34
29	Impact of Host Developmental Age on the Transcriptome of the Symbiotic Bacterium Buchnera aphidicola in the Pea Aphid (Acyrthosiphon pisum). Applied and Environmental Microbiology, 2009, 75, 7294-7297.	3.1	29
30	Systemic analysis of the symbiotic function of Buchnera aphidicola, the primary endosymbiont of the pea aphid Acyrthosiphon pisum. Comptes Rendus - Biologies, 2009, 332, 1034-1049.	0.2	49
31	Broad screening of the legume family for variability in seed insecticidal activities and for the occurrence of the A1b-like knottin peptide entomotoxins. Phytochemistry, 2007, 68, 521-535.	2.9	39
32	Conservation of the links between gene transcription and chromosomal organization in the highly reduced genome of Buchnera aphidicola. BMC Genomics, 2007, 8, 143.	2.8	26
33	Comparative analysis of gene expression in an aphidâ€“Buchnera symbiosis: The role of Buchnera in the nutrition of aphid embryos. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 146, S222.	1.8	0
34	Codon usage bias and tRNA over-expression in Buchnera aphidicola after aromatic amino acid nutritional stress on its host Acyrthosiphon pisum. Nucleic Acids Research, 2006, 34, 4583-4592.	14.5	21
35	Different Levels of Transcriptional Regulation Due to Trophic Constraints in the Reduced Genome of Buchnera aphidicola APS. Applied and Environmental Microbiology, 2006, 72, 7760-7766.	3.1	56
36	SITRANS: a Web Information System for Microarray Experiments. Studies in Health Technology and Informatics, 2005, 116, 33-8.	0.3	1

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37	ROSO: optimizing oligonucleotide probes for microarrays. Bioinformatics, 2004, 20, 271-273.	4.1	66
38	Endosymbiont Phylogenesis in the Dryophthoridae Weevils: Evidence for Bacterial Replacement. Molecular Biology and Evolution, 2004, 21, 965-973.	8.9	182
39	Effects of jackbean lectin (ConA) on the feeding behaviour and kinetics of intoxication of the pea aphid, Acyrthosiphon pisum. Entomologia Experimentalis Et Applicata, 2004, 110, 31-44.	1.4	66
40	Assessment of 35mer amino-modified oligonucleotide based microarray with bacterial samples. Journal of Microbiological Methods, 2004, 57, 207-218.	1.6	17
41	Biodiversity ofWolbachiaand of their effects inTrichogramma(Hymenoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.9	7
42	A putative insect intracellular endosymbiont stem clade, within the Enterobacteriaceae, infered from phylogenetic analysis based on a heterogeneous model of DNA evolution. Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie, 2001, 324, 489-494.	0.8	38
43	Intracellular bacterial symbiosis in the genus Sitophilus: the â€˜biological individualâ€™ concept revisited. Research in Microbiology, 2001, 152, 431-437.	2.1	20
44	Addition of wsp Sequences to the Wolbachia Phylogenetic Tree and Stability of the Classification. Journal of Molecular Evolution, 2000, 51, 374-377.	1.8	23
45	Four intracellular genomes direct weevil biology: Nuclear, mitochondrial, principal endosymbiont, and Wolbachia. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 6814-6819.	7.1	296
46	Physical and Genetic Map of the Genome of Buchnera, the Primary Endosymbiont of the Pea Aphid Acyrthosiphon pisum. Journal of Molecular Evolution, 1999, 48, 142-150.	1.8	91
47	Gene size reduction in the bacterial aphid endosymbiont, Buchnera. Molecular Biology and Evolution, 1999, 16, 1820-1822.	8.9	24
48	Molecular Characterization of the Principal Symbiotic Bacteria of the Weevil Sitophilus oryzae: A Peculiar G + C Content of an Endocytobiotic DNA. Journal of Molecular Evolution, 1998, 47, 52-61.	1.8	126
49	A Molecular Aspect of Symbiotic Interactions between the WeevilSitophilus oryzaeand Its Endosymbiotic Bacteria: Over-expression of a Chaperonin. Biochemical and Biophysical Research Communications, 1997, 239, 769-774.	2.1	47
50	Genome size characterization of the principal endocellular symbiotic bacteria of the weevil Sitophilus oryzae, using pulsed field gel electrophoresis. Insect Biochemistry and Molecular Biology, 1997, 27, 345-350.	2.7	32