

Nancy A Moran

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276
papers

37,736
citations

109
h-index

191
g-index

294
ext. papers

44,709
ext. citations

8.4
avg, IF

8.07
L-index

#	Paper	IF	Citations
276	A metagenomic survey of microbes in honey bee colony collapse disorder. <i>Science</i> , 2007 , 318, 283-7	33.3	1250
275	Genomics and evolution of heritable bacterial symbionts. <i>Annual Review of Genetics</i> , 2008 , 42, 165-90	14.5	1128
274	The gut microbiota of insects - diversity in structure and function. <i>FEMS Microbiology Reviews</i> , 2013 , 37, 699-735	15.1	1124
273	Facultative bacterial symbionts in aphids confer resistance to parasitic wasps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 1803-7	11.5	915
272	Extreme genome reduction in symbiotic bacteria. <i>Nature Reviews Microbiology</i> , 2011 , 10, 13-26	22.2	873
271	Accelerated evolution and Muller's ratchet in endosymbiotic bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 2873-8	11.5	784
270	Genome sequence of the pea aphid <i>Acyrtosiphon pisum</i> . <i>PLoS Biology</i> , 2010 , 8, e1000313	9.7	732
269	The Evolutionary Maintenance of Alternative Phenotypes. <i>American Naturalist</i> , 1992 , 139, 971-989	3.7	672
268	Facultative symbionts in aphids and the horizontal transfer of ecologically important traits. <i>Annual Review of Entomology</i> , 2010 , 55, 247-66	21.8	637
267	Deletional bias and the evolution of bacterial genomes. <i>Trends in Genetics</i> , 2001 , 17, 589-96	8.5	596
266	Microbial minimalism: genome reduction in bacterial pathogens. <i>Cell</i> , 2002 , 108, 583-6	56.2	553
265	50 million years of genomic stasis in endosymbiotic bacteria. <i>Science</i> , 2002 , 296, 2376-9	33.3	501
264	Functional diversity within the simple gut microbiota of the honey bee. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11002-7	11.5	470
263	Lateral transfer of genes from fungi underlies carotenoid production in aphids. <i>Science</i> , 2010 , 328, 624-7	33.3	448
262	Variation in resistance to parasitism in aphids is due to symbionts not host genotype. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 12795-800	11.5	439
261	Genes lost and genes found: evolution of bacterial pathogenesis and symbiosis. <i>Science</i> , 2001 , 292, 1096-9	33.3	429
260	Molecular interactions between bacterial symbionts and their hosts. <i>Cell</i> , 2006 , 126, 453-65	56.2	409

259	Genetics, physiology, and evolutionary relationships of the genus <i>Buchnera</i> : intracellular symbionts of aphids. <i>Annual Review of Microbiology</i> , 1995 , 49, 55-94	17.5	409
258	The 160-kilobase genome of the bacterial endosymbiont <i>Carsonella</i> . <i>Science</i> , 2006 , 314, 267	33.3	403
257	Gut microbial communities of social bees. <i>Nature Reviews Microbiology</i> , 2016 , 14, 374-84	22.2	364
256	Calibrating bacterial evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 12638-43	11.5	357
255	From gene trees to organismal phylogeny in prokaryotes: the case of the gamma-Proteobacteria. <i>PLoS Biology</i> , 2003 , 1, E19	9.7	355
254	A simple and distinctive microbiota associated with honey bees and bumble bees. <i>Molecular Ecology</i> , 2011 , 20, 619-28	5.7	349
253	Symbiosis as an adaptive process and source of phenotypic complexity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104 Suppl 1, 8627-33	11.5	346
252	Bacteriophages encode factors required for protection in a symbiotic mutualism. <i>Science</i> , 2009 , 325, 992-4	33.3	340
251	Metabolic complementarity and genomics of the dual bacterial symbiosis of sharpshooters. <i>PLoS Biology</i> , 2006 , 4, e188	9.7	327
250	Costs and benefits of symbiont infection in aphids: variation among symbionts and across temperatures. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006 , 273, 603-10	4.4	325
249	Establishment of characteristic gut bacteria during development of the honeybee worker. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 2830-40	4.8	305
248	Evolutionary relationships of three new species of Enterobacteriaceae living as symbionts of aphids and other insects. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 3302-10	4.8	295
247	Independent origins and horizontal transfer of bacterial symbionts of aphids. <i>Molecular Ecology</i> , 2001 , 10, 217-28	5.7	288
246	Symbiosis. <i>Current Biology</i> , 2006 , 16, R866-71	6.3	287
245	Genomic changes following host restriction in bacteria. <i>Current Opinion in Genetics and Development</i> , 2004 , 14, 627-33	4.9	280
244	Parallel genomic evolution and metabolic interdependence in an ancient symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19392-7	11.5	272
243	Aphid thermal tolerance is governed by a point mutation in bacterial symbionts. <i>PLoS Biology</i> , 2007 , 5, e96	9.7	272
242	The impact of microbial symbionts on host plant utilization by herbivorous insects. <i>Molecular Ecology</i> , 2014 , 23, 1473-96	5.7	267

241	Evolutionary origins of genomic repertoires in bacteria. <i>PLoS Biology</i> , 2005 , 3, e130	9.7	267
240	Aphid genome expression reveals host-symbiont cooperation in the production of amino acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 2849-54	11.5	265
239	Side-stepping secondary symbionts: widespread horizontal transfer across and beyond the Aphidoidea. <i>Molecular Ecology</i> , 2003 , 12, 1061-75	5.7	262
238	Heritable symbiosis: The advantages and perils of an evolutionary rabbit hole. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 10169-76	11.5	261
237	The players in a mutualistic symbiosis: insects, bacteria, viruses, and virulence genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 16919-26	11.5	261
236	Lifestyle evolution in symbiotic bacteria: insights from genomics. <i>Trends in Ecology and Evolution</i> , 2000 , 15, 321-326	10.9	261
235	The Hologenome Concept: Helpful or Hollow?. <i>PLoS Biology</i> , 2015 , 13, e1002311	9.7	259
234	Distinctive gut microbiota of honey bees assessed using deep sampling from individual worker bees. <i>PLoS ONE</i> , 2012 , 7, e36393	3.7	258
233	Symbiosis and insect diversification: an ancient symbiont of sap-feeding insects from the bacterial phylum Bacteroidetes. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 8802-10	4.8	257
232	Convergent evolution of metabolic roles in bacterial co-symbionts of insects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 15394-9	11.5	256
231	Glyphosate perturbs the gut microbiota of honey bees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 10305-10310	11.5	255
230	Population dynamics of defensive symbionts in aphids. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008 , 275, 293-9	4.4	251
229	Routes of Acquisition of the Gut Microbiota of the Honey Bee <i>Apis mellifera</i> . <i>Applied and Environmental Microbiology</i> , 2014 , 80, 7378-87	4.8	250
228	Functional convergence in reduced genomes of bacterial symbionts spanning 200 My of evolution. <i>Genome Biology and Evolution</i> , 2010 , 2, 708-18	3.9	244
227	Evidence for the establishment of aphid-eubacterium endosymbiosis in an ancestor of four aphid families. <i>Journal of Bacteriology</i> , 1991 , 173, 6321-4	3.5	243
226	The dynamics and time scale of ongoing genomic erosion in symbiotic bacteria. <i>Science</i> , 2009 , 323, 379-83	3.3	235
225	Adaptation and Constraint in the Complex Life Cycles of Animals. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1994 , 25, 573-600		233
224	Honeybee gut microbiota promotes host weight gain via bacterial metabolism and hormonal signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4775-4780	11.5	231

223	The tiniest tiny genomes. <i>Annual Review of Microbiology</i> , 2014 , 68, 195-215	17.5	220
222	Phylogenetics of cytoplasmically inherited microorganisms of arthropods. <i>Trends in Ecology and Evolution</i> , 1994 , 9, 15-20	10.9	214
221	Phylogenetics and the cohesion of bacterial genomes. <i>Science</i> , 2003 , 301, 829-32	33.3	213
220	Bacterial endosymbionts in animals. <i>Current Opinion in Microbiology</i> , 2000 , 3, 270-5	7.9	212
219	Bacteriocyte-Associated Symbionts of Insects. <i>BioScience</i> , 1998 , 48, 295-304	5.7	205
218	Genomics and host specialization of honey bee and bumble bee gut symbionts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11509-14	11.5	204
217	The consequences of genetic drift for bacterial genome complexity. <i>Genome Research</i> , 2009 , 19, 1450-4	9.7	204
216	Antibiotic exposure perturbs the gut microbiota and elevates mortality in honeybees. <i>PLoS Biology</i> , 2017 , 15, e2001861	9.7	204
215	Cospeciation of psyllids and their primary prokaryotic endosymbionts. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 2898-905	4.8	203
214	Cospeciation between bacterial endosymbionts (<i>Buchnera</i>) and a recent radiation of aphids (<i>Uroleucon</i>) and pitfalls of testing for phylogenetic congruence. <i>Evolution; International Journal of Organic Evolution</i> , 2000 , 54, 517-25	3.8	201
213	Sexual acquisition of beneficial symbionts in aphids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 12803-6	11.5	197
212	Origin of an alternative genetic code in the extremely small and GC-rich genome of a bacterial symbiont. <i>PLoS Genetics</i> , 2009 , 5, e1000565	6	193
211	Nitrogen recycling and nutritional provisioning by <i>Blattabacterium</i> , the cockroach endosymbiont. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 19521-6	11.5	192
210	Low nutritive quality as defense against herbivores. <i>Journal of Theoretical Biology</i> , 1980 , 86, 247-254	2.3	192
209	Costs and benefits of a superinfection of facultative symbionts in aphids. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006 , 273, 1273-80	4.4	190
208	Small, smaller, smallest: the origins and evolution of ancient dual symbioses in a Phloem-feeding insect. <i>Genome Biology and Evolution</i> , 2013 , 5, 1675-88	3.9	189
207	<i>Hamiltonella defensa</i> , genome evolution of protective bacterial endosymbiont from pathogenic ancestors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 9063-8	11.5	187
206	One bacterial cell, one complete genome. <i>PLoS ONE</i> , 2010 , 5, e10314	3.7	184

205	Dynamic microbiome evolution in social bees. <i>Science Advances</i> , 2017 , 3, e1600513	14.3	183
204	The process of genome shrinkage in the obligate symbiont <i>Buchnera aphidicola</i> . <i>Genome Biology</i> , 2001 , 2, RESEARCH0054	18.3	183
203	Estimating population size and transmission bottlenecks in maternally transmitted endosymbiotic bacteria. <i>Microbial Ecology</i> , 2002 , 44, 137-43	4.4	180
202	Nutritional enhancement of host plants by aphids - a comparison of three aphid species on grasses. <i>Journal of Insect Physiology</i> , 2000 , 46, 33-40	2.4	178
201	Sequence evolution in bacterial endosymbionts having extreme base compositions. <i>Molecular Biology and Evolution</i> , 1999 , 16, 1586-98	8.3	172
200	Cultivation and characterization of the gut symbionts of honey bees and bumble bees: description of <i>Snodgrassella alvi</i> gen. nov., sp. nov., a member of the family Neisseriaceae of the Betaproteobacteria, and <i>Gilliamella apicola</i> gen. nov., sp. nov., a member of Orbaceae fam. nov., <i>Cyberobacter</i> sp., a symbiont of the order Entomobacteriales of the Gammaproteobacteria.	2.2	168
199	Species response to environmental change: impacts of food web interactions and evolution. <i>Science</i> , 2009 , 323, 1347-50	33.3	167
198	Molecular phylogeny of the Homoptera: a paraphyletic taxon. <i>Journal of Molecular Evolution</i> , 1995 , 41, 211-23	3.1	166
197	Diverse phage-encoded toxins in a protective insect endosymbiont. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 6782-91	4.8	165
196	Genomic signatures of ancient asexual lineages. <i>Biological Journal of the Linnean Society</i> , 2003 , 79, 69-84	1.9	162
195	Immune system stimulation by the native gut microbiota of honey bees. <i>Royal Society Open Science</i> , 2017 , 4, 170003	3.3	158
194	Heritable endosymbionts of <i>Drosophila</i> . <i>Genetics</i> , 2006 , 174, 363-76	4	155
193	Evidence for genetic drift in endosymbionts (<i>Buchnera</i>): analyses of protein-coding genes. <i>Molecular Biology and Evolution</i> , 1999 , 16, 83-97	8.3	154
192	Massive genomic decay in <i>Serratia symbiotica</i> , a recently evolved symbiont of aphids. <i>Genome Biology and Evolution</i> , 2011 , 3, 195-208	3.9	153
191	The Evolution of Host-Plant Alternation in Aphids: Evidence for Specialization as a Dead End. <i>American Naturalist</i> , 1988 , 132, 681-706	3.7	153
190	The role of the gut microbiome in health and disease of adult honey bee workers. <i>Current Opinion in Insect Science</i> , 2018 , 26, 97-104	5.1	152
189	Variation in gut microbial communities and its association with pathogen infection in wild bumble bees (<i>Bombus</i>). <i>ISME Journal</i> , 2014 , 8, 2369-79	11.9	146
188	The Bee Microbiome: Impact on Bee Health and Model for Evolution and Ecology of Host-Microbe Interactions. <i>MBio</i> , 2016 , 7, e02164-15	7.8	145

187	The evolutionary history of quorum-sensing systems in bacteria. <i>Molecular Biology and Evolution</i> , 2004 , 21, 903-13	8.3	142
186	Bacterial genes in the aphid genome: absence of functional gene transfer from Buchnera to its host. <i>PLoS Genetics</i> , 2010 , 6, e1000827	6	140
185	Tracing the evolution of gene loss in obligate bacterial symbionts. <i>Current Opinion in Microbiology</i> , 2003 , 6, 512-8	7.9	140
184	Type III secretion systems and the evolution of mutualistic endosymbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 12397-402	11.5	137
183	Arsenophonus, an emerging clade of intracellular symbionts with a broad host distribution. <i>BMC Microbiology</i> , 2009 , 9, 143	4.5	134
182	Interspecific Competition between Root-Feeding and Leaf-Galling Aphids Mediated by Host-Plant Resistance. <i>Ecology</i> , 1990 , 71, 1050-1058	4.6	134
181	Metabolism of Toxic Sugars by Strains of the Bee Gut Symbiont Gilliamella apicola. <i>MBio</i> , 2016 , 7,	7.8	122
180	Parallel histories of horizontal gene transfer facilitated extreme reduction of endosymbiont genomes in sap-feeding insects. <i>Molecular Biology and Evolution</i> , 2014 , 31, 857-71	8.3	122
179	Genome reduction and co-evolution between the primary and secondary bacterial symbionts of psyllids. <i>Molecular Biology and Evolution</i> , 2012 , 29, 3781-92	8.3	118
178	Co-cladogenesis spanning three phyla: leafhoppers (Insecta: Hemiptera: Cicadellidae) and their dual bacterial symbionts. <i>Molecular Ecology</i> , 2006 , 15, 4175-91	5.7	118
177	How nutritionally imbalanced is phloem sap for aphids?. <i>Entomologia Experimentalis Et Applicata</i> , 1999 , 91, 203-210	2.1	118
176	A genomic perspective on nutrient provisioning by bacterial symbionts of insects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100 Suppl 2, 14543-8	11.5	117
175	Molecular data support a rapid radiation of aphids in the Cretaceous and multiple origins of host alternation. <i>Biological Journal of the Linnean Society</i> , 2000 , 71, 689-717	1.9	116
174	Long-term exposure to antibiotics has caused accumulation of resistance determinants in the gut microbiota of honeybees. <i>MBio</i> , 2012 , 3,	7.8	115
173	The eubacterial endosymbionts of whiteflies (homoptera: Aleyrodoidea) constitute a lineage distinct from the endosymbionts of aphids and mealybugs. <i>Current Microbiology</i> , 1992 , 25, 119-123	2.4	115
172	Endosymbiotic bacteria as a source of carotenoids in whiteflies. <i>Biology Letters</i> , 2012 , 8, 986-9	3.6	113
171	Early gut colonizers shape parasite susceptibility and microbiota composition in honey bee workers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9345-50	11.5	113
170	Genomics of the honey bee microbiome. <i>Current Opinion in Insect Science</i> , 2015 , 10, 22-28	5.1	111

169	Evolutionary replacement of obligate symbionts in an ancient and diverse insect lineage. <i>Environmental Microbiology</i> , 2013 , 15, 2073-81	5.2	111
168	Horizontal transfer of bacterial symbionts: heritability and fitness effects in a novel aphid host. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 7987-94	4.8	109
167	Evolutionary genetics of a defensive facultative symbiont of insects: exchange of toxin-encoding bacteriophage. <i>Molecular Ecology</i> , 2008 , 17, 916-29	5.7	106
166	Intraspecific variation in symbiont genomes: bottlenecks and the aphid-buchnera association. <i>Genetics</i> , 2001 , 157, 477-89	4	105
165	Consequences of reductive evolution for gene expression in an obligate endosymbiont. <i>Molecular Microbiology</i> , 2003 , 48, 1491-500	4.1	104
164	Accumulation of Deleterious Mutations in Endosymbionts: Muller's Ratchet with Two Levels of Selection. <i>American Naturalist</i> , 2000 , 156, 425-441	3.7	103
163	Hidden diversity in honey bee gut symbionts detected by single-cell genomics. <i>PLoS Genetics</i> , 2014 , 10, e1004596	6	102
162	Effects of facultative symbionts and heat stress on the metabolome of pea aphids. <i>ISME Journal</i> , 2010 , 4, 242-52	11.9	101
161	Regulation of transcription in a reduced bacterial genome: nutrient-provisioning genes of the obligate symbiont <i>Buchnera aphidicola</i> . <i>Journal of Bacteriology</i> , 2005 , 187, 4229-37	3.5	100
160	Deleterious mutations destabilize ribosomal RNA in endosymbiotic bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 4458-62	11.5	98
159	Intracellular symbionts of sharpshooters (Insecta: Hemiptera: Cicadellinae) form a distinct clade with a small genome. <i>Environmental Microbiology</i> , 2003 , 5, 116-26	5.2	97
158	The Evolution and Genetics of Aphid Endosymbionts. <i>BioScience</i> , 1997 , 47, 12-20	5.7	95
157	Intraspecific phylogenetic congruence among multiple symbiont genomes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000 , 267, 2517-21	4.4	93
156	Multiple introductions of the <i>Spiroplasma</i> bacterial endosymbiont into <i>Drosophila</i> . <i>Molecular Ecology</i> , 2009 , 18, 1294-305	5.7	87
155	Intraspecific variability in herbivore performance and host quality: a field study of <i>Uroleucon caligatum</i> (Homoptera: Aphididae) and its <i>Solidago</i> hosts (Asteraceae). <i>Ecological Entomology</i> , 1981 , 6, 301-306	2.1	86
154	Independent studies using deep sequencing resolve the same set of core bacterial species dominating gut communities of honey bees. <i>PLoS ONE</i> , 2012 , 7, e41250	3.7	86
153	Secondary endosymbionts of psyllids have been acquired multiple times. <i>Current Microbiology</i> , 2000 , 41, 300-4	2.4	85
152	Honey bees as models for gut microbiota research. <i>Lab Animal</i> , 2018 , 47, 317-325	0.4	85

151	Genetic conflict and conditional altruism in social aphid colonies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 12068-71	11.5	84
150	Faster evolutionary rates in endosymbiotic bacteria than in cospeciating insect hosts. <i>Journal of Molecular Evolution</i> , 1995 , 41, 727-731	3.1	83
149	Engineered symbionts activate honey bee immunity and limit pathogens. <i>Science</i> , 2020 , 367, 573-576	33.3	81
148	Experimental replacement of an obligate insect symbiont. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2093-6	11.5	80
147	Post-Pleistocene radiation of the pea aphid complex revealed by rapidly evolving endosymbionts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 16315-20	11.5	80
146	Loss of DNA recombinational repair enzymes in the initial stages of genome degeneration. <i>Molecular Biology and Evolution</i> , 2003 , 20, 1188-94	8.3	80
145	Division of labor in honey bee gut microbiota for plant polysaccharide digestion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 25909-25916	11.5	80
144	Swapping symbionts in spittlebugs: evolutionary replacement of a reduced genome symbiont. <i>ISME Journal</i> , 2014 , 8, 1237-46	11.9	79
143	Frischella perrara gen. nov., sp. nov., a gammaproteobacterium isolated from the gut of the honeybee, <i>Apis mellifera</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013 , 63, 3646-3651	2.2	73
142	Evolution and diversity of facultative symbionts from the aphid subfamily Lachninae. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 5328-35	4.8	73
141	Genomic basis of endosymbiont-conferred protection against an insect parasitoid. <i>Genome Research</i> , 2012 , 22, 106-14	9.7	73
140	Phylogenetics and evolution of the aphid genus <i>Uroleucon</i> based on mitochondrial and nuclear DNA sequences. <i>Systematic Entomology</i> , 1999 , 24, 85-93	3.4	73
139	Evolutionary and ecological consequences of gut microbial communities. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2019 , 50, 451-475	13.5	72
138	Reconstructing the phylogeny of aphids (Hemiptera: Aphididae) using DNA of the obligate symbiont <i>Buchnera aphidicola</i> . <i>Molecular Phylogenetics and Evolution</i> , 2013 , 68, 42-54	4.1	71
137	Genome-wide screen identifies host colonization determinants in a bacterial gut symbiont. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13887-13892	11.5	70
136	Functional and evolutionary insights into the simple yet specific gut microbiota of the honey bee from metagenomic analysis. <i>Gut Microbes</i> , 2013 , 4, 60-5	8.8	70
135	Feeding damage by <i>Diuraphis noxia</i> results in a nutritionally enhanced phloem diet. <i>Entomologia Experimentalis Et Applicata</i> , 1999 , 91, 403-412	2.1	67
134	Phylogenetic relationships of the endosymbionts of mealybugs (Homoptera: Pseudococcidae) based on 16S rDNA sequences. <i>Molecular Phylogenetics and Evolution</i> , 1992 , 1, 26-30	4.1	66

133	The tryptophan biosynthetic pathway of aphid endosymbionts (Buchnera): genetics and evolution of plasmid-associated anthranilate synthase (trpEG) within the aphididae. <i>Journal of Molecular Evolution</i> , 1996 , 42, 414-21	3.1	65
132	Functional genomics of Buchnera and the ecology of aphid hosts. <i>Molecular Ecology</i> , 2006 , 15, 1251-61	5.7	63
131	The Bacterium <i>Frischella perrara</i> Causes Scab Formation in the Gut of its Honeybee Host. <i>MBio</i> , 2015 , 6, e00193-15	7.8	62
130	Standard methods for research on <i>Apis mellifera</i> gut symbionts. <i>Journal of Apicultural Research</i> , 2013 , 52, 1-24	2	62
129	Dynamics of genome evolution in facultative symbionts of aphids. <i>Environmental Microbiology</i> , 2010 , 12, 2060-9	5.2	62
128	Non-cultivable microorganisms from symbiotic associations of insects and other hosts. <i>Antonie Van Leeuwenhoek</i> , 1997 , 72, 39-48	2.1	62
127	Diversification of Type VI Secretion System Toxins Reveals Ancient Antagonism among Bee Gut Microbes. <i>MBio</i> , 2017 , 8,	7.8	61
126	A 48-million-year-old aphid--host plant association and complex life cycle: biogeographic evidence. <i>Science</i> , 1989 , 245, 173-5	33.3	60
125	Diversification of genes for carotenoid biosynthesis in aphids following an ancient transfer from a fungus. <i>Molecular Biology and Evolution</i> , 2012 , 29, 313-23	8.3	59
124	EVOLUTIONARY REDUCTION OF COMPLEX LIFE CYCLES: LOSS OF HOST-ALTERNATION IN PEMPHIGUS (HOMOPTERA: APHIDIDAE). <i>Evolution; International Journal of Organic Evolution</i> , 1988 , 42, 717-728	3.8	59
123	Antibiotics reduce genetic diversity of core species in the honeybee gut microbiome. <i>Molecular Ecology</i> , 2018 , 27, 2057-2066	5.7	57
122	Decoupling of genome size and sequence divergence in a symbiotic bacterium. <i>Journal of Bacteriology</i> , 2000 , 182, 3867-9	3.5	55
121	Evolution of host specialization in gut microbes: the bee gut as a model. <i>Gut Microbes</i> , 2015 , 6, 214-20	8.8	54
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119	A dual-genome microarray for the pea aphid, <i>Acyrtosiphon pisum</i> , and its obligate bacterial symbiont, <i>Buchnera aphidicola</i> . <i>BMC Genomics</i> , 2006 , 7, 50	4.5	53
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