

Hopi E Hoekstra

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99
papers

12,246
citations

45
h-index

110
g-index

127
ext. papers

14,730
ext. citations

11.7
avg, IF

6.64
L-index

#	Paper	IF	Citations
99	Double digest RADseq: an inexpensive method for de novo SNP discovery and genotyping in model and non-model species. <i>PLoS ONE</i> , 2012 , 7, e37135	3.7	1857
98	The strength of phenotypic selection in natural populations. <i>American Naturalist</i> , 2001 , 157, 245-61	3.7	1482
97	The locus of evolution: evo devo and the genetics of adaptation. <i>Evolution; International Journal of Organic Evolution</i> , 2007 , 61, 995-1016	3.8	690
96	Does evolutionary theory need a rethink?. <i>Nature</i> , 2014 , 514, 161-4	50.4	530
95	A single amino acid mutation contributes to adaptive beach mouse color pattern. <i>Science</i> , 2006 , 313, 101-4	33.3	525
94	Combining population genomics and quantitative genetics: finding the genes underlying ecologically important traits. <i>Heredity</i> , 2008 , 100, 158-70	3.6	457
93	Genetics, development and evolution of adaptive pigmentation in vertebrates. <i>Heredity</i> , 2006 , 97, 222-34.6	3.6	413
92	The genetic basis of adaptive melanism in pocket mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 5268-73	11.5	393
91	Molecular spandrels: tests of adaptation at the genetic level. <i>Nature Reviews Genetics</i> , 2011 , 12, 767-80	30.1	371
90	Strength and tempo of directional selection in the wild. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 9157-60	11.5	347
89	Vertebrate pigmentation: from underlying genes to adaptive function. <i>Trends in Genetics</i> , 2010 , 26, 231-8.5	8.5	275
88	Adaptive variation in beach mice produced by two interacting pigmentation genes. <i>PLoS Biology</i> , 2007 , 5, e219	9.7	233
87	Convergence in pigmentation at multiple levels: mutations, genes and function. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010 , 365, 2439-50	5.8	221
86	Adaptive evolution of multiple traits through multiple mutations at a single gene. <i>Science</i> , 2013 , 339, 1312-6	33.3	212
85	Molecular and functional basis of phenotypic convergence in white lizards at White Sands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 2113-7	11.5	200
84	On the origin and spread of an adaptive allele in deer mice. <i>Science</i> , 2009 , 325, 1095-8	33.3	194
83	Ecological genetics of adaptive color polymorphism in pocket mice: geographic variation in selected and neutral genes. <i>Evolution; International Journal of Organic Evolution</i> , 2004 , 58, 1329-41	3.8	191

82	Adaptive reptile color variation and the evolution of the Mc1r gene. <i>Evolution; International Journal of Organic Evolution</i> , 2004 , 58, 1794-808	3.8	178
81	Different genes underlie adaptive melanism in different populations of rock pocket mice. <i>Molecular Ecology</i> , 2003 , 12, 1185-94	5.7	161
80	The developmental role of Agouti in color pattern evolution. <i>Science</i> , 2011 , 331, 1062-5	33.3	157
79	Discrete genetic modules are responsible for complex burrow evolution in <i>Peromyscus</i> mice. <i>Nature</i> , 2013 , 493, 402-5	50.4	148
78	Natural selection along an environmental gradient: a classic cline in mouse pigmentation. <i>Evolution; International Journal of Organic Evolution</i> , 2008 , 62, 1555-70	3.8	129
77	Loss of schooling behavior in cavefish through sight-dependent and sight-independent mechanisms. <i>Current Biology</i> , 2013 , 23, 1874-83	6.3	122
76	The genetic basis of parental care evolution in monogamous mice. <i>Nature</i> , 2017 , 544, 434-439	50.4	121
75	The genetic basis of phenotypic convergence in beach mice: similar pigment patterns but different genes. <i>Molecular Biology and Evolution</i> , 2009 , 26, 35-45	8.3	119
74	The selective advantage of crypsis in mice. <i>Evolution; International Journal of Organic Evolution</i> , 2010 , 64, 2153-8	3.8	116
73	<i>Peromyscus</i> mice as a model for studying natural variation. <i>ELife</i> , 2015 , 4,	8.9	101
72	Competition drives cooperation among closely related sperm of deer mice. <i>Nature</i> , 2010 , 463, 801-3	50.4	96
71	Unraveling the thread of nature's tapestry: the genetics of diversity and convergence in animal pigmentation. <i>Pigment Cell and Melanoma Research</i> , 2012 , 25, 411-33	4.5	95
70	Local adaptation in the rock pocket mouse (<i>Chaetodipus intermedius</i>): natural selection and phylogenetic history of populations. <i>Heredity</i> , 2005 , 94, 217-28	3.6	94
69	Evolutionary biology for the 21st century. <i>PLoS Biology</i> , 2013 , 11, e1001466	9.7	93
68	Are we there yet? Tracking the development of new model systems. <i>Trends in Genetics</i> , 2008 , 24, 353-608.5		92
67	Causes and consequences of the evolution of reproductive proteins. <i>International Journal of Developmental Biology</i> , 2008 , 52, 769-80	1.9	88
66	A Family of non-GPCR Chemosensors Defines an Alternative Logic for Mammalian Olfaction. <i>Cell</i> , 2016 , 165, 1734-1748	56.2	83
65	Melanism in <i>peromyscus</i> is caused by independent mutations in agouti. <i>PLoS ONE</i> , 2009 , 4, e6435	3.7	80

64	Monogamy evolves through multiple mechanisms: evidence from V1aR in deer mice. <i>Molecular Biology and Evolution</i> , 2010 , 27, 1269-78	8.3	79
63	Linking a mutation to survival in wild mice. <i>Science</i> , 2019 , 363, 499-504	33.3	76
62	The Evolving Neural and Genetic Architecture of Vertebrate Olfaction. <i>Current Biology</i> , 2016 , 26, R1039-R1049	8.3	68
61	Developmental mechanisms of stripe patterns in rodents. <i>Nature</i> , 2016 , 539, 518-523	50.4	66
60	Adaptive evolution of fertilization proteins within a genus: variation in ZP2 and ZP3 in deer mice (<i>Peromyscus</i>). <i>Molecular Biology and Evolution</i> , 2006 , 23, 1656-69	8.3	62
59	MHC class II pseudogene and genomic signature of a 32-kb cosmid in the house finch (<i>Carpodacus mexicanus</i>). <i>Genome Research</i> , 2000 , 10, 613-23	9.7	60
58	The draft genome of a socially polymorphic halictid bee, <i>Lasioglossum albipes</i> . <i>Genome Biology</i> , 2013 , 14, R142	18.3	58
57	Adaptive basis of geographic variation: genetic, phenotypic and environmental differences among beach mouse populations. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 3809-18	4.4	56
56	Evidence of adaptation from ancestral variation in young populations of beach mice. <i>Evolution; International Journal of Organic Evolution</i> , 2012 , 66, 3209-23	3.8	50
55	Comparative analysis of testis protein evolution in rodents. <i>Genetics</i> , 2008 , 179, 2075-89	4	50
54	Convergent evolution of novel protein function in shrew and lizard venom. <i>Current Biology</i> , 2009 , 19, 1925-31	6.3	45
53	Expression and conservation of processed copies of the RBMX gene. <i>Mammalian Genome</i> , 2001 , 12, 538-45	3.5	44
52	The Evolutionary History of Nebraska Deer Mice: Local Adaptation in the Face of Strong Gene Flow. <i>Molecular Biology and Evolution</i> , 2018 , 35, 792-806	8.3	43
51	The dynamics of sperm cooperation in a competitive environment. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281,	4.4	39
50	A collection of non-human primate computed tomography scans housed in MorphoSource, a repository for 3D data. <i>Scientific Data</i> , 2016 , 3, 160001	8.2	37
49	The evolution of burrowing behaviour in deer mice (genus <i>Peromyscus</i>). <i>Animal Behaviour</i> , 2009 , 77, 603-609	2.8	37
48	Measuring natural selection on genotypes and phenotypes in the wild. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2009 , 74, 155-68	3.9	37
47	Maternal-fetal conflict: rapidly evolving proteins in the rodent placenta. <i>Molecular Biology and Evolution</i> , 2010 , 27, 1221-5	8.3	36

46	The genetic basis of a social polymorphism in halictid bees. <i>Nature Communications</i> , 2018 , 9, 4338	17.4	35
45	Signatures of reproductive isolation in patterns of single nucleotide diversity across inbred strains of mice. <i>Genetics</i> , 2005 , 171, 1905-16	4	32
44	On the prospect of identifying adaptive loci in recently bottlenecked populations. <i>PLoS ONE</i> , 2014 , 9, e110579	3.7	31
43	Multiple origins of XY female mice (genus <i>Akodon</i>): phylogenetic and chromosomal evidence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000 , 267, 1825-31	4.4	28
42	The role of isoforms in the evolution of cryptic coloration in <i>Peromyscus</i> mice. <i>Molecular Ecology</i> , 2017 , 26, 245-258	5.7	26
41	Coevolution of Genome Architecture and Social Behavior. <i>Trends in Ecology and Evolution</i> , 2019 , 34, 844-855	8.5	25
40	<i>Peromyscus</i> burrowing: A model system for behavioral evolution. <i>Seminars in Cell and Developmental Biology</i> , 2017 , 61, 107-114	7.5	25
39	Evolution. Parallel evolution is in the genes. <i>Science</i> , 2004 , 303, 1779-81	33.3	25
38	The Tug1 lncRNA locus is essential for male fertility. <i>Genome Biology</i> , 2020 , 21, 237	18.3	24
37	Rodents. <i>Current Biology</i> , 2008 , 18, R406-R410	6.3	23
36	Sixty polymorphic microsatellite markers for the oldfield mouse developed in <i>Peromyscus polionotus</i> and <i>Peromyscus maniculatus</i> . <i>Molecular Ecology Notes</i> , 2006 , 6, 36-40		23
35	An unusual sex-determination system in South American field mice (Genus <i>Akodon</i>): the role of mutation, selection, and meiotic drive in maintaining XY females. <i>Evolution; International Journal of Organic Evolution</i> , 2001 , 55, 190-7	3.8	23
34	Expanding evolutionary neuroscience: insights from comparing variation in behavior. <i>Neuron</i> , 2021 , 109, 1084-1099	13.9	23
33	The genetic basis and fitness consequences of sperm midpiece size in deer mice. <i>Nature Communications</i> , 2016 , 7, 13652	17.4	23
32	ECOLOGICAL GENETICS OF ADAPTIVE COLOR POLYMORPHISM IN POCKET MICE: GEOGRAPHIC VARIATION IN SELECTED AND NEUTRAL GENES. <i>Evolution; International Journal of Organic Evolution</i> , 2004 , 58, 1329	3.8	20
31	Evolution and Genetics of Precocious Burrowing Behavior in <i>Peromyscus</i> Mice. <i>Current Biology</i> , 2017 , 27, 3837-3845.e3	6.3	19
30	Empowering 21st Century Biology. <i>BioScience</i> , 2010 , 60, 923-930	5.7	19
29	Body size, dispersal ability and compositional disharmony: the carnivore-dominated fauna of the Kuril Islands. <i>Diversity and Distributions</i> , 1998 , 4, 135-149	5	19

28	Reproductive protein evolution within and between species: maintenance of divergent ZP3 alleles in <i>Peromyscus</i> . <i>Molecular Ecology</i> , 2008 , 17, 2616-28	5.7	18
27	Population structure and plumage polymorphism: The intraspecific evolutionary relationships of a polymorphic raptor, <i>Buteo jamaicensis harlani</i> . <i>BMC Evolutionary Biology</i> , 2010 , 10, 224	3	17
26	The Study of Adaptation and Speciation in the Genomic Era. <i>Journal of Mammalogy</i> , 2007 , 88, 1-4	1.8	16
25	Five Hundred Microsatellite Loci for <i>Peromyscus</i> . <i>Conservation Genetics</i> , 2010 , 11, 1243-1246	2.6	13
24	The genetics of morphological and behavioural island traits in deer mice. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20191697	4.4	12
23	The ultimate and proximate mechanisms driving the evolution of long tails in forest deer mice. <i>Evolution; International Journal of Organic Evolution</i> , 2017 , 71, 261-273	3.8	11
22	ADAPTIVE REPTILE COLOR VARIATION AND THE EVOLUTION OF THE MC1R GENE. <i>Evolution; International Journal of Organic Evolution</i> , 2004 , 58, 1794	3.8	9
21	The evolution of nesting behaviour in <i>Peromyscus</i> mice. <i>Animal Behaviour</i> , 2018 , 139, 103-115	2.8	8
20	Evolution of protein expression: new genes for a new diet. <i>Current Biology</i> , 2007 , 17, R1014-6	6.3	8
19	Sexual imprinting and speciation between two <i>Peromyscus</i> species. <i>Evolution; International Journal of Organic Evolution</i> , 2018 , 72, 274-287	3.8	6
18	African striped mice. <i>Current Biology</i> , 2018 , 28, R299-R301	6.3	6
17	Sibling rivalry: Males with more brothers develop larger testes. <i>Ecology and Evolution</i> , 2018 , 8, 8197-8203	3.8	6
16	Direct Gamete Sequencing Reveals No Evidence for Segregation Distortion in House Mouse Hybrids. <i>PLoS ONE</i> , 2015 , 10, e0131933	3.7	6
15	<i>Mus spicilegus</i> . <i>Current Biology</i> , 2012 , 22, R858-9	6.3	6
14	Striking coat colour variation in tuco-tucos (Rodentia: Ctenomyidae): a role for the melanocortin-1 receptor?. <i>Biological Journal of the Linnean Society</i> , 2012 , 105, 665-680	1.9	6
13	A chromosomal inversion drives evolution of multiple adaptive traits in deer mice		5
12	The secret of a natural blond. <i>Nature Genetics</i> , 2014 , 46, 660-1	36.3	4
11	Unequal transmission of mitochondrial haplotypes in natural populations of field mice with XY females (genus <i>Akodon</i>). <i>American Naturalist</i> , 2003 , 161, 29-39	3.7	4

10	The Tug1 Locus is Essential for Male Fertility		3
9	Divergent genetic mechanism leads to spiny hair in rodents. <i>PLoS ONE</i> , 2018 , 13, e0202219	3.7	3
8	Ecological Genetics: A Key Gene for Mimicry and Melanism. <i>Current Biology</i> , 2016 , 26, R802-4	6.3	2
7	AN UNUSUAL SEX-DETERMINATION SYSTEM IN SOUTH AMERICAN FIELD MICE (GENUS AKODON): THE ROLE OF MUTATION, SELECTION, AND MEIOTIC DRIVE IN MAINTAINING XY FEMALES. <i>Evolution; International Journal of Organic Evolution</i> , 2001 , 55, 190	3.8	2
6	Tail Length Evolution in Deer Mice: Linking Morphology, Behavior, and Function. <i>Integrative and Comparative Biology</i> , 2021 , 61, 385-397	2.8	2
5	Fishing for the genetic basis of migratory behavior. <i>Cell</i> , 2021 , 184, 303-305	56.2	2
4	The evolutionary history of Nebraska deer mice: local adaptation in the face of strong gene flow		1
3	Developmental genetics in emerging rodent models: case studies and perspectives. <i>Current Opinion in Genetics and Development</i> , 2016 , 39, 182-186	4.9	1
2	cis-Regulatory changes in locomotor genes are associated with the evolution of burrowing behavior.. <i>Cell Reports</i> , 2022 , 38, 110360	10.6	1
1	Diet-based assortative mating through sexual imprinting. <i>Ecology and Evolution</i> , 2019 , 9, 12045-12050	2.8	0