

# Diethard Tautz

## List of Publications by Citations

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209  
papers

23,224  
citations

64  
h-index

151  
g-index

229  
ext. papers

25,685  
ext. citations

10.1  
avg, IF

7.05  
L-index

#	Paper	IF	Citations
209	A non-radioactive in situ hybridization method for the localization of specific RNAs in <i>Drosophila</i> embryos reveals translational control of the segmentation gene hunchback. <i>Chromosoma</i> , <b>1989</b> , 98, 81-5 <sup>2.8</sup>		2445
208	Hypervariability of simple sequences as a general source for polymorphic DNA markers. <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 6463-71	20.1	1692
207	Animals in a bacterial world, a new imperative for the life sciences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 3229-36	11.5	1488
206	The genome of the model beetle and pest <i>Tribolium castaneum</i> . <i>Nature</i> , <b>2008</b> , 452, 949-55	50.4	1043
205	Simple sequences are ubiquitous repetitive components of eukaryotic genomes. <i>Nucleic Acids Research</i> , <b>1984</b> , 12, 4127-38	20.1	1012
204	Slippage synthesis of simple sequence DNA. <i>Nucleic Acids Research</i> , <b>1992</b> , 20, 211-5	20.1	849
203	A plea for DNA taxonomy. <i>Trends in Ecology and Evolution</i> , <b>2003</b> , 18, 70-74	10.9	648
202	Cryptic simplicity in DNA is a major source of genetic variation. <i>Nature</i> , <b>1986</b> , 322, 652-6	50.4	558
201	An optimized freeze-squeeze method for the recovery of DNA fragments from agarose gels. <i>Analytical Biochemistry</i> , <b>1983</b> , 132, 14-9	3.1	511
200	The evolutionary origin of orphan genes. <i>Nature Reviews Genetics</i> , <b>2011</b> , 12, 692-702	30.1	461
199	A morphogenetic gradient of hunchback protein organizes the expression of the gap genes <i>Krüppel</i> and <i>knirps</i> in the early <i>Drosophila</i> embryo. <i>Nature</i> , <b>1990</b> , 346, 577-80	50.4	398
198	Finger protein of novel structure encoded by hunchback, a second member of the gap class of <i>Drosophila</i> segmentation genes. <i>Nature</i> , <b>1987</b> , 327, 383-389	50.4	392
197	Sympatric speciation suggested by monophyly of crater lake cichlids. <i>Nature</i> , <b>1994</b> , 368, 629-32	50.4	384
196	Ribosomal DNA phylogeny of the major extant arthropod classes and the evolution of myriapods. <i>Nature</i> , <b>1995</b> , 376, 165-7	50.4	315
195	Isolation of simple-sequence loci for use in polymerase chain reaction-based DNA fingerprinting. <i>Electrophoresis</i> , <b>1991</b> , 12, 113-8	3.6	311
194	Regulation of the <i>Drosophila</i> segmentation gene hunchback by two maternal morphogenetic centres. <i>Nature</i> , <b>1988</b> , 332, 281-4	50.4	301
193	Conservation of polymorphic simple sequence loci in cetacean species. <i>Nature</i> , <b>1991</b> , 354, 63-5	50.4	299

192	Social structure of pilot whales revealed by analytical DNA profiling. <i>Science</i> , <b>1993</b> , 260, 670-2	33.3	287
191	A phylogenetically based transcriptome age index mirrors ontogenetic divergence patterns. <i>Nature</i> , <b>2010</b> , 468, 815-8	50.4	275
190	Simple sequences. <i>Current Opinion in Genetics and Development</i> , <b>1994</b> , 4, 832-7	4.9	252
189	A phylostratigraphy approach to uncover the genomic history of major adaptations in metazoan lineages. <i>Trends in Genetics</i> , <b>2007</b> , 23, 533-9	8.5	242
188	An evaluation of LSU rDNA D1-D2 sequences for their use in species identification. <i>Frontiers in Zoology</i> , <b>2007</b> , 4, 6	2.8	241
187	Mitochondrial protein phylogeny joins myriapods with chelicerates. <i>Nature</i> , <b>2001</b> , 413, 154-7	50.4	228
186	Chromosomal homogeneity of <i>Drosophila</i> ribosomal DNA arrays suggests intrachromosomal exchanges drive concerted evolution. <i>Current Biology</i> , <b>1994</b> , 4, 777-83	6.3	215
185	Phylogenomic analysis reveals bees and wasps (Hymenoptera) at the base of the radiation of Holometabolous insects. <i>Genome Research</i> , <b>2006</b> , 16, 1334-8	9.7	204
184	Intracommunity relationships, dispersal pattern and paternity success in a wild living community of Bonobos ( <i>Pan paniscus</i> ) determined from DNA analysis of faecal samples. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>1999</b> , 266, 1189-95	4.4	181
183	An evolutionary analysis of orphan genes in <i>Drosophila</i> . <i>Genome Research</i> , <b>2003</b> , 13, 2213-9	9.7	176
182	Mitochondrial sequence analysis of <i>Salamandra</i> taxa suggests old splits of major lineages and postglacial recolonizations of central Europe from distinct source populations of <i>Salamandra salamandra</i> . <i>Molecular Ecology</i> , <b>2000</b> , 9, 397-410	5.7	174
181	Genetic and ecological divergence of a monophyletic cichlid species pair under fully sympatric conditions in Lake Ejagham, Cameroon. <i>Molecular Ecology</i> , <b>2001</b> , 10, 1471-88	5.7	172
180	In situ hybridization to RNA. <i>Methods in Cell Biology</i> , <b>1994</b> , 44, 575-98	1.8	171
179	Phylostratigraphic tracking of cancer genes suggests a link to the emergence of multicellularity in metazoa. <i>BMC Biology</i> , <b>2010</b> , 8, 66	7.3	169
178	Posterior segmentation of the <i>Drosophila</i> embryo in the absence of a maternal posterior organizer gene. <i>Nature</i> , <b>1989</b> , 338, 629-32	50.4	165
177	Understanding the onset of hybrid speciation. <i>Trends in Genetics</i> , <b>2010</b> , 26, 54-8	8.5	162
176	Redundancies, development and the flow of information. <i>BioEssays</i> , <b>1992</b> , 14, 263-6	4.1	160
175	Phylogenetic patterns of emergence of new genes support a model of frequent de novo evolution. <i>BMC Genomics</i> , <b>2013</b> , 14, 117	4.5	158

174	Minimal homology requirements for PCR primers. <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 6749	20.1	155
173	An invasive lineage of sculpins, <i>Cottus</i> sp. (Pisces, Teleostei) in the Rhine with new habitat adaptations has originated from hybridization between old phylogeographic groups. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2005</b> , 272, 2379-87	4.4	153
172	Evolution of transcriptional regulation. <i>Current Opinion in Genetics and Development</i> , <b>2000</b> , 10, 575-9	4.9	142
171	Involvement of an orthologue of the <i>Drosophila</i> pair-rule gene hairy in segment formation of the short germ-band embryo of <i>Tribolium</i> (Coleoptera). <i>Nature</i> , <b>1993</b> , 361, 448-50	50.4	142
170	Cross-regulatory interactions among the gap genes of <i>Drosophila</i> . <i>Nature</i> , <b>1986</b> , 324, 668-670	50.4	141
169	Emergence of a new gene from an intergenic region. <i>Current Biology</i> , <b>2009</b> , 19, 1527-31	6.3	137
168	An ancient evolutionary origin of genes associated with human genetic diseases. <i>Molecular Biology and Evolution</i> , <b>2008</b> , 25, 2699-707	8.3	133
167	DNA points the way ahead in taxonomy. <i>Nature</i> , <b>2002</b> , 418, 479	50.4	133
166	Reverse taxonomy: an approach towards determining the diversity of meiobenthic organisms based on ribosomal RNA signature sequences. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2005</b> , 360, 1917-24	5.8	130
165	Evolutionary divergence of promoters and spacers in the rDNA family of four <i>Drosophila</i> species. Implications for molecular coevolution in multigene families. <i>Journal of Molecular Biology</i> , <b>1987</b> , 195, 525-42	6.5	123
164	Nucleotide divergence vs. gene expression differentiation: comparative transcriptome sequencing in natural isolates from the carrion crow and its hybrid zone with the hooded crow. <i>Molecular Ecology</i> , <b>2010</b> , 19 Suppl 1, 162-75	5.7	114
163	A segmentation gene in <i>tribolium</i> produces a polycistronic mRNA that codes for multiple conserved peptides. <i>Cell</i> , <b>2006</b> , 126, 559-69	56.2	113
162	Segmentation. <i>Developmental Cell</i> , <b>2004</b> , 7, 301-12	10.2	110
161	Molecular technologies for biodiversity evaluation: opportunities and challenges. <i>Nature Biotechnology</i> , <b>1997</b> , 15, 625-8	44.5	108
160	Genome patterns of selection and introgression of haplotypes in natural populations of the house mouse ( <i>Mus musculus</i> ). <i>PLoS Genetics</i> , <b>2012</b> , 8, e1002891	6	105
159	Notes on the definition and nomenclature of tandemly repetitive DNA sequences. <i>Exs</i> , <b>1993</b> , 67, 21-8		98
158	Northern range expansion of European populations of the wasp spider <i>Argiope bruennichi</i> is associated with global warming-correlated genetic admixture and population-specific temperature adaptations. <i>Molecular Ecology</i> , <b>2013</b> , 22, 2232-48	5.7	92
157	Tests of rRNA hybridization to microarrays suggest that hybridization characteristics of oligonucleotide probes for species discrimination cannot be predicted. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, e66	20.1	91

156	The expression of the proximodistal axis patterning genes <i>Distal-less</i> and <i>dachshund</i> in the appendages of <i>Glomeris marginata</i> (Myriapoda: Diplopoda) suggests a special role of these genes in patterning the head appendages. <i>Developmental Biology</i> , <b>2003</b> , 260, 97-112	3.1	86
155	Evolution and phylogeny of the Diptera: a molecular phylogenetic analysis using 28S rDNA sequences. <i>Systematic Biology</i> , <b>1997</b> , 46, 674-98	8.4	85
154	An analysis of signatures of selective sweeps in natural populations of the house mouse. <i>Molecular Biology and Evolution</i> , <b>2006</b> , 23, 790-7	8.3	85
153	Polymorphism and locus-specific effects on polymorphism at microsatellite loci in natural <i>Drosophila melanogaster</i> populations. <i>Genetics</i> , <b>1997</b> , 146, 309-20	4	84
152	The root of the East African cichlid radiations. <i>BMC Evolutionary Biology</i> , <b>2009</b> , 9, 186	3	80
151	Anterior and posterior waves of cyclic <i>her1</i> gene expression are differentially regulated in the presomitic mesoderm of zebrafish. <i>Development (Cambridge)</i> , <b>2003</b> , 130, 4269-78	6.6	80
150	A Hox class 3 orthologue from the spider <i>Cupiennius salei</i> is expressed in a Hox-gene-like fashion. <i>Development Genes and Evolution</i> , <b>1998</b> , 208, 586-90	1.8	77
149	Neurogenesis in the spider <i>Cupiennius salei</i> . <i>Development (Cambridge)</i> , <b>2001</b> , 128, 2673-2688	6.6	77
148	Fast turnover of genome transcription across evolutionary time exposes entire non-coding DNA to de novo gene emergence. <i>ELife</i> , <b>2016</b> , 5, e09977	8.9	72
147	Genomic resources for wild populations of the house mouse, <i>Mus musculus</i> and its close relative <i>Mus spretus</i> . <i>Scientific Data</i> , <b>2016</b> , 3, 160075	8.2	67
146	Parallel selection mapping using artificially selected mice reveals body weight control loci. <i>Current Biology</i> , <b>2012</b> , 22, 794-800	6.3	64
145	House mouse colonization patterns on the sub-Antarctic Kerguelen Archipelago suggest singular primary invasions and resilience against re-invasion. <i>BMC Evolutionary Biology</i> , <b>2010</b> , 10, 325	3	63
144	The genetic population structure of the gray mouse lemur ( <i>Microcebus murinus</i> ), a basal primate from Madagascar. <i>Behavioral Ecology and Sociobiology</i> , <b>2002</b> , 52, 166-175	2.5	63
143	Tracing early stages of species differentiation: ecological, morphological and genetic divergence of Galápagos sea lion populations. <i>BMC Evolutionary Biology</i> , <b>2008</b> , 8, 150	3	61
142	Segmentation gene expression in the mothmidge <i>Clogmia albipunctata</i> (Diptera, psychodidae) and other primitive dipterans. <i>Development Genes and Evolution</i> , <b>1999</b> , 209, 145-54	1.8	59
141	Tracing the first step to speciation: ecological and genetic differentiation of a salamander population in a small forest. <i>Molecular Ecology</i> , <b>2007</b> , 16, 4550-61	5.7	58
140	Adaptive divergence vs. environmental plasticity: tracing local genetic adaptation of metamorphosis traits in salamanders. <i>Molecular Ecology</i> , <b>2004</b> , 13, 1665-77	5.7	57
139	Two orthodenticle-related genes in the short-germ beetle <i>Tribolium castaneum</i> . <i>Development Genes and Evolution</i> , <b>1996</b> , 206, 35-45	1.8	57

138	Contrasting evolution of expression differences in the testis between species and subspecies of the house mouse. <i>Genome Research</i> , <b>2007</b> , 17, 42-9	9.7	56
137	Divergence patterns of genic copy number variation in natural populations of the house mouse ( <i>Mus musculus domesticus</i> ) reveal three conserved genes with major population-specific expansions. <i>Genome Research</i> , <b>2015</b> , 25, 1114-24	9.7	55
136	Genomic networks of hybrid sterility. <i>PLoS Genetics</i> , <b>2014</b> , 10, e1004162	6	55
135	Zebrafish <i>zic1</i> expression in brain and somites is affected by BMP and hedgehog signalling. <i>Mechanisms of Development</i> , <b>1999</b> , 85, 147-59	1.7	55
134	The hidden matrilineal structure of a solitary lemur: implications for primate social evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2002</b> , 269, 1755-63	4.4	54
133	Random sequences are an abundant source of bioactive RNAs or peptides. <i>Nature Ecology and Evolution</i> , <b>2017</b> , 1, 0217	12.3	53
132	Rapid formation of distinct hybrid lineages after secondary contact of two fish species ( <i>Cottus</i> sp.). <i>Molecular Ecology</i> , <b>2011</b> , 20, 1475-91	5.7	53
131	Oligonucleotide microarrays: widely applied--poorly understood. <i>Briefings in Functional Genomics &amp; Proteomics</i> , <b>2007</b> , 6, 141-8		52
130	No Evidence for Phylostratigraphic Bias Impacting Inferences on Patterns of Gene Emergence and Evolution. <i>Molecular Biology and Evolution</i> , <b>2017</b> , 34, 843-856	8.3	51
129	Molecular phylogenetics at the Felsenstein zone: approaching the Strepsiptera problem using 5.8S and 28S rDNA sequences. <i>Molecular Phylogenetics and Evolution</i> , <b>1998</b> , 9, 470-80	4.1	50
128	WHAT WE HAVE ALSO LEARNED: ADAPTIVE SPECIATION IS THEORETICALLY PLAUSIBLE. <i>Evolution; International Journal of Organic Evolution</i> , <b>2005</b> , 59, 691-695	3.8	50
127	Simple DNA sequences of <i>Drosophila virilis</i> isolated by screening with RNA. <i>Journal of Molecular Biology</i> , <b>1984</b> , 172, 229-35	6.5	49
126	A role for ultrasonic vocalisation in social communication and divergence of natural populations of the house mouse ( <i>Mus musculus domesticus</i> ). <i>PLoS ONE</i> , <b>2014</b> , 9, e97244	3.7	49
125	Sperm usage in honey bees. <i>Behavioral Ecology and Sociobiology</i> , <b>1998</b> , 42, 247-255	2.5	48
124	Delimiting the conserved features of hunchback function for the trunk organization of insects. <i>Development (Cambridge)</i> , <b>2008</b> , 135, 881-8	6.6	48
123	The role of Suppressor of Hairless in Notch mediated signalling during zebrafish somitogenesis. <i>Mechanisms of Development</i> , <b>2003</b> , 120, 1083-94	1.7	47
122	Evolution of segmentation genes in insects. <i>Trends in Genetics</i> , <b>1995</b> , 11, 23-7	8.5	47
121	Tracing the dynamics of gene transcripts after organismal death. <i>Open Biology</i> , <b>2017</b> , 7,	7	46

120	Galapagos and Californian sea lions are separate species: Genetic analysis of the genus <i>Zalophus</i> and its implications for conservation management. <i>Frontiers in Zoology</i> , <b>2007</b> , 4, 20	2.8	46
119	Homologues of c-hairy1 (her9) and lunatic fringe in zebrafish are expressed in the developing central nervous system, but not in the presomitic mesoderm. <i>Development Genes and Evolution</i> , <b>2001</b> , 211, 493-500	1.8	46
118	What we have also learned: adaptive speciation is theoretically plausible. <i>Evolution; International Journal of Organic Evolution</i> , <b>2005</b> , 59, 691-5; discussion 696-9	3.8	46
117	Physico-chemical foundations underpinning microarray and next-generation sequencing experiments. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 2779-96	20.1	45
116	Mapping of Craniofacial Traits in Outbred Mice Identifies Major Developmental Genes Involved in Shape Determination. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005607	6	45
115	Identification of selective sweeps in closely related populations of the house mouse based on microsatellite scans. <i>Genetics</i> , <b>2008</b> , 180, 1537-45	4	45
114	A genetic uncertainty problem. <i>Trends in Genetics</i> , <b>2000</b> , 16, 475-7	8.5	45
113	Regulatory and coding regions of the segmentation gene hunchback are functionally conserved between <i>Drosophila virilis</i> and <i>Drosophila melanogaster</i> . <i>Mechanisms of Development</i> , <b>1994</b> , 45, 105-15	1.7	45
112	Genome-wide acceleration of protein evolution in flies (Diptera). <i>BMC Evolutionary Biology</i> , <b>2006</b> , 6, 7	3	44
111	The role of the segmentation gene hairy in <i>Tribolium</i> . <i>Development Genes and Evolution</i> , <b>2008</b> , 218, 465-78	7.8	43
110	Correlated evolution of synonymous and nonsynonymous sites in <i>Drosophila</i> . <i>Journal of Molecular Evolution</i> , <b>2004</b> , 59, 771-9	3.1	43
109	Use of a natural hybrid zone for genomewide association mapping of craniofacial traits in the house mouse. <i>Molecular Ecology</i> , <b>2014</b> , 23, 5756-70	5.7	41
108	Eco-genomic analysis of the poleward range expansion of the wasp spider <i>Argiope bruennichi</i> shows rapid adaptation and genomic admixture. <i>Global Change Biology</i> , <b>2015</b> , 21, 4320-32	11.4	41
107	Evolution: dynamics of de novo gene emergence. <i>Current Biology</i> , <b>2014</b> , 24, R238-40	6.3	41
106	Transcription of the tandem array of ribosomal DNA in <i>Drosophila melanogaster</i> does not terminate at any fixed point. <i>EMBO Journal</i> , <b>1986</b> , 5, 1267-1273	13	41
105	Isolation and characterization of polymorphic tetranucleotide microsatellite loci in the Fire salamander <i>Salamandra salamandra</i> (Amphibia: Caudata). <i>Molecular Ecology Notes</i> , <b>2004</b> , 4, 626-628		39
104	Separable stripe enhancer elements for the pair-rule gene hairy in the beetle <i>Tribolium</i> . <i>EMBO Reports</i> , <b>2004</b> , 5, 638-42	6.5	39
103	Direct cloning of microsatellite loci from <i>Cottus gobio</i> through a simplified enrichment procedure. <i>Molecular Ecology Notes</i> , <b>2005</b> , 5, 628-636		38

102	The impact of stocking on the genetic integrity of Arctic charr ( <i>Salvelinus</i> ) populations from the Alpine region. <i>Molecular Ecology</i> , <b>2002</b> , 11, 1017-27	5.7	37
101	Abdominal-B expression in a spider suggests a general role for Abdominal-B in specifying the genital structure. <i>The Journal of Experimental Zoology</i> , <b>1999</b> , 285, 85-91		37
100	Expression patterns of twist and snail in <i>Tribolium</i> (Coleoptera) suggest a homologous formation of mesoderm in long and short germ band insects. <i>Genesis</i> , <b>1994</b> , 15, 32-7		37
99	her11 is involved in the somitogenesis clock in zebrafish. <i>Development Genes and Evolution</i> , <b>2004</b> , 214, 393-406	1.8	35
98	Elimination of EVE protein by CALI in the short germ band insect <i>Tribolium</i> suggests a conserved pair-rule function for even skipped. <i>Mechanisms of Development</i> , <b>1999</b> , 80, 191-5	1.7	35
97	Insect calcium channels. Molecular cloning of an alpha 1-subunit from housefly ( <i>Musca domestica</i> ) muscle. <i>FEBS Letters</i> , <b>1994</b> , 339, 189-94	3.8	34
96	Eurasian house mouse ( <i>Mus musculus</i> L.) differentiation at microsatellite loci identifies the Iranian plateau as a phylogeographic hotspot. <i>BMC Evolutionary Biology</i> , <b>2015</b> , 15, 26	3	33
95	An evaluation of the use of the LSU rRNA D1-D5 domain for DNA-based taxonomy of eukaryotic protists. <i>Protist</i> , <b>2010</b> , 161, 342-52	2.5	32
94	Neurogenesis in the spider: new insights from comparative analysis of morphological processes and gene expression patterns. <i>Arthropod Structure and Development</i> , <b>2003</b> , 32, 5-16	1.8	32
93	Insect embryogenesis – what is ancestral and what is derived?. <i>Development (Cambridge)</i> , <b>1994</b> , 1994, 193-199	6.6	32
92	Large number of replacement polymorphisms in rapidly evolving genes of <i>Drosophila</i> . Implications for genome-wide surveys of DNA polymorphism. <i>Genetics</i> , <b>1999</b> , 153, 1717-29	4	32
91	Evolution of dorsal-ventral axis formation in arthropod appendages: H15 and optomotor-blind/bifid-type T-box genes in the millipede <i>Glomeris marginata</i> (Myriapoda: Diplopoda). <i>Evolution &amp; Development</i> , <b>2005</b> , 7, 51-7	2.6	31
90	Exploring the effects of gene dosage on mandible shape in mice as a model for studying the genetic basis of natural variation. <i>Development Genes and Evolution</i> , <b>2013</b> , 223, 279-87	1.8	30
89	The discovery of de novo gene evolution. <i>Perspectives in Biology and Medicine</i> , <b>2014</b> , 57, 149-61	1.5	30
88	Prospero and Snail expression during spider neurogenesis. <i>Development Genes and Evolution</i> , <b>2003</b> , 213, 554-66	1.8	26
87	From genes to individuals: developmental genes and the generation of the phenotype. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>1998</b> , 353, 231-40	5.8	25
86	Copy number changes of CNV regions in intersubspecific crosses of the house mouse. <i>Molecular Biology and Evolution</i> , <b>2010</b> , 27, 1845-56	8.3	24
85	her1 and her13.2 are jointly required for somitic border specification along the entire axis of the fish embryo. <i>Developmental Biology</i> , <b>2006</b> , 293, 242-51	3.1	24



84	TINA manual landmarking tool: software for the precise digitization of 3D landmarks. <i>Frontiers in Zoology</i> , <b>2012</b> , 9, 6	2.8	23
83	Molecular phylogeny of the salamandrid genus <i>Neurergus</i> : evidence for an intrageneric switch of reproductive biology. <i>Amphibia - Reptilia</i> , <b>2002</b> , 23, 419-431	1.2	23
82	Micro-evolutionary divergence patterns of mandible shapes in wild house mouse ( <i>Mus musculus</i> ) populations. <i>BMC Evolutionary Biology</i> , <b>2011</b> , 11, 306	3	21
81	Semi-automatic landmark point annotation for geometric morphometrics. <i>Frontiers in Zoology</i> , <b>2014</b> , 11,	2.8	20
80	Paternal imprinting of mating preferences between natural populations of house mice ( <i>Mus musculus domesticus</i> ). <i>Molecular Ecology</i> , <b>2013</b> , 22, 2549-62	5.7	20
79	Selection on cis-regulatory variation at <i>B4galnt2</i> and its influence on von Willebrand factor in house mice. <i>Molecular Biology and Evolution</i> , <b>2009</b> , 26, 567-78	8.3	19
78	Development of new microsatellite loci and evaluation of loci from other pinniped species for the Galápagos sea lion ( <i>Zalophus californianus wollebaeki</i> ). <i>Conservation Genetics</i> , <b>2006</b> , 7, 461-465	2.6	19
77	Polycistronic peptide coding genes in eukaryotes--how widespread are they?. <i>Briefings in Functional Genomics &amp; Proteomics</i> , <b>2009</b> , 8, 68-74		18
76	An algorithm and program for finding sequence specific oligonucleotide probes for species identification. <i>BMC Bioinformatics</i> , <b>2002</b> , 3, 9	3.6	18
75	Chromophore-assisted laser inactivation of even skipped in <i>Drosophila</i> precisely phenocopies genetic loss of function. <i>Development Genes and Evolution</i> , <b>1996</b> , 206, 86-8	1.8	18
74	Craniofacial shape transition across the house mouse hybrid zone: implications for the genetic architecture and evolution of between-species differences. <i>Development Genes and Evolution</i> , <b>2016</b> , 226, 173-86	1.8	17
73	A comparative assessment of mandible shape in a consomic strain panel of the house mouse ( <i>Mus musculus</i> )--implications for epistasis and evolvability of quantitative traits. <i>BMC Evolutionary Biology</i> , <b>2011</b> , 11, 309	3	17
72	Genomic finger printing goes simple. <i>BioEssays</i> , <b>1990</b> , 12, 44-6	4.1	17
71	Low-level mitochondrial heteroplasmy modulates DNA replication, glucose metabolism and lifespan in mice. <i>Scientific Reports</i> , <b>2018</b> , 8, 5872	4.9	16
70	A revised design for microarray experiments to account for experimental noise and uncertainty of probe response. <i>PLoS ONE</i> , <b>2014</b> , 9, e91295	3.7	15
69	Characterization of spotted hyena, <i>Crocuta crocuta</i> microsatellite loci. <i>Molecular Ecology Notes</i> , <b>2003</b> , 3, 360-362		15
68	A de novo evolved gene in the house mouse regulates female pregnancy cycles. <i>ELife</i> , <b>2019</b> , 8,	8.9	15
67	Genetic differentiation of hypothalamus parentally biased transcripts in populations of the house mouse implicate the Prader-Willi syndrome imprinted region as a possible source of behavioral divergence. <i>Molecular Biology and Evolution</i> , <b>2014</b> , 31, 3240-9	8.3	14

66	A pooling approach to detect signatures of selective sweeps in genome scans using microsatellites. <i>Molecular Ecology Notes</i> , <b>2007</b> , 7, 400-403		14
65	Comparative molecular embryology of arthropods: the expression of Hox genes in the spider <i>Cupiennius salei</i> . <i>Invertebrate Reproduction and Development</i> , <b>1999</b> , 36, 203-209	0.7	13
64	A comparison of homologous developmental genes from <i>Drosophila</i> and <i>Tribolium</i> reveals major differences in length and trinucleotide repeat content. <i>Journal of Molecular Evolution</i> , <b>1999</b> , 49, 558-66	3.1	13
63	Molecular and phenotypic distinction of the very recently evolved insular subspecies <i>Mus musculus helgolandicus</i> ZIMMERMANN, 1953. <i>BMC Evolutionary Biology</i> , <b>2015</b> , 15, 160	3	12
62	Increased mitochondrial mutation frequency after an island colonization: positive selection or accumulation of slightly deleterious mutations?. <i>Biology Letters</i> , <b>2013</b> , 9, 20121123	3.6	12
61	Not just another genome. <i>BMC Biology</i> , <b>2011</b> , 9, 8	7.3	11
60	A test of the neutral model of expression change in natural populations of house mouse subspecies. <i>Evolution; International Journal of Organic Evolution</i> , <b>2010</b> , 64, 549-60	3.8	11
59	Evolution and Phylogeny of the Diptera: A Molecular Phylogenetic Analysis Using 28S rDNA Sequences		10
58	Simultaneous quantification of multiple nucleic acid targets in complex rRNA mixtures using high density microarrays and nonspecific hybridization as a source of information. <i>Journal of Microbiological Methods</i> , <b>2008</b> , 75, 92-102	2.8	9
57	Conservation of major nuclease S1-sensitive sites in the non-conserved spacer region of ribosomal DNA in <i>Drosophila</i> species. <i>Journal of Molecular Biology</i> , <b>1985</b> , 183, 519-27	6.5	9
56	Asynchronous mitotic domains during blastoderm formation in <i>Musca domestica</i> L. (Diptera). <i>Roux's Archives of Developmental Biology</i> , <b>1991</b> , 199, 373-376		8
55	Inbred lab mice are not isogenic: genetic variation within inbred strains used to infer the mutation rate per nucleotide site. <i>Heredity</i> , <b>2021</b> , 126, 107-116	3.6	8
54	Copy number variants and selective sweeps in natural populations of the house mouse ( <i>Mus musculus domesticus</i> ). <i>Frontiers in Genetics</i> , <b>2014</b> , 5, 153	4.5	7
53	Thanatotranscriptome: genes actively expressed after organismal death		7
52	The imprinted lncRNA regulates sexual preference and the sex-specific brain transcriptome in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	7
51	Automated Phenotyping Indicates Pupal Size in Is a Highly Heritable Trait with an Apparent Polygenic Basis. <i>G3: Genes, Genomes, Genetics</i> , <b>2017</b> , 7, 1277-1286	3.2	6
50	Selective sweeps versus introgression - population genetic dynamics of the murine leukemia virus receptor <i>Xpr1</i> in wild populations of the house mouse ( <i>Mus musculus</i> ). <i>BMC Evolutionary Biology</i> , <b>2015</b> , 15, 248	3	6
49	Chordate evolution in a new light. <i>Cell</i> , <b>2003</b> , 113, 812-3	56.2	6

48	An algorithm for the determination and quantification of components of nucleic acid mixtures based on single sequencing reactions. <i>BMC Bioinformatics</i> , <b>2005</b> , 6, 281	3.6	6
47	Meta-population demes constitute a reservoir for large MHC allele diversity in wild house mice (). <i>Frontiers in Zoology</i> , <b>2018</b> , 15, 15	2.8	5
46	Using the <i>Mus musculus</i> hybrid zone to assess covariation and genetic architecture of limb bone lengths. <i>Molecular Ecology Resources</i> , <b>2018</b> , 18, 908-921	8.4	5
45	Dealing with the adaptive immune system during de novo evolution of genes from intergenic sequences. <i>BMC Evolutionary Biology</i> , <b>2018</b> , 18, 121	3	5
44	Reply to SNo beneficial fitness effects of random peptidesS <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 1048	12.3	5
43	Effects of a male meiotic driver on male and female transcriptomes in the house mouse. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 286, 20191927	4.4	5
42	Evolutionary Origin of Orphan Genes <b>2013</b> ,		5
41	Of statistics and genomes. <i>Trends in Genetics</i> , <b>2004</b> , 20, 344-6	8.5	5
40	Microsatellite variability in wild populations of the house mouse is not influenced by differences in chromosomal recombination rates. <i>Biological Journal of the Linnean Society</i> , <b>2005</b> , 84, 629-635	1.9	5
39	WHAT WE HAVE ALSO LEARNED: ADAPTIVE SPECIATION IS THEORETICALLY PLAUSIBLE. <i>Evolution; International Journal of Organic Evolution</i> , <b>2005</b> , 59, 691	3.8	5
38	Involvement of SPATA31 copy number variable genes in human lifespan. <i>Aging</i> , <b>2018</b> , 10, 674-688	5.6	5
37	The Effects of Sequence Length and Composition of Random Sequence Peptides on the Growth of Cells.. <i>Genes</i> , <b>2021</b> , 12,	4.2	5
36	Segmental duplications and evolutionary acquisition of UV damage response in the SPATA31 gene family of primates and humans. <i>BMC Genomics</i> , <b>2017</b> , 18, 222	4.5	4
35	Tracing recent adaptations in natural populations of the house mouse315-333		4
34	Studying the dawn of de novo gene emergence in mice reveals fast integration of new genes into functional networks		4
33	Testing Implications of the Omnigenic Model for the Genetic Analysis of Loci Identified through Genome-wide Association. <i>Current Biology</i> , <b>2021</b> , 31, 1092-1098.e6	6.3	4
32	Phylogeography and Patterns of Incipient Speciation <b>2004</b> , 305-321		3
31	Introgression patterns between house mouse subspecies and species reveal genomic windows of frequent exchange		3

30	Effects of the Expression of Random Sequence Clones on Growth and Transcriptome Regulation in .. <i>Genes</i> , <b>2021</b> , 13,	4.2	3
29	Human core duplicon gene families: game changers or game players?. <i>Briefings in Functional Genomics</i> , <b>2019</b> , 18, 402-411	4.9	2
28	Population Genomics of the House Mouse and the Brown Rat. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2090, 435-452	1.4	2
27	Dedicated transcriptomics combined with power analysis lead to functional understanding of genes with weak phenotypic changes in knockout lines. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1008354 <sup>5</sup>		2
26	Effects of the expression of random sequence clones on growth and transcriptome regulation in <i>Escherichia coli</i>		2
25	Whole Mount In Situ hybridization for the Detection of mRNA in <i>Drosophila</i> Embryos <b>2000</b> , 573-580		2
24	No evidence for phylostratigraphic bias impacting inferences on patterns of gene emergence and evolution		2
23	The mutational load in natural populations is significantly affected by high primary rates of retroposition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	2
22	A humanized version of <i>Foxp2</i> affects ultrasonic vocalization in adult female and male mice. <i>Genes, Brain and Behavior</i> , <b>2021</b> , 20, e12764	3.6	2
21	The amylase gene cluster in house mice ( <i>Mus musculus</i> ) was subject to repeated introgression including the rescue of a pseudogene. <i>BMC Evolutionary Biology</i> , <b>2020</b> , 20, 56	3	1
20	Quantitative shape analysis with weighted covariance estimates for increased statistical efficiency. <i>Frontiers in Zoology</i> , <b>2013</b> , 10, 16	2.8	1
19	The effects of sequence length and composition of random sequence peptides on the growth of <i>E. coli</i> cells		1
18	Natural copy number differences of tandemly repeated small nucleolar RNAs in the Prader-Willi syndrome genomic region regulate individual behavioral responses in mammals		1
17	Genetic and Molecular Analysis of Early Pattern Formation in <i>Drosophila</i> <b>1992</b> , 308-327		1
16	Formation of Embryonic Axes and Blastoderm Pattern in <i>Drosophila</i> <b>1999</b> , 311-330		1
15	Identification of a genetic network for an ecologically relevant behavioural phenotype in <i>Drosophila melanogaster</i> . <i>Molecular Ecology</i> , <b>2020</b> , 29, 502-518	5.7	1
14	Natural copy number variation of tandemly repeated regulatory SNORD RNAs leads to individual phenotypic differences in mice. <i>Molecular Ecology</i> , <b>2021</b> , 30, 4708-4722	5.7	1
13	Nova Acta Leopoldina: lebende Dokumente als neues Publikationsmodell. <i>BioSpektrum</i> , <b>2019</b> , 25, 107-107.1		

- 12 Ancient molecular parasites. *Trends in Genetics*, **1999**, 15, 221 8.5
- 11 Evolution of a New Testis-Specific Functional Promoter Within the Highly Conserved Gene of the Mouse.. *Frontiers in Genetics*, **2021**, 12, 812139 4.5
- 10 The B4galnt2 Regulatory Polymorphism, Mvwf1, Causes Low VWF Levels and Segregates in Natural Mouse Populations. *Blood*, **2006**, 108, 542-542 2.2
- 9 Genetic and Molecular Analysis of Pattern Formation Processes in *Drosophila* **1991**, 273-282
- 8 In Situ Formats **1992**, 304-392
- 7 One size does not fit all. *ELife*, **2014**, 3, e02088 8.9
- 6 Dedicated transcriptomics combined with power analysis lead to functional understanding of genes with weak phenotypic changes in knockout lines **2020**, 16, e1008354
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- 2 Dedicated transcriptomics combined with power analysis lead to functional understanding of genes with weak phenotypic changes in knockout lines **2020**, 16, e1008354
- 1 Dedicated transcriptomics combined with power analysis lead to functional understanding of genes with weak phenotypic changes in knockout lines **2020**, 16, e1008354