

Michael R Rose

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138
papers

7,504
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142
ext. papers

8,301
ext. citations

6
avg, IF

5.76
L-index

#	Paper	IF	Citations
138	Long-Term Experimental Evolution in Escherichia coli. I. Adaptation and Divergence During 2,000 Generations. <i>American Naturalist</i> , 1991 , 138, 1315-1341	3.7	1128
137	LABORATORY EVOLUTION OF POSTPONED SENESCENCE IN DROSOPHILA MELANOGASTER. <i>Evolution; International Journal of Organic Evolution</i> , 1984 , 38, 1004-1010	3.8	431
136	Phenotypic plasticity and selection in Drosophila life-history evolution. I. Nutrition and the cost of reproduction. <i>Journal of Evolutionary Biology</i> , 1993 , 6, 171-193	2.3	355
135	Antagonistic pleiotropy, dominance, and genetic variation. <i>Heredity</i> , 1982 , 48, 63-78	3.6	341
134	Genome-wide analysis of a long-term evolution experiment with Drosophila. <i>Nature</i> , 2010 , 467, 587-90	50.4	321
133	Laboratory Evolution of Postponed Senescence in Drosophila melanogaster. <i>Evolution; International Journal of Organic Evolution</i> , 1984 , 38, 1004	3.8	300
132	Genetics of life history in Drosophila melanogaster. II. Exploratory selection experiments. <i>Genetics</i> , 1981 , 97, 187-96	4	298
131	A test of evolutionary theories of senescence. <i>Nature</i> , 1980 , 287, 141-2	50.4	287
130	Hormones and the physiological architecture of life history evolution. <i>Quarterly Review of Biology</i> , 1995 , 70, 1-52	5.4	273
129	Selection on stress resistance increases longevity in Drosophila melanogaster. <i>Experimental Gerontology</i> , 1992 , 27, 241-50	4.5	252
128	GENETIC COVARIATION AMONG LIFE-HISTORY COMPONENTS: THE EFFECT OF NOVEL ENVIRONMENTS. <i>Evolution; International Journal of Organic Evolution</i> , 1985 , 39, 943-945	3.8	209
127	COMPLEX TRADE-OFFS AND THE EVOLUTION OF STARVATION RESISTANCE IN DROSOPHILA MELANOGASTER. <i>Evolution; International Journal of Organic Evolution</i> , 1996 , 50, 753-766	3.8	142
126	Experimental Evolution 2009 ,		139
125	RESOURCE ACQUISITION AND THE EVOLUTION OF STRESS RESISTANCE IN DROSOPHILA MELANOGASTER. <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 1342-1352	3.8	136
124	Genetic Covariation in Drosophila Life History: Untangling the Data. <i>American Naturalist</i> , 1984 , 123, 565-569		122
123	Experimental evolution reveals natural selection on standing genetic variation. <i>Nature Genetics</i> , 2009 , 41, 251-7	36.3	114
122	DOES SELECTION FOR STRESS RESISTANCE LOWER METABOLIC RATE?. <i>Ecology</i> , 1997 , 78, 828-837	4.6	109

121	Variation in the reversibility of evolution. <i>Nature</i> , 2000 , 408, 463-6	50.4	108
120	Complex Trade-Offs and the Evolution of Starvation Resistance in <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1996 , 50, 753	3.8	104
119	Genetic Covariation Among Life-History Components: The Effect of Novel Environments. <i>Evolution; International Journal of Organic Evolution</i> , 1985 , 39, 943	3.8	100
118	High-frequency genomic rearrangements involving archaeobacterial repeat sequence elements. <i>Nature</i> , 1982 , 299, 182-5	50.4	91
117	Perspective: reverse evolution. <i>Evolution; International Journal of Organic Evolution</i> , 2001 , 55, 653-60	3.8	90
116	EXPERIMENTAL EVOLUTION OF ACCELERATED DEVELOPMENT IN DROSOPHILA. 1. DEVELOPMENTAL SPEED AND LARVAL SURVIVAL. <i>Evolution; International Journal of Organic Evolution</i> , 1997 , 51, 1536-1551	3.8	83
115	Evolution of late-life mortality in <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2002 , 56, 1982-91	3.8	82
114	The Gompertz equation as a predictive tool in demography. <i>Experimental Gerontology</i> , 1995 , 30, 553-69	4.5	78
113	Hamilton's forces of natural selection after forty years. <i>Evolution; International Journal of Organic Evolution</i> , 2007 , 61, 1265-76	3.8	73
112	How repeatable is adaptive evolution? The role of geographical origin and founder effects in laboratory adaptation. <i>Evolution; International Journal of Organic Evolution</i> , 2008 , 62, 1817-29	3.8	73
111	THE EVOLUTION OF DEVELOPMENT IN DROSOPHILA MELANOGASTER SELECTED FOR POSTPONED SENESCENCE. <i>Evolution; International Journal of Organic Evolution</i> , 1994 , 48, 1880-1899	3.8	65
110	LONG-TERM LABORATORY EVOLUTION OF A GENETIC LIFE-HISTORY TRADE-OFF IN DROSOPHILA MELANOGASTER. 1. THE ROLE OF GENOTYPE-BY-ENVIRONMENT INTERACTION. <i>Evolution; International Journal of Organic Evolution</i> , 1994 , 48, 1244-1257	3.8	64
109	Long-Term Laboratory Evolution of a Genetic Life-History Trade-Off in <i>Drosophila melanogaster</i> . 1. The Role of Genotype-by-Environment Interaction. <i>Evolution; International Journal of Organic Evolution</i> , 1994 , 48, 1244	3.8	60
108	Theories of Life-History Evolution. <i>American Zoologist</i> , 1983 , 23, 15-23		58
107	Experimental Evolution of Accelerated Development in <i>Drosophila</i> . 1. Developmental Speed and Larval Survival. <i>Evolution; International Journal of Organic Evolution</i> , 1997 , 51, 1536	3.8	57
106	The effect of superoxide dismutase alleles on aging in <i>Drosophila</i> . <i>Genetica</i> , 1993 , 91, 143-9	1.5	54
105	Testing the heterogeneity theory of late-life mortality plateaus by using cohorts of <i>Drosophila melanogaster</i> . <i>Experimental Gerontology</i> , 2000 , 35, 71-84	4.5	52
104	What is Aging?. <i>Frontiers in Genetics</i> , 2012 , 3, 134	4.5	47

103	The new biology: beyond the Modern Synthesis. <i>Biology Direct</i> , 2007 , 2, 30	7.2	45
102	The morphology of postponed senescence in <i>Drosophila melanogaster</i> . <i>Canadian Journal of Zoology</i> , 1984 , 62, 1576-1580	1.5	45
101	Methuselah Flies 2004 ,		39
100	The evolution of late life. <i>Ageing Research Reviews</i> , 2006 , 5, 14-32	12	36
99	Do longevity mutants always show trade-offs?. <i>Experimental Gerontology</i> , 2006 , 41, 1055-8	4.5	35
98	Evolutionary patterns among measures of aging. <i>Experimental Gerontology</i> , 1996 , 31, 507-16	4.5	35
97	Pioglitazone: an anti-diabetic compound with anti-aging properties. <i>Biogerontology</i> , 2007 , 8, 639-51	4.5	33
96	Statistical tests of demographic heterogeneity theories. <i>Experimental Gerontology</i> , 2003 , 38, 373-86	4.5	33
95	LONG-TERM LABORATORY EVOLUTION OF A GENETIC LIFE-HISTORY TRADE-OFF IN <i>DROSOPHILA MELANOGASTER</i> . 2. STABILITY OF GENETIC CORRELATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 1994 , 48, 1258-1268	3.8	33
94	THE SYMMETRY OF CORRELATED SELECTION RESPONSES IN ADAPTIVE EVOLUTION: AN EXPERIMENTAL STUDY USING <i>DROSOPHILA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1997 , 51, 163-172	3.8	32
93	Aging, fertility, and immortality. <i>Experimental Gerontology</i> , 2003 , 38, 27-33	4.5	32
92	Lifelong heterogeneity in fecundity is insufficient to explain late-life fecundity plateaus in <i>Drosophila melanogaster</i> . <i>Experimental Gerontology</i> , 2005 , 40, 660-70	4.5	32
91	ARTIFICIAL SELECTION ON A FITNESS-COMPONENT IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1984 , 38, 516-526	3.8	29
90	Genome-wide association study of extreme longevity in <i>Drosophila melanogaster</i> . <i>Genome Biology and Evolution</i> , 2014 , 6, 1-11	3.9	27
89	A revolution for aging research. <i>Biogerontology</i> , 2006 , 7, 269-77	4.5	27
88	The respiratory pattern in <i>Drosophila melanogaster</i> selected for desiccation resistance is not associated with the observed evolution of decreased locomotory activity. <i>Physiological and Biochemical Zoology</i> , 2004 , 77, 10-7	2	27
87	Evolution of ageing since Darwin. <i>Journal of Genetics</i> , 2008 , 87, 363-71	1.2	26
86	Two-dimensional protein electrophoretic analysis of postponed aging in <i>Drosophila</i> . <i>Genetica</i> , 1993 , 91, 183-98	1.5	26

85	Laboratory selection quickly erases historical differentiation. <i>PLoS ONE</i> , 2014 , 9, e96227	3.7	26
84	Genetics of increased lifespan in <i>Drosophila</i> . <i>BioEssays</i> , 1989 , 11, 132-5	4.1	25
83	Convergence to a novel environment: comparative method versus experimental evolution. <i>Evolution; International Journal of Organic Evolution</i> , 2004 , 58, 1503-10	3.8	24
82	CONVERGENCE TO A NOVEL ENVIRONMENT: COMPARATIVE METHOD VERSUSEXPERIMENTAL EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2004 , 58, 1503-1510	3.8	23
81	Ageing and immortality. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2000 , 355, 1657-62	5.8	23
80	Adaptation, aging, and genomic information. <i>Aging</i> , 2009 , 1, 444-50	5.6	23
79	Does Aging Stop? 2011 ,		23
78	Rapid divergence and convergence of life-history in experimentally evolved <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2016 , 70, 2085-98	3.8	22
77	Rules for the use of model organisms in anti-aging pharmacology. <i>Aging Cell</i> , 2006 , 5, 17-22	9.9	21
76	Experimental Evolution Concepts, Methods, and Applications of Selection Experiments 2009 ,		21
75	Evolution of larval foraging behaviour in <i>Drosophila</i> and its effects on growth and metabolic rates. <i>Physiological Entomology</i> , 2005 , 30, 262-269	1.9	20
74	Paradoxical physiological transitions from aging to late life in <i>Drosophila</i> . <i>Rejuvenation Research</i> , 2012 , 15, 49-58	2.6	17
73	An evolutionary no man's land. <i>Trends in Ecology and Evolution</i> , 2000 , 15, 206	10.9	17
72	Late life: a new frontier for physiology. <i>Physiological and Biochemical Zoology</i> , 2005 , 78, 869-78	2	16
71	Evolutionary dynamics of molecular markers during local adaptation: a case study in <i>Drosophila subobscura</i> . <i>BMC Evolutionary Biology</i> , 2008 , 8, 66	3	15
70	Does aging stop?. <i>Current Aging Science</i> , 2009 , 2, 3-11	2.2	14
69	Long-term functional side-effects of stimulants and sedatives in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2009 , 4, e6578	3.7	13
68	New experiments for an undivided genetics. <i>Genetics</i> , 2011 , 188, 1-10	4	13

67	Ageing: the many-headed monster. <i>Current Biology</i> , 2002 , 12, R311-2	6.3	13
66	Experimental Evolution of Accelerated Development in <i>Drosophila</i> . 2. Adult Fitness and the Fast Development Syndrome 2004 , 413-435		13
65	Genome-wide analysis of long-term evolutionary domestication in <i>Drosophila melanogaster</i> . <i>Scientific Reports</i> , 2016 , 6, 39281	4.9	13
64	Predictable phenotypic, but not karyotypic, evolution of populations with contrasting initial history. <i>Scientific Reports</i> , 2017 , 7, 913	4.9	12
63	Allozymic Differentiation in Response to Laboratory Demographic Selection of <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1997 , 51, 865	3.8	12
62	Mutation accumulation affects male virility in <i>Drosophila</i> selected for later reproduction. <i>Physiological and Biochemical Zoology</i> , 2007 , 80, 461-72	2	12
61	Fast evolutionary genetic differentiation during experimental colonizations. <i>Journal of Genetics</i> , 2013 , 92, 183-94	1.2	11
60	ALLOZYMIC DIFFERENTIATION IN RESPONSE TO LABORATORY DEMOGRAPHIC SELECTION OF <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1997 , 51, 865-872	3.8	11
59	Evolution of human lifespan: Past, future, and present. <i>American Journal of Human Biology</i> , 1998 , 10, 409-420	2.7	11
58	EVOLUTION OF LATE-LIFE MORTALITY IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2002 , 56, 1982	3.8	11
57	Effective population size and evolutionary dynamics in outbred laboratory populations of <i>Drosophila</i> . <i>Journal of Genetics</i> , 2013 , 92, 349-61	1.2	10
56	Pharmacology, genomics, and the evolutionary biology of ageing. <i>Free Radical Research</i> , 2002 , 36, 1293-7		10
55	Prospects for postponing human aging. <i>FASEB Journal</i> , 1994 , 8, 925-8	0.9	10
54	Making SENSE: strategies for engineering negligible senescence evolutionarily. <i>Rejuvenation Research</i> , 2008 , 11, 527-34	2.6	9
53	Effects of evolutionary history on genome wide and phenotypic convergence in <i>Drosophila</i> populations. <i>BMC Genomics</i> , 2018 , 19, 743	4.5	9
52	Genomic Croesus: experimental evolutionary genetics of <i>Drosophila</i> aging. <i>Experimental Gerontology</i> , 2011 , 46, 397-403	4.5	8
51	Adaptive and nonadaptive explanations of sociopathy. <i>Behavioral and Brain Sciences</i> , 1995 , 18, 566	0.9	8
50	Brief early-life non-specific incorporation of deuterium extends mean life span in <i>Drosophila melanogaster</i> without affecting fecundity. <i>Rejuvenation Research</i> , 2013 , 16, 98-104	2.6	6

49	The Janiform genetics of aging. <i>Genetica</i> , 1993 , 91, 3-10	1.5	6
48	An evolutionary and genomic approach to challenges and opportunities for eliminating aging. <i>Current Aging Science</i> , 2014 , 7, 54-9	2.2	5
47	Starvation but not locomotion enhances heart robustness in <i>Drosophila</i> . <i>Journal of Insect Physiology</i> , 2017 , 99, 8-14	2.4	4
46	The death spiral: predicting death in <i>Drosophila</i> cohorts. <i>Biogerontology</i> , 2016 , 17, 805-816	4.5	4
45	Experimental Evolution and Heart Function in <i>Drosophila</i> . <i>Physiological and Biochemical Zoology</i> , 2017 , 90, 281-293	2	4
44	PHYSIOLOGICAL MECHANISMS OF EVOLVED DESICCATION RESISTANCE IN <i>DROSOPHILA MELANOGASTER</i> 2004 , 89-100		4
43	How phenotypic convergence arises in experimental evolution. <i>Evolution; International Journal of Organic Evolution</i> , 2019 , 73, 1839-1849	3.8	3
42	The great evolutionary divide: two genomic systems biologies of aging. <i>Interdisciplinary Topics in Gerontology</i> , 2015 , 40, 63-73		3
41	Phenotypic plasticity and selection in <i>Drosophila</i> life-history evolution. I. Nutrition and the cost of reproduction 2004 , 122-144		3
40	The Creation of Methuselah Flies by Laboratory Evolution 2004 , 3-9		3
39	Genome-Wide Mapping of Gene-Phenotype Relationships in Experimentally Evolved Populations. <i>Molecular Biology and Evolution</i> , 2018 , 35, 2085-2095	8.3	3
38	Immortalist Fictions and Strategies 2013 , 196-204		3
37	<i>Drosophila</i> transcriptomics with and without ageing. <i>Biogerontology</i> , 2019 , 20, 699-710	4.5	2
36	PERSPECTIVE: REVERSE EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2007 , 55, 653-660	5.8	2
35	CONVERGENCE TO A NOVEL ENVIRONMENT: COMPARATIVE METHOD VERSUS EXPERIMENTAL EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2004 , 58, 1503	3.8	2
34	Electrophoretic Analysis of Methuselah Flies from Multiple Species 2004 , 237-248		2
33	Reverse Evolution of Aging 2004 , 251-254		2
32	Hamiltonian patterns of age-dependent adaptation to novel environments. <i>PLoS ONE</i> , 2020 , 15, e0240137	3.7	2

31	An Evolutionary Analysis of Healthspan Extension Using Diet: Have We Come to the End of the Ponce de Leon Trail?. <i>Healthy Ageing and Longevity</i> , 2015 , 265-283	0.5	2
30	Patterns of physiological decline due to age and selection in <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2016 , 70, 2550-2561	3.8	2
29	Four steps toward the control of aging: following the example of infectious disease. <i>Biogerontology</i> , 2016 , 17, 21-31	4.5	1
28	Research in the Biology of Ageing. <i>Ageing and Society</i> , 1997 , 17, 65-74	1.7	1
27	The evolution of death: why we are aging longer, by Stanley Shostak. <i>Evolution & Development</i> , 2007 , 9, 203-204	2.6	1
26	Reproduction, Nutrition, and Aging 2004 , 117-121		1
25	Metabolic Aspects of the Trade-Off between Fecundity and Longevity in <i>Drosophila melanogaster</i> 2004 , 145-164		1
24	Evolution and Physiology: Evolutionary Genetics and Environmental Stress . Ary A. Hoffmann and Peter A. Parsons. Oxford University Press, New York, 1991. X, 284 pp., illus. \$75.. <i>Science</i> , 1991 , 254, 448-448	33.3	1
23	How phenotypic convergence arises in experimental evolution		1
22	An Evolutionary Analysis of Health. <i>Healthy Ageing and Longevity</i> , 2020 , 13-34	0.5	1
21	Diet and Botanical Supplementation: Combination Therapy for Healthspan Improvement?. <i>Rejuvenation Research</i> , 2021 , 24, 331-344	2.6	1
20	THE EVOLUTION OF DEVELOPMENT IN DROSOPHILA MELANOGASTER SELECTED FOR POSTPONED SENESCENCE 2004 , 370-389		0
19	Once more with feeling. <i>Journal of Evolutionary Biology</i> , 2001 , 14, 519-519	2.3	0
18	Are You Willing to Die for Reductionism? 2019 , 373-380		0
17	A Hamiltonian Demography of Life History40-55		
16	Quantitative Genetics of Postponed Aging in <i>Drosophila melanogaster</i> . I. Analysis of Outbred Populations 2004 , 17-25		
15	EVOLUTIONARY PATTERNS AMONG MEASURES OF AGING 2004 , 40-49		
14	Increasing Stress Resistance Often Postpones Aging 2004 , 53-57		

- 13 SELECTION ON STRESS RESISTANCE INCREASES LONGEVITY IN DROSOPHILA MELANOGASTER
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- 12 Metabolic Reserves and Evolved Stress Resistance in *Drosophila melanogaster* **2004**, 78-88
- 11 Two-dimensional protein electrophoretic analysis of postponed aging in *Drosophila* **2004**, 205-220
- 10 Variation in the reversibility of evolution **2004**, 283-285
- 9 Aging, Development, and Crowding **2004**, 355-358
- 8 EXPERIMENTAL EVOLUTION OF ACCELERATED DEVELOPMENT IN DROSOPHILA. 1.
DEVELOPMENTAL SPEED AND LARVAL SURVIVAL **2004**, 390-405
- 7 LABORATORY EVOLUTION OF POSTPONED SENESCENCE IN DROSOPHILA MELANOGASTER **2004**, 10-16
- 6 David W. E. Smith, *Human Longevity*, Oxford University Press, New York and Oxford, 1993, 175 pp.,
£27.50, ISBN 0 195 08313 X.. *Ageing and Society*, **1994**, 14, 641-642 1.7
- 5 Notes Toward an Evolutionary Biology of Nutrition. *Healthy Ageing and Longevity*, **2021**, 123-151 0.5
- 4 ALLOZYMIC DIFFERENTIATION IN RESPONSE TO LABORATORY DEMOGRAPHIC SELECTION OF
DROSOPHILA MELANOGASTER **2004**, 221-228
- 3 The effect of superoxide dismutase alleles on aging in *Drosophila* **2004**, 198-204
- 2 Increased hsp22 RNA Levels in *Drosophila* Lines Genetically Selected for Increased Longevity **2004**, 229-236
- 1 Evolution and Physiology: Evolutionary Genetics and Environmental Stress . Ary A. Hoffmann and
Peter A. Parsons. Oxford University Press, New York, 1991. X, 284 pp., illus. \$75.. *Science*, **1991**, 254, 448-448³³³