Michael R Rose

List of Publications by Year in Descending Order

138 papers	7,504 citations	38 h-index	86 g-index
142 ext. papers	8,301 ext. citations	6 avg, IF	5.76 L-index

#	Paper	IF	Citations
138	Notes Toward an Evolutionary Biology of Nutrition. *Healthy Ageing and Longevity*, **2021**, 123-151	0.5	
137	Diet and Botanical Supplementation: Combination Therapy for Healthspan Improvement?. *Rejuvenation Research*, **2021**, 24, 331-344	2.6	1
136	Hamiltonian patterns of age-dependent adaptation to novel environments. *PLoS ONE*, **2020**, 15, e0240132	3.7	2
135	An Evolutionary Analysis of Health. *Healthy Ageing and Longevity*, **2020**, 13-34	0.5	1
134	How phenotypic convergence arises in experimental evolution. *Evolution; International Journal of Organic Evolution*, **2019**, 73, 1839-1849	3.8	3
133	Drosophila transcriptomics with and without ageing. *Biogerontology*, **2019**, 20, 699-710	4.5	2
132	Are You Willing to Die for Reductionism? **2019**, 373-380		0
131	Effects of evolutionary history on genome wide and phenotypic convergence in Drosophila populations. *BMC Genomics*, **2018**, 19, 743	4.5	9
130	Genome-Wide Mapping of Gene-Phenotype Relationships in Experimentally Evolved Populations. *Molecular Biology and Evolution*, **2018**, 35, 2085-2095	8.3	3
129	Starvation but not locomotion enhances heart robustness in Drosophila. *Journal of Insect Physiology*, **2017**, 99, 8-14	2.4	4
128	Predictable phenotypic, but not karyotypic, evolution of populations with contrasting initial history. *Scientific Reports*, **2017**, 7, 913	4.9	12
127	Experimental Evolution and Heart Function in Drosophila. *Physiological and Biochemical Zoology*, **2017**, 90, 281-293	2	4
126	Four steps toward the control of aging: following the example of infectious disease. *Biogerontology* , **2016**, 17, 21-31	4.5	1
125	Rapid divergence and convergence of life-history in experimentally evolved Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **2016**, 70, 2085-98	3.8	22
124	The death spiral: predicting death in Drosophila cohorts. *Biogerontology*, **2016**, 17, 805-816	4.5	4
123	Genome-wide analysis of long-term evolutionary domestication in Drosophila melanogaster. *Scientific Reports*, **2016**, 6, 39281	4.9	13
122	Patterns of physiological decline due to age and selection in Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **2016**, 70, 2550-2561	3.8	2

121	The great evolutionary divide: two genomic systems biologies of aging. *Interdisciplinary Topics in Gerontology*, **2015**, 40, 63-73		3
120	An Evolutionary Analysis of Healthspan Extension Using Diet: Have We Come to the End of the Ponce de Leon Trail?. *Healthy Ageing and Longevity*, **2015**, 265-283	0.5	2
119	Genome-wide association study of extreme longevity in Drosophila melanogaster. *Genome Biology and Evolution*, **2014**, 6, 1-11	3.9	27
118	An evolutionary and genomic approach to challenges and opportunities for eliminating aging. *Current Aging Science*, **2014**, 7, 54-9	2.2	5
117	Laboratory selection quickly erases historical differentiation. *PLoS ONE*, **2014**, 9, e96227	3.7	26
116	Fast evolutionary genetic differentiation during experimental colonizations. *Journal of Genetics*, **2013**, 92, 183-94	1.2	11
115	Effective population size and evolutionary dynamics in outbred laboratory populations of Drosophila. *Journal of Genetics*, **2013**, 92, 349-61	1.2	10
114	Brief early-life non-specific incorporation of deuterium extends mean life span in Drosophila melanogaster without affecting fecundity. *Rejuvenation Research*, **2013**, 16, 98-104	2.6	6
113	Immortalist Fictions and Strategies **2013**, 196-204		3
112	What is Aging?. *Frontiers in Genetics*, **2012**, 3, 134	4.5	47
111	Paradoxical physiological transitions from aging to late life in Drosophila. *Rejuvenation Research*, **2012**, 15, 49-58	2.6	17
110	Genomic Croesus: experimental evolutionary genetics of Drosophila aging. *Experimental Gerontology*, **2011**, 46, 397-403	4.5	8
109	New experiments for an undivided genetics. *Genetics*, **2011**, 188, 1-10	4	13
108	Does Aging Stop? **2011**,		23
107	Genome-wide analysis of a long-term evolution experiment with Drosophila. *Nature*, **2010**, 467, 587-90	50.4	321
106	Does aging stop?. *Current Aging Science*, **2009**, 2, 3-11	2.2	14
105	Long-term functional side-effects of stimulants and sedatives in Drosophila melanogaster. *PLoS ONE*, **2009**, 4, e6578	3.7	13
104	Experimental evolution reveals natural selection on standing genetic variation. *Nature Genetics*, **2009**, 41, 251-7	36.3	114

103	Experimental Evolution **2009**,		139
102	Experimental EvolutionConcepts, Methods, and Applications of Selection Experiments **2009**,		21
101	Adaptation, aging, and genomic information. *Aging*, **2009**, 1, 444-50	5.6	23
100	Evolutionary dynamics of molecular markers during local adaptation: a case study in Drosophila subobscura. *BMC Evolutionary Biology*, **2008**, 8, 66	3	15
99	Making SENSE: strategies for engineering negligible senescence evolutionarily. *Rejuvenation Research*, **2008**, 11, 527-34	2.6	9
98	Evolution of ageing since Darwin. *Journal of Genetics*, **2008**, 87, 363-71	1.2	26
97	How repeatable is adaptive evolution? The role of geographical origin and founder effects in laboratory adaptation. *Evolution; International Journal of Organic Evolution*, **2008**, 62, 1817-29	3.8	73
96	The new biology: beyond the Modern Synthesis. *Biology Direct*, **2007**, 2, 30	7.2	45
95	PERSPECTIVE: REVERSE EVOLUTION. *Evolution; International Journal of Organic Evolution*, **2007**, 55, 653-660	3.8	2
94	The evolution of death: why we are aging longer, by Stanley Shostak. *Evolution & Development*, **2007**, 9, 203-204	2.6	1
93	Hamilton's forces of natural selection after forty years. *Evolution; International Journal of Organic Evolution*, **2007**, 61, 1265-76	3.8	73
92	Pioglitazone: an anti-diabetic compound with anti-aging properties. *Biogerontology*, **2007**, 8, 639-51	4.5	33
91	Mutation accumulation affects male virility in Drosophila selected for later reproduction. *Physiological and Biochemical Zoology*, **2007**, 80, 461-72	2	12
90	Do longevity mutants always show trade-offs?. *Experimental Gerontology*, **2006**, 41, 1055-8	4.5	35
89	The evolution of late life. *Ageing Research Reviews*, **2006**, 5, 14-32	12	36
88	Rules for the use of model organisms in anti-aging pharmacology. *Aging Cell*, **2006**, 5, 17-22	9.9	21
87	A revolution for aging research. *Biogerontology*, **2006**, 7, 269-77	4.5	27
86	Evolution of larval foraging behaviour in Drosophila and its effects on growth and metabolic rates. *Physiological Entomology*, **2005**, 30, 262-269	1.9	20

85	Lifelong heterogeneity in fecundity is insufficient to explain late-life fecundity plateaus in Drosophila melanogaster. *Experimental Gerontology*, **2005**, 40, 660-70	4.5	32
84	Late life: a new frontier for physiology. *Physiological and Biochemical Zoology*, **2005**, 78, 869-78	2	16
83	The respiratory pattern in Drosophila melanogaster selected for desiccation resistance is not associated with the observed evolution of decreased locomotory activity. *Physiological and Biochemical Zoology*, **2004**, 77, 10-7	2	27
82	CONVERGENCE TO A NOVEL ENVIRONMENT: COMPARATIVE METHOD VERSUS EXPERIMENTAL EVOLUTION. *Evolution; International Journal of Organic Evolution*, **2004**, 58, 1503	3.8	2
81	CONVERGENCE TO A NOVEL ENVIRONMENT: COMPARATIVE METHOD VERSUSEXPERIMENTAL EVOLUTION. *Evolution; International Journal of Organic Evolution*, **2004**, 58, 1503-1510	3.8	23
80	Quantitative Genetics of Postponed Aging in Drosophila melanogaster. I. Analysis of Outbred Populations **2004**, 17-25		
79	EVOLUTIONARY PATTERNS AMONG MEASURES OF AGING **2004**, 40-49		
78	Increasing Stress Resistance Often Postpones Aging **2004**, 53-57		
77	SELECTION ON STRESS RESISTANCE INCREASES LONGEVITY IN DROSOPHILA MELANOGASTER **2004**, 68-77		
76	Metabolic Reserves and Evolved Stress Resistance in Drosophila melanogaster **2004**, 78-88		
75	PHYSIOLOGICAL MECHANISMS OF EVOLVED DESICCATION RESISTANCE IN DROSOPHILA MELANOGASTER **2004**, 89-100		4
74	Reproduction, Nutrition, and Aging **2004**, 117-121		1
73	Phenotypic plasticity and selection in Drosophila life-history evolution. I. Nutrition and the cost of reproduction **2004**, 122-144		3
72	Metabolic Aspects of the Trade-Off between Fecundity and Longevity in Drosophila melanogaster **2004**, 145-164		1
71	Two-dimensional protein electrophoretic analysis of postponed aging in Drosophila **2004**, 205-220		
70	Electrophoretic Analysis of Methuselah Flies from Multiple Species **2004**, 237-248		2
69	Reverse Evolution of Aging **2004**, 251-254		2
68	Variation in the reversibility of evolution **2004**, 283-285		

67	Aging, Development, and Crowding **2004**, 355-358		
66	THE EVOLUTION OF DEVELOPMENT IN DROSOPHILA MELANOGASTER SELECTED FOR POSTPONED SENESCENCE **2004**, 370-389		0
65	EXPERIMENTAL EVOLUTION OF ACCELERATED DEVELOPMENT IN DROSOPHILA. 1. DEVELOPMENTAL SPEED AND LARVAL SURVIVAL **2004**, 390-405		
64	Experimental Evolution of Accelerated Development in Drosophila. 2. Adult Fitness and the Fast Development Syndrome **2004**, 413-435		13
63	The Creation of Methuselah Flies by Laboratory Evolution **2004**, 3-9		3
62	LABORATORY EVOLUTION OF POSTPONED SENESCENCE IN DROSOPHILA MELANOGASTER **2004**, 10-16		
61	Methuselah Flies **2004**,		39
60	ALLOZYMIC DIFFERENTIATION IN RESPONSE TO LABORATORY DEMOGRAPHIC SELECTION OF DROSOPHILA MELANOGASTER **2004**, 221-228		
59	The effect of superoxide dismutase alleles on aging in Drosophila **2004**, 198-204		
58	Increased hsp22 RNA Levels in Drosophila Lines Genetically Selected for Increased Longevity **2004**, 229-236		
57	Convergence to a novel environment: comparative method versus experimental evolution. *Evolution; International Journal of Organic Evolution*, **2004**, 58, 1503-10	3.8	24
56	Aging, fertility, and immortality. *Experimental Gerontology*, **2003**, 38, 27-33	4.5	32
55	Statistical tests of demographic heterogeneity theories. *Experimental Gerontology*, **2003**, 38, 373-86	4.5	33
54	Ageing: the many-headed monster. *Current Biology*, **2002**, 12, R311-2	6.3	13
53	Evolution of late-life mortality in Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **2002**, 56, 1982-91	3.8	82
52	EVOLUTION OF LATE-LIFE MORTALITY IN DROSOPHILA MELANOGASTER. *Evolution; International Journal of Organic Evolution*, **2002**, 56, 1982	3.8	11
51	Pharmacology, genomics, and the evolutionary biology of ageing. *Free Radical Research*, **2002**, 36, 1293-7	4	10
50	Once more with feeling. *Journal of Evolutionary Biology*, **2001**, 14, 519-519	2.3	0

49	Perspective: reverse evolution. *Evolution; International Journal of Organic Evolution*, **2001**, 55, 653-60	3.8	90
48	Variation in the reversibility of evolution. *Nature*, **2000**, 408, 463-6	50.4	108
47	Testing the heterogeneity theory of late-life mortality plateaus by using cohorts of Drosophila melanogaster. *Experimental Gerontology*, **2000**, 35, 71-84	4.5	52
46	An evolutionary no man\'s land. *Trends in Ecology and Evolution*, **2000**, 15, 206	10.9	17
45	Ageing and immortality. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2000**, 355, 1657-62	5.8	23
44	Evolution of human lifespan: Past, future, and present. *American Journal of Human Biology*, **1998**, 10, 409-420	2.7	11
43	RESOURCE ACQUISITION AND THE EVOLUTION OF STRESS RESISTANCE IN DROSOPHILA MELANOGASTER. *Evolution; International Journal of Organic Evolution*, **1998**, 52, 1342-1352	3.8	136
42	Research in the Biology of Ageing. *Ageing and Society*, **1997**, 17, 65-74	1.7	1
41	EXPERIMENTAL EVOLUTION OF ACCELERATED DEVELOPMENT IN DROSOPHILA. 1. DEVELOPMENTAL SPEED AND LARVAL SURVIVAL. *Evolution; International Journal of Organic Evolution*, **1997**, 51, 1536-1551	3.8	83
40	THE SYMMETRY OF CORRELATED SELECTION RESPONSES IN ADAPTIVE EVOLUTION: AN EXPERIMENTAL STUDY USING DROSOPHILA. *Evolution; International Journal of Organic Evolution*, **1997**, 51, 163-172	3.8	32
39	ALLOZYMIC DIFFERENTIATION IN RESPONSE TO LABORATORY DEMOGRAPHIC SELECTION OF DROSOPHILA MELANOGASTER. *Evolution; International Journal of Organic Evolution*, **1997**, 51, 865-872	3.8	11
38	Allozymic Differentiation in Response to Laboratory Demographic Selection of Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **1997**, 51, 865	3.8	12
37	Experimental Evolution of Accelerated Development in Drosophila. 1. Developmental Speed and Larval Survival. *Evolution; International Journal of Organic Evolution*, **1997**, 51, 1536	3.8	57
36	DOES SELECTION FOR STRESS RESISTANCE LOWER METABOLIC RATE?. *Ecology*, **1997**, 78, 828-837	4.6	109
35	Complex Trade-Offs and the Evolution of Starvation Resistance in Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **1996**, 50, 753	3.8	104
34	COMPLEX TRADE-OFFS AND THE EVOLUTION OF STARVATION RESISTANCE IN DROSOPHILA MELANOGASTER. *Evolution; International Journal of Organic Evolution*, **1996**, 50, 753-766	3.8	142
33	Evolutionary patterns among measures of aging. *Experimental Gerontology*, **1996**, 31, 507-16	4.5	35
32	The Gompertz equation as a predictive tool in demography. *Experimental Gerontology*, **1995**, 30, 553-69	4.5	78

31	Adaptive and nonadaptive explanations of sociopathy. *Behavioral and Brain Sciences*, **1995**, 18, 566	0.9	8
30	Hormones and the physiological architecture of life history evolution. *Quarterly Review of Biology*, **1995**, 70, 1-52	5.4	273
29	Prospects for postponing human aging. *FASEB Journal*, **1994**, 8, 925-8	0.9	10
28	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	
27	Long-Term Laboratory Evolution of a Genetic Life-History Trade-Off in Drosophila melanogaster. 1. The Role of Genotype-by-Environment Interaction. *Evolution; International Journal of Organic Evolution*, **1994**, 48, 1244	3.8	60
26	THE EVOLUTION OF DEVELOPMENT IN DROSOPHILA MELANOGASTER SELECTED FOR POSTPONED SENESCENCE. *Evolution; International Journal of Organic Evolution*, **1994**, 48, 1880-1899	3.8	65
25	LONG-TERM LABORATORY EVOLUTION OF A GENETIC LIFE-HISTORY TRADE-OFF IN DROSOPHILA MELANOGASTER. 2. STABILITY OF GENETIC CORRELATIONS. *Evolution; International Journal of Organic Evolution*, **1994**, 48, 1258-1268	3.8	33
24	LONG-TERM LABORATORY EVOLUTION OF A GENETIC LIFE-HISTORY TRADE-OFF IN DROSOPHILA MELANOGASTER. 1. THE ROLE OF GENOTYPE-BY-ENVIRONMENT INTERACTION. *Evolution; International Journal of Organic Evolution*, **1994**, 48, 1244-1257	3.8	64
23	Phenotypic plasticity and selection in Drosophila life-history evolution. I. Nutrition and the cost of reproduction. *Journal of Evolutionary Biology*, **1993**, 6, 171-193	2.3	355
22	The Janiform genetics of aging. *Genetica*, **1993**, 91, 3-10	1.5	6
21	The effect of superoxide dismutase alleles on aging in Drosophila. *Genetica*, **1993**, 91, 143-9	1.5	54
20	Two-dimensional protein electrophoretic analysis of postponed aging in Drosophila. *Genetica*, **1993**, 91, 183-98	1.5	26
19	Selection on stress resistance increases longevity in Drosophila melanogaster. *Experimental Gerontology*, **1992**, 27, 241-50	4.5	252
18	Long-Term Experimental Evolution in Escherichia coli. I. Adaptation and Divergence During 2,000 Generations. *American Naturalist*, **1991**, 138, 1315-1341	3.7	1128
17	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, 448-448	33.3	1
16	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, 448-448	33.3	
15	Genetics of increased lifespan in Drosophila. *BioEssays*, **1989**, 11, 132-5	4.1	25
14	GENETIC COVARIATION AMONG LIFE-HISTORY COMPONENTS: THE EFFECT OF NOVEL ENVIRONMENTS. *Evolution; International Journal of Organic Evolution*, **1985**, 39, 943-945	3.8	209

13	Genetic Covariation Among Life-History Components: The Effect of Novel Environments. *Evolution; International Journal of Organic Evolution*, **1985**, 39, 943	3.8	100
12	Laboratory Evolution of Postponed Senescence in Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **1984**, 38, 1004	3.8	300
11	The morphology of postponed senescence in Drosophila melanogaster. *Canadian Journal of Zoology*, **1984**, 62, 1576-1580	1.5	45
10	ARTIFICIAL SELECTION ON A FITNESS-COMPONENT IN DROSOPHILA MELANOGASTER. *Evolution; International Journal of Organic Evolution*, **1984**, 38, 516-526	3.8	29
9	LABORATORY EVOLUTION OF POSTPONED SENESCENCE IN DROSOPHILA MELANOGASTER. *Evolution; International Journal of Organic Evolution*, **1984**, 38, 1004-1010	3.8	431
8	Genetic Covariation in Drosophila Life History: Untangling the Data. *American Naturalist*, **1984**, 123, 565-569	3.7	122
7	Theories of Life-History Evolution. *American Zoologist*, **1983**, 23, 15-23		58
6	Antagonistic pleiotropy, dominance, and genetic variation. *Heredity*, **1982**, 48, 63-78	3.6	341
5	High-frequency genomic rearrangements involving archaebacterial repeat sequence elements. *Nature*, **1982**, 299, 182-5	50.4	91
4	Genetics of life history in Drosophila melanogaster. II. Exploratory selection experiments. *Genetics*, **1981**, 97, 187-96	4	298
3	A test of evolutionary theories of senescence. *Nature*, **1980**, 287, 141-2	50.4	287
2	A Hamiltonian Demography of Life History40-55		
1	How phenotypic convergence arises in experimental evolution		1