

Leonard Nunney

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

5,791
citations

81900
39
h-index

79698
73
g-index

81
all docs

81
docs citations

81
times ranked

5072
citing authors

#	ARTICLE	IF	CITATIONS
1	Big houses, big cars, superfleas and the costs of reproduction. Trends in Ecology and Evolution, 2000, 15, 421-425.	8.7	674
2	THE INFLUENCE OF MATING SYSTEM AND OVERLAPPING GENERATIONS ON EFFECTIVE POPULATION SIZE. Evolution; International Journal of Organic Evolution, 1993, 47, 1329-1341.	2.3	304
3	Estimating the Effective Population Size of Conserved Populations. Conservation Biology, 1994, 8, 175-184.	4.7	270
4	Understanding and Estimating Effective Population Size for Practical Application in Marine Species Management. Conservation Biology, 2011, 25, 438-449.	4.7	270
5	Assessing minimum viable population size: Demography meets population genetics. Trends in Ecology and Evolution, 1993, 8, 234-239.	8.7	257
6	Increased sexual activity reduces male immune function in <i>Drosophila melanogaster</i> . Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 7904-7909.	7.1	250
7	The Influence of Mating System and Overlapping Generations on Effective Population Size. Evolution; International Journal of Organic Evolution, 1993, 47, 1329.	2.3	182
8	Lineage selection and the evolution of multistage carcinogenesis. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 493-498.	2.6	175
9	How Do Plant Diseases Caused by <i>Xylella fastidiosa</i> Emerge?. Plant Disease, 2015, 99, 1457-1467.	1.4	168
10	Multilocus Sequence Type System for the Plant Pathogen <i>Xylella fastidiosa</i> and Relative Contributions of Recombination and Point Mutation to Clonal Diversity. Applied and Environmental Microbiology, 2005, 71, 8491-8499.	3.1	137
11	Multilocus Sequence Typing of <i>Xylella fastidiosa</i> Causing Pierce's Disease and Oleander Leaf Scorch in the United States. Phytopathology, 2010, 100, 601-611.	2.2	133
12	BATEMAN'S PRINCIPLE AND IMMUNITY: PHENOTYPICALLY PLASTIC REPRODUCTIVE STRATEGIES PREDICT CHANGES IN IMMUNOLOGICAL SEX DIFFERENCES. Evolution; International Journal of Organic Evolution, 2005, 59, 1510-1517..	2.3	132
13	FLUCTUATING POPULATION SIZE AND THE RATIO OF EFFECTIVE TO CENSUS POPULATION SIZE. Evolution; International Journal of Organic Evolution, 1997, 51, 2017-2021.	2.3	128
14	A Multigene Phylogenetic Study of Clonal Diversity and Divergence in North American Strains of the Plant Pathogen <i>Xylella fastidiosa</i> . Applied and Environmental Microbiology, 2005, 71, 3832-3839.	3.1	126
15	The Effective Size of Annual Plant Populations: The Interaction of a Seed Bank with Fluctuating Population Size in Maintaining Genetic Variation. American Naturalist, 2002, 160, 195-204.	2.1	119
16	Factors influencing the optimum sex ratio in a structured population. Theoretical Population Biology, 1988, 33, 1-30.	1.1	115
17	THE MAINTENANCE OF SEX BY GROUP SELECTION. Evolution; International Journal of Organic Evolution, 1989, 43, 245-257.	2.3	115
18	The evolution of senescence in fish. Mechanisms of Ageing and Development, 2002, 123, 773-789.	4.6	115

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19	THE RESPONSE TO SELECTION FOR FAST LARVAL DEVELOPMENT IN <i>DROSOPHILA MELANOGASTER</i> AND ITS EFFECT ON ADULT WEIGHT: AN EXAMPLE OF A FITNESS TRADE-OFF. <i>Evolution; International Journal of Organic Evolution</i> , 1996, 50, 1193-1204.	2.3	112
20	Large-Scale Intersubspecific Recombination in the Plant-Pathogenic Bacterium <i>Xylella fastidiosa</i> Is Associated with the Host Shift to Mulberry. <i>Applied and Environmental Microbiology</i> , 2014, 80, 3025-3033.	3.1	110
21	The influence of variation in female fecundity on effective population size. <i>Biological Journal of the Linnean Society</i> , 1996, 59, 411-425.	1.6	106
22	Population Genomic Analysis of a Bacterial Plant Pathogen: Novel Insight into the Origin of Pierce's Disease of Grapevine in the U.S.. <i>PLoS ONE</i> , 2010, 5, e15488.	2.5	88
23	Detecting Genetic Introgression: High Levels of Intersubspecific Recombination Found in <i>Xylella fastidiosa</i> in Brazil. <i>Applied and Environmental Microbiology</i> , 2012, 78, 4702-4714.	3.1	74
24	Recent Evolutionary Radiation and Host Plant Specialization in the <i>Xylella fastidiosa</i> Subspecies Native to the United States. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2189-2200.	3.1	74
25	THE EFFECT OF TEMPERATURE ON BODY SIZE AND FECUNDITY IN FEMALE <i>DROSOPHILA MELANOGASTER</i> : EVIDENCE FOR ADAPTIVE PLASTICITY. <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 1529-1535.	2.3	72
26	The Complex Biogeography of the Plant Pathogen <i>Xylella fastidiosa</i> : Genetic Evidence of Introductions and Subspecific Introgression in Central America. <i>PLoS ONE</i> , 2014, 9, e112463.	2.5	72
27	Size matters: height, cell number and a person's risk of cancer. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181743.	2.6	70
28	The Response to Selection for Fast Larval Development in <i>Drosophila melanogaster</i> and its Effect on Adult Weight: An Example of a Fitness Trade-Off. <i>Evolution; International Journal of Organic Evolution</i> , 1996, 50, 1193.	2.3	68
29	THE EFFECTIVE SIZE OF A HIERARCHICALLY STRUCTURED POPULATION. <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 1-10.	2.3	68
30	The real war on cancer: the evolutionary dynamics of cancer suppression. <i>Evolutionary Applications</i> , 2013, 6, 11-19.	3.1	67
31	<i>Drosophila</i> on Oranges: Colonization, Competition, and Coexistence. <i>Ecology</i> , 1990, 71, 1904-1915.	3.2	65
32	Fluctuating Population Size and the Ratio of Effective to Census Population Size. <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 2017.	2.3	63
33	Peto's paradox and the promise of comparative oncology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140177.	4.0	58
34	Identifying key questions in the ecology and evolution of cancer. <i>Evolutionary Applications</i> , 2021, 14, 877-892.	3.1	58
35	Sex Differences in Larval Competition in <i>Drosophila melanogaster</i> : The Testing of a Competition Model and Its Relevance to Frequency-Dependent Selection. <i>American Naturalist</i> , 1983, 121, 67-93.	2.1	57
36	Intersubspecific Recombination in <i>Xylella fastidiosa</i> Strains Native to the United States: Infection of Novel Hosts Associated with an Unsuccessful Invasion. <i>Applied and Environmental Microbiology</i> , 2014, 80, 1159-1169.	3.1	53

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37	MEASURING THE RATIO OF EFFECTIVE POPULATION SIZE TO ADULT NUMBERS USING GENETIC AND ECOLOGICAL DATA. <i>Evolution; International Journal of Organic Evolution</i> , 1995, 49, 389-392.	2.3	52
38	The Effective Size of a Hierarchically Structured Population. <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 1.	2.3	47
39	Intragenomic conflict in populations infected by Parthenogenesis Inducing <i>Wolbachia</i> ends with irreversible loss of sexual reproduction. <i>BMC Evolutionary Biology</i> , 2010, 10, 229.	3.2	44
40	Measuring the Ratio of Effective Population Size to Adult Numbers using Genetic and Ecological Data. <i>Evolution; International Journal of Organic Evolution</i> , 1995, 49, 389.	2.3	41
41	SEXUAL SELECTION AND IMMUNE FUNCTION IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 386-400.	2.3	39
42	Peto's paradox and the hallmarks of cancer: constructing an evolutionary framework for understanding the incidence of cancer. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20150161.	4.0	39
43	An Experimental Test of the Host-Plant Range of Nonrecombinant Strains of North American <i>Xylella fastidiosa</i> subsp. <i>multiplex</i> . <i>Phytopathology</i> , 2019, 109, 294-300.	2.2	37
44	The population genetics of multistage carcinogenesis. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 1183-1191.	2.6	36
45	Adapting to a Changing Environment: Modeling the Interaction of Directional Selection and Plasticity. <i>Journal of Heredity</i> , 2016, 107, 15-24.	2.4	34
46	Evolutionary biology: Group selection and the sex ratio. <i>Nature</i> , 1985, 313, 10-11.	27.8	30
47	The effect of long time delays in predator-prey systems. <i>Theoretical Population Biology</i> , 1985, 27, 202-221.	1.1	28
48	The colonization of oranges by the cosmopolitan <i>Drosophila</i> . <i>Oecologia</i> , 1996, 108, 552-561.	2.0	27
49	Sex-specific effects of inbreeding in wild-caught <i>Drosophila melanogaster</i> under benign and stressful conditions. <i>Journal of Evolutionary Biology</i> , 2010, 23, 2309-2323.	1.7	26
50	The Importance of Multilocus Sequence Typing: Cautionary Tales from the Bacterium <i>Xylella fastidiosa</i> . <i>Phytopathology</i> , 2012, 102, 456-460.	2.2	25
51	The effect of neighborhood size on effective population size in theory and in practice. <i>Heredity</i> , 2016, 117, 224-232.	2.6	25
52	Seasonal stress drives predictable changes in inbreeding depression in field-tested captive populations of <i>Drosophila melanogaster</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 3756-3764.	2.6	24
53	The Limits to Knowledge in Conservation Genetics. , 2000, , 179-194.		24
54	Absolute stability in predator-prey models. <i>Theoretical Population Biology</i> , 1985, 28, 209-232.	1.1	15

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55	A phylogenetic test of the role of CRISPR-Cas in limiting plasmid acquisition and prophage integration in bacteria. <i>Plasmid</i> , 2019, 104, 102418.	1.4	14
56	Resolving Peto's paradox: Modeling the potential effects of size-related metabolic changes, and of the evolution of immune policing and cancer suppression. <i>Evolutionary Applications</i> , 2020, 13, 1581-1592.	3.1	14
57	The expression of tumour suppressors and proto-oncogenes in tissues susceptible to their hereditary cancers. <i>British Journal of Cancer</i> , 2015, 113, 345-353.	6.4	13
58	Overestimating the Role of Environment in Cancers. <i>Cancer Prevention Research</i> , 2016, 9, 773-776.	1.5	13
59	Commentary: The multistage model of carcinogenesis, Peto's paradox and evolution. <i>International Journal of Epidemiology</i> , 2016, 45, 649-653.	1.9	13
60	Cancer suppression and the evolution of multiple retrogene copies of TP53 in elephants: A re-evaluation. <i>Evolutionary Applications</i> , 2022, 15, 891-901.	3.1	11
61	GEOGRAPHIC PATTERNS OF GENETIC DIFFERENTIATION WITHIN THE RESTRICTED RANGE OF THE ENDANGERED STEPHENS' KANGAROO RAT <i>DIPODOMYS STEPHENSI</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 1233-1244.	2.3	10
62	The guardians of inherited oncogenic vulnerabilities. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 1-6.	2.3	10
63	Pupal period and adult size in <i>Drosophila melanogaster</i> : a cautionary tale of contrasting correlations between two sexually dimorphic traits. <i>Journal of Evolutionary Biology</i> , 2007, 20, 141-151.	1.7	9
64	The influence of variation in female fecundity on effective population size. <i>Biological Journal of the Linnean Society</i> , 1996, 59, 411-425.	1.6	9
65	THE ROLE OF DEME SIZE, REPRODUCTIVE PATTERNS, AND DISPERSAL IN THE DYNAMICS OF <i>LETHAL HAPLOTYPES</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 1342-1359.	2.3	8
66	GEOGRAPHIC PATTERNS OF GENETIC DIFFERENTIATION WITHIN THE RESTRICTED RANGE OF THE ENDANGERED STEPHENS' KANGAROO RAT <i>DIPODOMYS STEPHENSI</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 1233.	2.3	8
67	Detecting Natural Selection at the Molecular Level: A Reexamination of Some "Classic" Examples of Adaptive Evolution. <i>Journal of Molecular Evolution</i> , 2006, 62, 176-195.	1.8	8
68	12. Lineage Selection: Natural Selection for Long-Term Benefit. , 2000, , 238-252.		8
69	Reduction in the cumulative effect of stress-induced inbreeding depression due to intragenerational purging in <i>Drosophila melanogaster</i> . <i>Heredity</i> , 2016, 116, 304-313.	2.6	7
70	LOWER GROUP PRODUCTIVITY UNDER KIN-SELECTED REPRODUCTIVE ALTRUISM. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 2023-2031.	2.3	6
71	Telomeres, the loop tying cancer to organismal life histories. <i>Molecular Ecology</i> , 2022, 31, 6273-6285.	3.9	6
72	Interactive competition models and isocline shape. <i>Mathematical Biosciences</i> , 1981, 56, 77-110.	1.9	5

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73	Can Neutral Molecular Markers be Used to Determine the Success of an Introduction of a "Better" Strain Into an Established Population of a Biocontrol Parasitoid?. <i>Journal of Economic Entomology</i> , 2014, 107, 483-495.	1.8	5
74	Host and symbiont genetic contributions to fitness in a <i>Trichogramma</i> "Wolbachia" symbiosis. <i>PeerJ</i> , 2018, 6, e4655.	2.0	5
75	Insight into post-mating interactions between the sexes: relatedness suppresses productivity of singly mated female <i>Drosophila melanogaster</i> . <i>Journal of Evolutionary Biology</i> , 2007, 20, 1988-1997.	1.7	4
76	Determining cancer risk: the evolutionary multistage model or total stem cell divisions?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20202291.	2.6	4
77	The Evolutionary Origins of Cancer and Its Control by Immune Policing and Genetic Suppression. , 2017, , 1-9.		3
78	Hardy "Weinberg ratios and rare male mating advantage. <i>Nature</i> , 1976, 259, 304-305.	27.8	0
79	George C. Williams. 1992: <i>Natural Selection: Domains, Levels and Challenges</i> . Oxford University Press. £14.95. ISBN: 0-19-506933-1.. <i>Journal of Evolutionary Biology</i> , 1993, 6, 773-775.	1.7	0
80	Minimum animal populations. <i>Trends in Ecology and Evolution</i> , 1995, 10, 134-135.	8.7	0
81	LOWER GROUP PRODUCTIVITY UNDER KIN-SELECTED REPRODUCTIVE ALTRUISM. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 2023.	2.3	0