

# Patrick C Phillips

## List of Publications by Year in descending order

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130  
papers

9,429  
citations

53794

45  
h-index

45317

90  
g-index

157  
all docs

157  
docs citations

157  
times ranked

9561  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Epistasis – the essential role of gene interactions in the structure and evolution of genetic systems. Nature Reviews Genetics, 2008, 9, 855-867.   | 16.3 | 1,262     |
| 2  | Network thinking in ecology and evolution. Trends in Ecology and Evolution, 2005, 20, 345-353.  | 8.7  | 728       |
| 3  | VISUALIZING MULTIVARIATE SELECTION. Evolution; International Journal of Organic Evolution, 1989, 43, 1209-1222.   | 2.3  | 507       |
| 4  | Comparative quantitative genetics: evolution of the G matrix. Trends in Ecology and Evolution, 2002, 17, 320-327.   | 8.7  | 467       |
| 5  | Genotype to Phenotype: A Complex Problem. Science, 2010, 328, 469-469.  | 12.6 | 358       |
| 6  | Parallel genetic basis for repeated evolution of armor loss in Alaskan threespine stickleback populations. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6050-6055. | 7.1  | 319       |
| 7  | HIERARCHICAL COMPARISON OF GENETIC VARIANCE-COVARIANCE MATRICES. I. USING THE FLURY HIERARCHY. Evolution; International Journal of Organic Evolution, 1999, 53, 1506-1515.  | 2.3  | 309       |
| 8  | The Language of Gene Interaction. Genetics, 1998, 149, 1167-1171.   | 2.9  | 235       |
| 9  | Visualizing Multivariate Selection. Evolution; International Journal of Organic Evolution, 1989, 43, 1209.  | 2.3  | 206       |
| 10 | Mutation load and rapid adaptation favour outcrossing over self-fertilization. Nature, 2009, 462, 350-352.  | 27.8 | 191       |
| 11 | Using Population Genomics to Detect Selection in Natural Populations: Key Concepts and Methodological Considerations. International Journal of Plant Sciences, 2010, 171, 1059-1071.                              | 1.3  | 165       |
| 12 | Inbreeding Changes the Shape of the Genetic Covariance Matrix in <i>Drosophila melanogaster</i> . Genetics, 2001, 158, 1137-1145.   | 2.9  | 156       |
| 13 | Hierarchical Comparison of Genetic Variance-Covariance Matrices. I. Using the Flury Hierarchy. Evolution; International Journal of Organic Evolution, 1999, 53, 1506.   | 2.3  | 145       |
| 14 | Evolution and development of facial bone morphology in threespine sticklebacks. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5791-5796.                            | 7.1  | 115       |
| 15 | POWER AND POTENTIAL BIAS IN FIELD STUDIES OF NATURAL SELECTION. Evolution; International Journal of Organic Evolution, 2004, 58, 479-485.   | 2.3  | 112       |
| 16 | Selection and Maintenance of Androdioecy in <i>Caenorhabditis elegans</i> . Genetics, 2002, 160, 975-982.   | 2.9  | 107       |
| 17 | The Opportunity for Canalization and the Evolution of Genetic Networks. American Naturalist, 2005, 165, 147-162.  | 2.1  | 104       |
| 18 | A long journey to reproducible results. Nature, 2017, 548, 387-388.   | 27.8 | 104       |

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|----|--|------|-----------|
| 19 | Studies of threespine stickleback developmental evolution: progress and promise. <i>Genetica</i> , 2006, 129, 105-126.   | 1.1  | 102       |
| 20 | Reproductive Mode and the Evolution of Genome Size and Structure in <i>Caenorhabditis</i> Nematodes. <i>PLoS Genetics</i> , 2015, 11, e1005323.  | 3.5  | 102       |
| 21 | Impact of genetic background and experimental reproducibility on identifying chemical compounds with robust longevity effects. <i>Nature Communications</i> , 2017, 8, 14256.  | 12.8 | 102       |
| 22 | Outcrossing and the Maintenance of Males within <i>C. elegans</i> Populations. <i>Journal of Heredity</i> , 2010, 101, S62-S74.  | 2.4  | 101       |
| 23 | Mutation Accumulation in Populations of Varying Size: The Distribution of Mutational Effects for Fitness Correlates in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2004, 166, 1269-1279.   | 2.9  | 100       |
| 24 | HIERARCHICAL COMPARISON OF GENETIC VARIANCE-COVARIANCE MATRICES. II COASTAL-INLAND DIVERGENCE IN THE GARTER SNAKE, <i>Thamnophis elegans</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 1516-1527.     | 2.3  | 98        |
| 25 | Experimental Evolution with <i>Caenorhabditis</i> Nematodes. <i>Genetics</i> , 2017, 206, 691-716.   | 2.9  | 94        |
| 26 | Spontaneous Mutational Correlations for Life-History, Morphological and Behavioral Characters in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2005, 170, 645-653.   | 2.9  | 92        |
| 27 | NATURAL TRANSFORMATION INCREASES THE RATE OF ADAPTATION IN THE HUMAN PATHOGEN <i>HELICOBACTER PYLORI</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2007, 62, 071101082849001-???                                | 2.3  | 89        |
| 28 | More Than the Sum of Its Parts: A Complex Epistatic Network Underlies Natural Variation in Thermal Preference Behavior in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2012, 192, 1533-1542.                                      | 2.9  | 85        |
| 29 | Molecular evolution and quantitative variation for chemosensory behaviour in the nematode genus <i>Caenorhabditis</i> . <i>Molecular Ecology</i> , 2003, 12, 1325-1337.  | 3.9  | 82        |
| 30 | ECOLOGICAL AND DEVELOPMENTAL CONTEXT OF NATURAL SELECTION: MATERNAL EFFECTS AND THERMALLY INDUCED PLASTICITY IN THE FROG <i>BOMBINA ORIENTALIS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 142-156. | 2.3  | 80        |
| 31 | SEXUAL PARTNERS FOR THE STRESSED: FACULTATIVE OUTCROSSING IN THE SELF-FERTILIZING NEMATODE <i>CAENORHABDITIS ELEGANS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 1473-1482.                         | 2.3  | 76        |
| 32 | Hierarchical Comparison of Genetic Variance-Covariance Matrices. II. Coastal-Inland Divergence in the Garter Snake, <i>Thamnophis elegans</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 1516.         | 2.3  | 74        |
| 33 | GENE INTERACTION AFFECTS THE ADDITIVE GENETIC VARIANCE IN SUBDIVIDED POPULATIONS WITH MIGRATION AND EXTINCTION. <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 1758-1769.                                    | 2.3  | 72        |
| 34 | GENETIC VARIATION FOR OUTCROSSING AMONG <i>CAENORHABDITIS ELEGANS</i> ISOLATES. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1300-1305.  | 2.3  | 71        |
| 35 | Waiting for a compensatory mutation: phase zero of the shifting-balance process. <i>Genetical Research</i> , 1996, 67, 271-283.  | 0.9  | 70        |
| 36 | Thermal preference of <i>Caenorhabditis elegans</i> : a null model and empirical tests. <i>Journal of Experimental Biology</i> , 2007, 210, 3107-3116.   | 1.7  | 70        |

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|----|---|-----|-----------|
| 37 | Evolution of Sarcomeric Myosin Heavy Chain Genes: Evidence from Fish. <i>Molecular Biology and Evolution</i> , 2004, 21, 1042-1056.   | 8.9 | 66        |
| 38 | Rapid Evolution of Phenotypic Plasticity and Shifting Thresholds of Genetic Assimilation in the Nematode <i>Caenorhabditis remanei</i> . <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 1103-1112.  | 1.8 | 66        |
| 39 | Evolutionary rates and centrality in the yeast gene regulatory network. <i>Genome Biology</i> , 2009, 10, R35.  | 9.6 | 64        |
| 40 | <i>Caenorhabditis elegans</i> as a platform for molecular quantitative genetics and the systems biology of natural variation. <i>Genetical Research</i> , 2010, 92, 331-348.  | 0.9 | 61        |
| 41 | Microfluidic Devices for Analysis of Spatial Orientation Behaviors in Semi-Restrained <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2011, 6, e25710.  | 2.5 | 61        |
| 42 | The exquisite corpse: a shifting view of the shifting balance. <i>Trends in Ecology and Evolution</i> , 2000, 15, 347-348.  | 8.7 | 59        |
| 43 | PERSISTENCE OF CHANGES IN THE GENETIC COVARIANCE MATRIX AFTER A BOTTLENECK. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 1968-1975.   | 2.3 | 57        |
| 44 | ALLELIC DIVERGENCE PRECEDES AND PROMOTES GENE DUPLICATION. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 881-892.  | 2.3 | 57        |
| 45 | Does thermoregulatory behavior maximize reproductive fitness of natural isolates of <i>Caenorhabditis elegans</i> ?. <i>BMC Evolutionary Biology</i> , 2011, 11, 157.   | 3.2 | 51        |
| 46 | Males, Outcrossing, and Sexual Selection in <i>Caenorhabditis</i> Nematodes. <i>Genetics</i> , 2019, 213, 27-57.  | 2.9 | 49        |
| 47 | Experimental Evolution Reveals Antagonistic Pleiotropy in Reproductive Timing but Not Life Span in <i>Caenorhabditis elegans</i> . <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2011, 66A, 1300-1308. | 3.6 | 47        |
| 48 | Natural and experimental evolution of sexual conflict within <i>Caenorhabditis</i> nematodes. <i>BMC Evolutionary Biology</i> , 2015, 15, 93.   | 3.2 | 47        |
| 49 | Beyond induced mutants: using worms to study natural variation in genetic pathways. <i>Trends in Genetics</i> , 2008, 24, 178-185.  | 6.7 | 46        |
| 50 | Genetic variation for outcrossing among <i>Caenorhabditis elegans</i> isolates. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1300-5.  | 2.3 | 46        |
| 51 | From complex traits to complex alleles. <i>Trends in Genetics</i> , 1999, 15, 6-8.  | 6.7 | 45        |
| 52 | The Population Genetics of Synthetic Lethals. <i>Genetics</i> , 1998, 150, 449-458.   | 2.9 | 44        |
| 53 | Auxin-Mediated Sterility Induction System for Longevity and Mating Studies in <i>Caenorhabditis elegans</i> . <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 2655-2662.   | 1.8 | 42        |
| 54 | Limits to Genomic Divergence Under Sexually Antagonistic Selection. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 3813-3824.   | 1.8 | 42        |

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|----|--|-----|-----------|
| 55 | FITNESS RECOVERY AND COMPENSATORY EVOLUTION IN NATURAL MUTANT LINES OF <i>C. ELEGANS</i> . Evolution; International Journal of Organic Evolution, 2011, 65, 2335-2344.   | 2.3 | 40        |
| 56 | Genomic Signatures of Sexual Conflict. Journal of Heredity, 2017, 108, 780-790.  | 2.4 | 40        |
| 57 | Testing hypotheses regarding the genetics of adaptation. Genetica, 2005, 123, 15-24.   | 1.1 | 39        |
| 58 | Behavioral Degradation Under Mutation Accumulation in <i>Caenorhabditis elegans</i> . Genetics, 2005, 170, 655-660.  | 2.9 | 38        |
| 59 | High Nucleotide Divergence in Developmental Regulatory Genes Contrasts With the Structural Elements of Olfactory Pathways in <i>Caenorhabditis</i> . Genetics, 2009, 181, 1387-1397.   | 2.9 | 37        |
| 60 | INDEPENDENT AXES OF GENETIC VARIATION AND PARALLEL EVOLUTIONARY DIVERGENCE OF OPERCLE BONE SHAPE IN THREESPINE STICKLEBACK. Evolution; International Journal of Organic Evolution, 2012, 66, 419-434.                          | 2.3 | 35        |
| 61 | Selective sweeps and parallel mutation in the adaptive recovery from deleterious mutation in <i>Caenorhabditis elegans</i> . Genome Research, 2010, 20, 1663-1671.   | 5.5 | 34        |
| 62 | EXPERIMENTAL EVOLUTION OF THE <i>CAENORHABDITIS ELEGANS</i> SEX DETERMINATION PATHWAY. Evolution; International Journal of Organic Evolution, 2012, 66, 82-93.   | 2.3 | 32        |
| 63 | Environmentally induced changes in correlated responses to selection reveal variable pleiotropy across a complex genetic network. Evolution; International Journal of Organic Evolution, 2015, 69, 1128-1142.                  | 2.3 | 30        |
| 64 | DESIGNING EXPERIMENTS TO MAXIMIZE THE POWER OF DETECTING CORRELATIONS. Evolution; International Journal of Organic Evolution, 1998, 52, 251-255.   | 2.3 | 29        |
| 65 | A TEST OF THE CONJECTURE THAT G-MATRICES ARE MORE STABLE THAN B-MATRICES. Evolution; International Journal of Organic Evolution, 2010, 64, 2601-2613.  | 2.3 | 29        |
| 66 | Daily temperature fluctuations unpredictably influence developmental rate and morphology at a critical early larval stage in a frog. BMC Ecology, 2013, 13, 18.  | 3.0 | 29        |
| 67 | The transgenerational effects of heat stress in the nematode <i>Caenorhabditis remanei</i> are negative and rapidly eliminated under direct selection for increased stress resistance in larvae. Genomics, 2014, 104, 438-446. | 2.9 | 29        |
| 68 | Intrinsic differences between males and females determine sex-specific consequences of inbreeding. BMC Evolutionary Biology, 2016, 16, 36.   | 3.2 | 29        |
| 69 | Genetic Dissection of Late-Life Fertility in <i>Caenorhabditis elegans</i> . Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2011, 66A, 842-854.  | 3.6 | 28        |
| 70 | Chromosome-Level Assembly of the <i>Caenorhabditis remanei</i> Genome Reveals Conserved Patterns of Nematode Genome Organization. Genetics, 2020, 214, 769-780.  | 2.9 | 28        |
| 71 | Duplication of floral regulatory genes in the Lamiales. American Journal of Botany, 2005, 92, 1284-1293.   | 1.7 | 27        |
| 72 | Relaxed Selection Among Duplicate Floral Regulatory Genes in Lamiales. Journal of Molecular Evolution, 2006, 63, 493-503.  | 1.8 | 27        |

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|----|--|-----|-----------|
| 73 | Hermaphrodite life history and the maintenance of partial selfing in experimental populations of <i>Caenorhabditis elegans</i> . <i>BMC Evolutionary Biology</i> , 2014, 14, 117.  | 3.2 | 27        |
| 74 | The Stress-Chip: A microfluidic platform for stress analysis in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2019, 14, e0216283.  | 2.5 | 27        |
| 75 | Automated lifespan determination across <i>Caenorhabditis</i> strains and species reveals assay-specific effects of chemical interventions. <i>GeroScience</i> , 2019, 41, 945-960.  | 4.6 | 27        |
| 76 | Gene Interaction Affects the Additive Genetic Variance in Subdivided Populations with Migration and Extinction. <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 1758.   | 2.3 | 26        |
| 77 | Coevolutionary interactions with parasites constrain the spread of self-fertilization into outcrossing host populations. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 2632-2639.                                 | 2.3 | 25        |
| 78 | MAINTENANCE OF POLYGENIC VARIATION VIA A MIGRATION-SELECTION BALANCE UNDER UNIFORM SELECTION. <i>Evolution; International Journal of Organic Evolution</i> , 1996, 50, 1334-1339.  | 2.3 | 23        |
| 79 | ECOLOGICAL AND DEVELOPMENTAL CONTEXT OF NATURAL SELECTION: MATERNAL EFFECTS AND THERMALLY INDUCED PLASTICITY IN THE FROG <i>BOMBINA ORIENTALIS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 142.           | 2.3 | 22        |
| 80 | GENETIC VARIATION FOR OUTCROSSING AMONG <i>CAENORHABDITIS ELEGANS</i> ISOLATES. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1300.   | 2.3 | 22        |
| 81 | Environmental and Evolutionary Drivers of the Modular Gene Regulatory Network Underlying Phenotypic Plasticity for Stress Resistance in the Nematode <i>Caenorhabditis remanei</i> . <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 969-982. | 1.8 | 22        |
| 82 | VARIATION IN PLEIOTROPY AND THE MUTATIONAL UNDERPINNINGS OF THE G-MATRIX. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 2655-2660.  | 2.3 | 21        |
| 83 | Selection against males in <i>Caenorhabditis elegans</i> under two mutational treatments. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 417-424.   | 2.6 | 21        |
| 84 | Field studies reveal a close relative of <i>C. elegans</i> thrives in the fresh figs of <i>Ficus septica</i> and disperses on its <i>Ceratosolen</i> pollinating wasps. <i>BMC Ecology</i> , 2018, 18, 26.                                   | 3.0 | 21        |
| 85 | Natural Variation for Lifespan and Stress Response in the Nematode <i>Caenorhabditis remanei</i> . <i>PLoS ONE</i> , 2013, 8, e58212.  | 2.5 | 21        |
| 86 | Peak Shifts and Polymorphism During Phase Three of Wright's Shifting- Balance Process. <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 1733.  | 2.3 | 20        |
| 87 | Expression Level Drives the Pattern of Selective Constraints along the Insulin/Tor Signal Transduction Pathway in <i>Caenorhabditis</i> . <i>Genome Biology and Evolution</i> , 2011, 3, 715-722.  | 2.5 | 20        |
| 88 | PERSISTENCE OF CHANGES IN THE GENETIC COVARIANCE MATRIX AFTER A BOTTLENECK. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 1968.   | 2.3 | 19        |
| 89 | Evaluating human autosomal loci for sexually antagonistic viability selection in two large biobanks. <i>Genetics</i> , 2021, 217, 1-10.  | 2.9 | 19        |
| 90 | Quantifying male and female pheromone-based mate choice in <i>Caenorhabditis</i> nematodes using a novel microfluidic technique. <i>PLoS ONE</i> , 2017, 12, e0189679.   | 2.5 | 17        |

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|-----|---|-----|-----------|
| 91  | Metformin treatment of diverse <i>Caenorhabditis</i> species reveals the importance of genetic background in longevity and healthspan extension outcomes. <i>Aging Cell</i> , 2022, 21, e13488.                                       | 6.7 | 17        |
| 92  | PEAK SHIFTS AND POLYMORPHISM DURING PHASE THREE OF WRIGHT'S SHIFTING-BALANCE PROCESS. <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 1733-1743.   | 2.3 | 15        |
| 93  | One perfect worm. <i>Trends in Genetics</i> , 2006, 22, 405-407.  | 6.7 | 15        |
| 94  | Fertility/longevity trade-offs under limiting-male conditions in mating populations of <i>Caenorhabditis elegans</i> . <i>Experimental Gerontology</i> , 2012, 47, 759-763.   | 2.8 | 14        |
| 95  | High-specificity detection of rare alleles with Paired-End Low Error Sequencing (PELE-Seq). <i>BMC Genomics</i> , 2016, 17, 464.  | 2.8 | 14        |
| 96  | Metagenome-Assembled Draft Genome Sequence of a Novel Microbial <i>Stenotrophomonas maltophilia</i> Strain Isolated from <i>Caenorhabditis remanei</i> Tissue. <i>Genome Announcements</i> , 2017, 5, .                               | 0.8 | 14        |
| 97  | Maintenance of Polygenic Variation Via a Migration-Selection Balance Under Uniform Selection. <i>Evolution; International Journal of Organic Evolution</i> , 1996, 50, 1334.  | 2.3 | 13        |
| 98  | Dramatic evolution of body length due to postembryonic changes in cell size in a newly discovered close relative of <i>Caenorhabditis elegans</i> . <i>Evolution Letters</i> , 2018, 2, 427-441.                                      | 3.3 | 13        |
| 99  | A large close relative of <i>C. elegans</i> is slow-developing but not long-lived. <i>BMC Evolutionary Biology</i> , 2019, 19, 74.  | 3.2 | 13        |
| 100 | Rapid Self-Selecting and Clone-Free Integration of Transgenes into Engineered CRISPR Safe Harbor Locations in <i>Caenorhabditis elegans</i> . <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 3775-3782.                              | 1.8 | 13        |
| 101 | ALLELIC DIVERGENCE PRECEDES AND PROMOTES GENE DUPLICATION. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 881.  | 2.3 | 12        |
| 102 | A Recent Global Selective Sweep on the <i>age-1</i> Phosphatidylinositol 3-OH Kinase Regulator of the Insulin-Like Signaling Pathway Within <i>Caenorhabditis remanei</i> . <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 1123-1133. | 1.8 | 12        |
| 103 | Purging Deleterious Mutations under Self Fertilization: Paradoxical Recovery in Fitness with Increasing Mutation Rate in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2010, 5, e14473.   | 2.5 | 11        |
| 104 | Accuracy and Power of the Likelihood Ratio Test for Comparing Evolutionary Rates Among Genes. <i>Journal of Molecular Evolution</i> , 2005, 60, 426-433.  | 1.8 | 10        |
| 105 | Rapid Gene Family Evolution of a Nematode Sperm Protein Despite Sequence Hyper-conservation. <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 353-362.  | 1.8 | 10        |
| 106 | Intervention Testing Program: the tyrosine kinase inhibitor imatinib mesylate does not extend lifespan in nematodes. <i>MicroPublication Biology</i> , 2019, 2019, .  | 0.1 | 9         |
| 107 | Intervention Testing Program: the creatine analog $\beta$ -guanidinopropionic acid does not extend lifespan in nematodes. <i>MicroPublication Biology</i> , 2020, 2020, .   | 0.1 | 9         |
| 108 | POWER AND POTENTIAL BIAS IN FIELD STUDIES OF NATURAL SELECTION. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 479.   | 2.3 | 8         |

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|-----|---|------|-----------|
| 109 | Functional constraint and divergence in the G protein family in <i>Caenorhabditis elegans</i> and <i>Caenorhabditis briggsae</i> . <i>Molecular Genetics and Genomics</i> , 2005, 273, 299-310.   | 2.1  | 8         |
| 110 | Standardized Protocols from the <i>Caenorhabditis</i> Intervention Testing Program 2013-2016: Conditions and Assays used for Quantifying the Development, Fertility and Lifespan of Hermaphroditic <i>Caenorhabditis</i> Strains. <i>Protocol Exchange</i> , 0, , . | 0.3  | 8         |
| 111 | Designing Experiments to Maximize the Power of Detecting Correlations. <i>Evolution; International Journal of Organic Evolution</i> , 1998, 52, 251.  | 2.3  | 7         |
| 112 | VARIATION IN PLEIOTROPY AND THE MUTATIONAL UNDERPINNINGS OF THE G-MATRIX. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 2655.  | 2.3  | 7         |
| 113 | Intervention Testing Program: the farnesoid X receptor agonist obeticholic acid does not robustly extend lifespan in nematodes. <i>MicroPublication Biology</i> , 2020, 2020, .   | 0.1  | 7         |
| 114 | The rise and fall of new mutations. <i>Trends in Ecology and Evolution</i> , 1997, 12, 466-468.   | 8.7  | 6         |
| 115 | Evolution: Five Heads Are Better Than One. <i>Current Biology</i> , 2016, 26, R283-R285.  | 3.9  | 6         |
| 116 | Self-fertilization sweeps up variation in the worm genome. <i>Nature Genetics</i> , 2012, 44, 237-238.  | 21.4 | 5         |
| 117 | Variance in Epistasis Links Gene Regulation and Evolutionary Rate in the Yeast Genetic Interaction Network. <i>Genome Biology and Evolution</i> , 2012, 4, 1080-1087.   | 2.5  | 4         |
| 118 | Cell Biology: Scaling and the Emergence of Evolutionary Cell Biology. <i>Current Biology</i> , 2015, 25, R223-R225.   | 3.9  | 4         |
| 119 | Complex pleiotropic genetic architecture of evolved heat stress and oxidative stress resistance in the nematode <i>Caenorhabditis remanei</i> . <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .   | 1.8  | 4         |
| 120 | Slow Recovery from Inbreeding Depression Generated by the Complex Genetic Architecture of Segregating Deleterious Mutations. <i>Molecular Biology and Evolution</i> , 2022, 39, .   | 8.9  | 4         |
| 121 | A simplified design for the <i>C. elegans</i> lifespan machine. <i>Journal of Biological Methods</i> , 2020, 7, e137.   | 0.6  | 4         |
| 122 | Genetic diversity estimates for the Intervention Testing Program screening panel.. <i>MicroPublication Biology</i> , 2022, 2022, .  | 0.1  | 4         |
| 123 | What maintains genetic variation in natural populations? A commentary on "The maintenance of genetic variability by mutation in a polygenic character with linked loci"™ by Russell Lande. <i>Genetical Research</i> , 2007, 89, 371-372.                           | 0.9  | 3         |
| 124 | Proteomic and evolutionary analyses of sperm activation identify uncharacterized genes in <i>Caenorhabditis</i> nematodes. <i>BMC Genomics</i> , 2018, 19, 593.   | 2.8  | 3         |
| 125 | Who shouldn't be your daddy. <i>Nature</i> , 2008, 451, 640-641.  | 27.8 | 2         |
| 126 | Comparative genomic analysis of upstream miRNA regulatory motifs in <i>Caenorhabditis</i> . <i>Rna</i> , 2016, 22, 968-978.   | 3.5  | 2         |



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|-----|---|-----|-----------|
| 127 | Intervention Testing Program: the herbicide diuron does not robustly extend lifespan in nematodes. MicroPublication Biology, 2021, 2021, .                  | 0.1 | 1         |
| 128 | Post-insemination selection dominates pre-insemination selection in driving rapid evolution of male competitive ability. PLoS Genetics, 2022, 18, e1010063. | 3.5 | 1         |
| 129 | Testing hypotheses regarding the genetics of adaptation. , 2005, , 15-24.   |     | 0         |
| 130 | A simplified design for the lifespan machine. Journal of Biological Methods, 2020, 7, e137.   | 0.6 | 0         |