

Peter L Tiffin

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

8,504
citations

53939

47
h-index

56606

87
g-index

114
all docs

114
docs citations

114
times ranked

12317
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Unraveling coevolutionary dynamics using ecological genomics. Trends in Genetics, 2022, 38, 1003-1012. | 2.9 | 4 |
| 2 | Comparative genomics reveals high rates of horizontal transfer and strong purifying selection on rhizobial symbiosis genes. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20201804. | 1.2 | 13 |
| 3 | Genomic structural variants constrain and facilitate adaptation in natural populations of <i>Theobroma cacao</i> , the chocolate tree. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 50 |
| 4 | Individual-based eco-evolutionary models for understanding adaptation in changing seas. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20212006. | 1.2 | 4 |
| 5 | Gene Expression Modularity Reveals Footprints of Polygenic Adaptation in <i>Theobroma cacao</i> . Molecular Biology and Evolution, 2020, 37, 110-123. | 3.5 | 22 |
| 6 | Context Dependence of Local Adaptation to Abiotic and Biotic Environments: A Quantitative and Qualitative Synthesis. American Naturalist, 2020, 195, 412-431. | 1.0 | 55 |
| 7 | Widely distributed variation in tolerance to <i>Phytophthora palmivora</i> in four genetic groups of cacao. Tree Genetics and Genomes, 2020, 16, 1. | 0.6 | 15 |
| 8 | Biased Gene Conversion Constrains Adaptation in <i>Arabidopsis thaliana</i> . Genetics, 2020, 215, 831-846. | 1.2 | 15 |
| 9 | Pleiotropy facilitates local adaptation to distant optima in common ragweed (<i>Ambrosia</i>) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50 | 1.5 | 30 |
| 10 | A Select and Resequencing Approach Reveals Strain-Specific Effects of <i>Medicago</i> Nodule-Specific PLAT-Domain Genes. Plant Physiology, 2020, 182, 463-471. | 2.3 | 13 |
| 11 | Does adaptation to historical climate shape plant responses to future rainfall patterns? A rainfall manipulation experiment with common ragweed. Oecologia, 2019, 190, 941-953. | 0.9 | 11 |
| 12 | Climate change is predicted to disrupt patterns of local adaptation in wild and cultivated maize. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190486. | 1.2 | 32 |
| 13 | Legacy of prior host and soil selection on rhizobial fitness in <i>planta</i> . Evolution; International Journal of Organic Evolution, 2019, 73, 2013-2023. | 1.1 | 19 |
| 14 | Species distribution models throughout the invasion history of Palmer amaranth predict regions at risk of future invasion and reveal challenges with modeling rapidly shifting geographic ranges. Scientific Reports, 2019, 9, 2426. | 1.6 | 60 |
| 15 | Sex-biased gene expression in flowers, but not leaves, reveals secondary sexual dimorphism in <i>Populus balsamifera</i> . New Phytologist, 2019, 221, 527-539. | 3.5 | 38 |
| 16 | Select and resequence reveals relative fitness of bacteria in symbiotic and free-living environments. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2425-2430. | 3.3 | 88 |
| 17 | Effects of Gene Action, Marker Density, and Timing of Selection on the Performance of Landscape Genomic Scans of Local Adaptation. Journal of Heredity, 2018, 109, 16-28. | 1.0 | 17 |
| 18 | Genome-Wide Association Analyses in the Model Rhizobium <i>Ensifer meliloti</i> . MSphere, 2018, 3, . | 1.3 | 26 |

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|----|---|-----|-----------|
| 19 | Little plant, big city: a test of adaptation to urban environments in common ragweed (<i>Ambrosia</i>) Tj ETQq1 1 0.784314 rgBT /Over | 1.2 | 50 |
| 20 | The complete replicons of 16 <i>Ensifer meliloti</i> strains offer insights into intra- and inter-replicon gene transfer, transposon-associated loci, and repeat elements. <i>Microbial Genomics</i> , 2018, 4, . | 1.0 | 21 |
| 21 | Validating Genome-Wide Association Candidates Controlling Quantitative Variation in Nodulation. <i>Plant Physiology</i> , 2017, 173, 921-931. | 2.3 | 71 |
| 22 | A Guide to Genome-Wide Association Mapping in Plants. <i>Current Protocols in Plant Biology</i> , 2017, 2, 22-38. | 2.8 | 75 |
| 23 | Exploring structural variation and gene family architecture with De Novo assemblies of 15 <i>Medicago</i> genomes. <i>BMC Genomics</i> , 2017, 18, 261. | 1.2 | 87 |
| 24 | Sanctions, Partner Recognition, and Variation in Mutualism. <i>American Naturalist</i> , 2017, 190, 491-505. | 1.0 | 10 |
| 25 | Transcriptomic basis of genome by genome variation in a legume-rhizobia mutualism. <i>Molecular Ecology</i> , 2017, 26, 6122-6135. | 2.0 | 40 |
| 26 | Living in the city: urban environments shape the evolution of a native annual plant. <i>Global Change Biology</i> , 2017, 23, 2082-2089. | 4.2 | 52 |
| 27 | Strategies for optimizing BioNano and Dovetail explored through a second reference quality assembly for the legume model, <i>Medicago truncatula</i> . <i>BMC Genomics</i> , 2017, 18, 578. | 1.2 | 54 |
| 28 | Hybrid assembly with long and short reads improves discovery of gene family expansions. <i>BMC Genomics</i> , 2017, 18, 541. | 1.2 | 51 |
| 29 | ODG: Omics database generator - a tool for generating, querying, and analyzing multi-omics comparative databases to facilitate biological understanding. <i>BMC Bioinformatics</i> , 2017, 18, 367. | 1.2 | 13 |
| 30 | The Role of Deleterious Substitutions in Crop Genomes. <i>Molecular Biology and Evolution</i> , 2016, 33, 2307-2317. | 3.5 | 83 |
| 31 | Adaptation to climate through flowering phenology: a case study in <i>Medicago truncatula</i> . <i>Molecular Ecology</i> , 2016, 25, 3397-3415. | 2.0 | 36 |
| 32 | Relocation, high-latitude warming and host genetic identity shape the foliar fungal microbiome of poplars. <i>Molecular Ecology</i> , 2015, 24, 235-248. | 2.0 | 125 |
| 33 | Potential of Association Mapping and Genomic Selection to Explore PI 88788 Derived Soybean Cyst Nematode Resistance. <i>Plant Genome</i> , 2014, 7, plantgenome2013.11.0039. | 1.6 | 63 |
| 34 | Selection on Horizontally Transferred and Duplicated Genes in <i>Sinorhizobium</i> (<i>Ensifer</i>), the Root-Nodule Symbionts of <i>Medicago</i> . <i>Genome Biology and Evolution</i> , 2014, 6, 1199-1209. | 1.1 | 17 |
| 35 | Local adaptation and range boundary formation in response to complex environmental gradients across the geographical range of <i>Clarkia xantiana</i> ssp. <i>xantiana</i> . <i>Journal of Ecology</i> , 2014, 102, 95-107. | 1.9 | 49 |
| 36 | High-density genome-wide association mapping implicates an <i>F</i> -box encoding gene in <i>Medicago truncatula</i> resistance to <i>Aphanomyces euteiches</i> . <i>New Phytologist</i> , 2014, 201, 1328-1342. | 3.5 | 86 |

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|----|---|------|-----------|
| 37 | Advances and limits of using population genetics to understand local adaptation. <i>Trends in Ecology and Evolution</i> , 2014, 29, 673-680. | 4.2 | 329 |
| 38 | Indirect effects drive evolutionary responses to global change. <i>New Phytologist</i> , 2014, 201, 335-343. | 3.5 | 31 |
| 39 | Timing for success: expression phenotype and local adaptation related to latitude in the boreal forest tree, <i>Populus balsamifera</i> . <i>Tree Genetics and Genomes</i> , 2014, 10, 911-922. | 0.6 | 7 |
| 40 | Genomic Signature of Adaptation to Climate in <i>Medicago truncatula</i> . <i>Genetics</i> , 2014, 196, 1263-1275. | 1.2 | 160 |
| 41 | Comparative genomics of the core and accessory genomes of 48 <i>Sinorhizobium</i> strains comprising five genospecies. <i>Genome Biology</i> , 2013, 14, R17. | 13.9 | 164 |
| 42 | Selection, genome-wide fitness effects and evolutionary rates in the model legume <i>Medicago truncatula</i> . <i>Molecular Ecology</i> , 2013, 22, 3525-3538. | 2.0 | 54 |
| 43 | Phylogenetic Signal Variation in the Genomes of <i>Medicago</i> (Fabaceae). <i>Systematic Biology</i> , 2013, 62, 424-438. | 2.7 | 51 |
| 44 | The adaptive potential of <i>Populus balsamifera</i> to phenology requirements in a warmer global climate. <i>Molecular Ecology</i> , 2013, 22, 1214-1230. | 2.0 | 91 |
| 45 | Insights from population genetics for range limits of a widely distributed native plant. <i>American Journal of Botany</i> , 2013, 100, 744-753. | 0.8 | 12 |
| 46 | Estimating heritability using genomic data. <i>Methods in Ecology and Evolution</i> , 2013, 4, 1151-1158. | 2.2 | 54 |
| 47 | Epigenetic and Genetic Influences on DNA Methylation Variation in Maize Populations. <i>Plant Cell</i> , 2013, 25, 2783-2797. | 3.1 | 227 |
| 48 | Host Genotype Shapes the Foliar Fungal Microbiome of Balsam Poplar (<i>Populus balsamifera</i>). <i>PLoS ONE</i> , 2013, 8, e53987. | 1.1 | 213 |
| 49 | Candidate Genes and Genetic Architecture of Symbiotic and Agronomic Traits Revealed by Whole-Genome, Sequence-Based Association Genetics in <i>Medicago truncatula</i> . <i>PLoS ONE</i> , 2013, 8, e65688. | 1.1 | 156 |
| 50 | Reshaping of the maize transcriptome by domestication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11878-11883. | 3.3 | 154 |
| 51 | Fine-Scale Population Recombination Rates, Hotspots, and Correlates of Recombination in the <i>Medicago truncatula</i> Genome. <i>Genome Biology and Evolution</i> , 2012, 4, 726-737. | 1.1 | 62 |
| 52 | Reduced pollinator service and elevated pollen limitation at the geographic range limit of an annual plant. <i>Ecology</i> , 2012, 93, 1036-1048. | 1.5 | 119 |
| 53 | Pleistocene Speciation in the Genus <i>Populus</i> (Salicaceae). <i>Systematic Biology</i> , 2012, 61, 401. | 2.7 | 100 |
| 54 | Role of climate and competitors in limiting fitness across range edges of an annual plant. <i>Ecology</i> , 2012, 93, 1604-1613. | 1.5 | 81 |

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|----|--|-----|-----------|
| 55 | Local Adaptation in the Flowering-Time Gene Network of Balsam Poplar, <i>Populus balsamifera</i> L.. <i>Molecular Biology and Evolution</i> , 2012, 29, 3143-3152. | 3.5 | 106 |
| 56 | Comparative population genomics of maize domestication and improvement. <i>Nature Genetics</i> , 2012, 44, 808-811. | 9.4 | 816 |
| 57 | Population Genomics of the Facultatively Mutualistic Bacteria <i>Sinorhizobium meliloti</i> and <i>S. medicae</i> . <i>PLoS Genetics</i> , 2012, 8, e1002868. | 1.5 | 69 |
| 58 | Interactions between Soil Habitat and Geographic Range Location Affect Plant Fitness. <i>PLoS ONE</i> , 2012, 7, e36015. | 1.1 | 28 |
| 59 | Whole-genome nucleotide diversity, recombination, and linkage disequilibrium in the model legume <i>Medicago truncatula</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E864-70. | 3.3 | 220 |
| 60 | Population Genetics and the Evolution of Geographic Range Limits in an Annual Plant. <i>American Naturalist</i> , 2011, 178, S44-S57. | 1.0 | 44 |
| 61 | Climate-driven local adaptation of ecophysiology and phenology in balsam poplar, <i>Populus balsamifera</i> L. (<i>Salicaceae</i>). <i>American Journal of Botany</i> , 2011, 98, 99-108. | 0.8 | 103 |
| 62 | Local Selection Across a Latitudinal Gradient Shapes Nucleotide Diversity in Balsam Poplar, <i>Populus balsamifera</i> L. <i>Genetics</i> , 2011, 188, 941-952. | 1.2 | 47 |
| 63 | Nucleotide diversity and linkage disequilibrium in balsam poplar (<i>Populus balsamifera</i>). <i>New Phytologist</i> , 2010, 186, 526-536. | 3.5 | 70 |
| 64 | Plant functional type classifications in tropical dry forests in Costa Rica: leaf habit versus taxonomic approaches. <i>Functional Ecology</i> , 2010, 24, 927-936. | 1.7 | 112 |
| 65 | Genomic diversity, population structure, and migration following rapid range expansion in the Balsam Poplar, <i>Populus balsamifera</i> . <i>Molecular Ecology</i> , 2010, 19, 1212-1226. | 2.0 | 101 |
| 66 | Pervasive gene content variation and copy number variation in maize and its undomesticated progenitor. <i>Genome Research</i> , 2010, 20, 1689-1699. | 2.4 | 309 |
| 67 | Heterosis Is Prevalent for Multiple Traits in Diverse Maize Germplasm. <i>PLoS ONE</i> , 2009, 4, e7433. | 1.1 | 173 |
| 68 | Elevated carbon dioxide concentrations indirectly affect plant fitness by altering plant tolerance to herbivory. <i>Oecologia</i> , 2009, 161, 401-410. | 0.9 | 24 |
| 69 | STABILIZING MECHANISMS IN A LEGUME-RHIZOBIUM MUTUALISM. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 652-662. | 1.1 | 174 |
| 70 | Selective histories of poplar protease inhibitors: elevated polymorphism, purifying selection, and positive selection driving divergence of recent duplicates. <i>New Phytologist</i> , 2009, 183, 740-750. | 3.5 | 29 |
| 71 | Transgenerational effects of global environmental change: long-term CO ₂ and nitrogen treatments influence offspring growth response to elevated CO ₂ . <i>Oecologia</i> , 2008, 158, 141-150. | 0.9 | 41 |
| 72 | GEOGRAPHIC VARIATION IN ADAPTATION AT THE MOLECULAR LEVEL: A CASE STUDY OF PLANT IMMUNITY GENES. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 3069-3081. | 1.1 | 37 |

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|----|---|-----|-----------|
| 73 | Evolution in ecological field experiments: implications for effect size. <i>Ecology Letters</i> , 2008, 11, 199-207. | 3.0 | 66 |
| 74 | The quest for adaptive evolution: a theoretical challenge in a maze of data. <i>Current Opinion in Plant Biology</i> , 2008, 11, 110-115. | 3.5 | 16 |
| 75 | DIRECT AND INDIRECT EFFECTS OF CO ₂ , NITROGEN, AND COMMUNITY DIVERSITY ON PLANT-ENEMY INTERACTIONS. <i>Ecology</i> , 2008, 89, 226-236. | 1.5 | 28 |
| 76 | Context dependence in the coevolution of plant and rhizobial mutualists. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 1905-1912. | 1.2 | 209 |
| 77 | Population Structure and Its Effects on Patterns of Nucleotide Polymorphism in Teosinte (<i>Zea mays</i>) Tj ETQq1 1 0.784314 rgBT /Over 1.2 55 | 1.2 | 55 |
| 78 | Sequence diversity and haplotype associations with phenotypic responses to crowding: GIGANTEA affects fruit set in <i>Arabidopsis thaliana</i> . <i>Molecular Ecology</i> , 2007, 16, 3050-3062. | 2.0 | 21 |
| 79 | Strong ecological but weak evolutionary effects of elevated CO ₂ on a recombinant inbred population of <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2007, 175, 351-362. | 3.5 | 37 |
| 80 | An integrated approach for the comparative analysis of a multigene family: The nicotianamine synthase genes of barley. <i>Functional and Integrative Genomics</i> , 2007, 7, 169-179. | 1.4 | 10 |
| 81 | Molecular evolution of plant immune system genes. <i>Trends in Genetics</i> , 2006, 22, 662-670. | 2.9 | 111 |
| 82 | Genetic Diversity and the Evolutionary History of Plant Immunity Genes in Two Species of <i>Zea</i> . <i>Molecular Biology and Evolution</i> , 2005, 22, 2480-2490. | 3.5 | 31 |
| 83 | Comparative Evolutionary Histories of Chlorinase Genes in the Genus <i>Zea</i> and Family Poaceae Sequence data from this article have been deposited with the EMBL/GenBank Data Libraries under accession nos. AY532721, AY532722, AY532723, AY532724, AY532725, AY532726, AY532727, AY532728, AY532729, AY532730, AY532731, AY532732, AY532733, AY532734, AY532735, AY532736, AY532737, AY532738, AY532739, AY532740, AY532741, AY532742, AY532743, AY532744, AY532745, AY532746, AY532747, AY532748, AY532749, AY532750, AY532751, AY532752, AY532753, AY532754, AY532755, AY532756, AY532757, AY532758, AY532759, AY532760, AY532761, AY532762, AY532763, AY532764, AY532765, AY532766, AY532767, AY532768, AY532769, AY532770, AY532771, AY532772, AY532773, AY532774, AY532775, AY532776, AY532777, AY532778, AY532779, AY532780, AY532781, AY532782, AY532783, AY532784, AY532785, AY532786, AY532787, AY532788, AY532789, AY532790, AY532791, AY532792, AY532793, AY532794, AY532795, AY532796, AY532797, AY532798, AY532799, AY532800, AY532801, AY532802, AY532803, AY532804, AY532805, AY532806, AY532807, AY532808, AY532809, AY532810, AY532811, AY532812, AY532813, AY532814, AY532815, AY532816, AY532817, AY532818, AY532819, AY532820, 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