

# Jerome Goudet

## List of Publications by Citations

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105  
papers

28,435  
citations

41  
h-index

118  
g-index

118  
ext. papers

32,625  
ext. citations

4.9  
avg, IF

7.54  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 105 | Detecting the number of clusters of individuals using the software STRUCTURE: a simulation study. <i>Molecular Ecology</i> , <b>2005</b> , 14, 2611-20   | 5.7  | 14521     |
| 104 | FSTAT (Version 1.2): A Computer Program to Calculate F-Statistics. <i>Journal of Heredity</i> , <b>1995</b> , 86, 485-486  | 6.4  | 6267      |
| 103 | hierfstat, a package for r to compute and test hierarchical F-statistics. <i>Molecular Ecology Notes</i> , <b>2005</b> , 5, 184-186  |      | 1169      |
| 102 | Testing differentiation in diploid populations. <i>Genetics</i> , <b>1996</b> , 144, 1933-40   | 4    | 981       |
| 101 | Tests for sex-biased dispersal using bi-parentally inherited genetic markers. <i>Molecular Ecology</i> , <b>2002</b> , 11, 1103-14   | 5.7  | 396       |
| 100 | Global invasion history of the fire ant <i>Solenopsis invicta</i> . <i>Science</i> , <b>2011</b> , 331, 1066-8   | 33.3 | 291       |
| 99  | Female-biased dispersal in the monogamous mammal <i>Crocodyra russula</i> : evidence from field data and microsatellite patterns. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>1997</b> , 264, 127-32                             | 4.4  | 285       |
| 98  | Reliable selfing rate estimates from imperfect population genetic data. <i>Molecular Ecology</i> , <b>2007</b> , 16, 2474-87   | 5.7  | 280       |
| 97  | Microsatellites can be misleading: an empirical and simulation study. <i>Evolution; International Journal of Organic Evolution</i> , <b>2000</b> , 54, 1414-22   | 3.8  | 239       |
| 96  | Genetic differentiation of continental and island populations of <i>Bombus terrestris</i> (Hymenoptera: Apidae) in Europe. <i>Molecular Ecology</i> , <b>1996</b> , 5, 19-31   | 5.7  | 239       |
| 95  | Sex-biased dispersal in a migratory bat: a characterization using sex-specific demographic parameters. <i>Evolution; International Journal of Organic Evolution</i> , <b>2001</b> , 55, 635-40   | 3.8  | 222       |
| 94  | Going the distance: human population genetics in a clinal world. <i>Trends in Genetics</i> , <b>2007</b> , 23, 432-9   | 8.5  | 182       |
| 93  | High genetic variability and low local diversity in a population of arbuscular mycorrhizal fungi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 2369-74                                    | 11.5 | 167       |
| 92  | Phosphorus acquisition efficiency in arbuscular mycorrhizal maize is correlated with the abundance of root-external hyphae and the accumulation of transcripts encoding PHT1 phosphate transporters. <i>New Phytologist</i> , <b>2017</b> , 214, 632-643 | 9.8  | 144       |
| 91  | Genetic Differentiation in <i>Silene dioica</i> Metapopulations: Estimation of Spatiotemporal Effects in a Successional Plant Species. <i>American Naturalist</i> , <b>1997</b> , 149, 507-526   | 3.7  | 144       |
| 90  | Statistical properties of population differentiation estimators under stepwise mutation in a finite island model. <i>Molecular Ecology</i> , <b>2002</b> , 11, 771-83  | 5.7  | 140       |
| 89  | Genomic Evidence for Adaptive Inversion Clines in <i>Drosophila melanogaster</i> . <i>Molecular Biology and Evolution</i> , <b>2016</b> , 33, 1317-36  | 8.3  | 99        |

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|----|---|-----|----|
| 88 | quantiNemo: an individual-based program to simulate quantitative traits with explicit genetic architecture in a dynamic metapopulation. <i>Bioinformatics</i> , <b>2008</b> , 24, 1552-3  | 7.2 | 93 |
| 87 | Mapping Bias Overestimates Reference Allele Frequencies at the HLA Genes in the 1000 Genomes Project Phase I Data. <i>G3: Genes, Genomes, Genetics</i> , <b>2015</b> , 5, 931-41  | 3.2 | 92 |
| 86 | MICROSATELLITES REVEAL HIGH POPULATION VISCOSITY AND LIMITED DISPERSAL IN THE ANT FORMICA PARALUGUBRIS. <i>Evolution; International Journal of Organic Evolution</i> , <b>1997</b> , 51, 475-482                                  | 3.8 | 92 |
| 85 | The effects of dominance, regular inbreeding and sampling design on Q(ST), an estimator of population differentiation for quantitative traits. <i>Genetics</i> , <b>2006</b> , 172, 1337-47                                       | 4   | 90 |
| 84 | Local adaptation maintains clinal variation in melanin-based coloration of European barn owls ( <i>Tyto alba</i> ). <i>Evolution; International Journal of Organic Evolution</i> , <b>2010</b> , 64, 1944-54                      | 3.8 | 87 |
| 83 | Soil fungal communities of grasslands are environmentally structured at a regional scale in the Alps. <i>Molecular Ecology</i> , <b>2014</b> , 23, 4274-90  | 5.7 | 85 |
| 82 | Genetic basis of adaptation in <i>Arabidopsis thaliana</i> : local adaptation at the seed dormancy QTL DOG1. <i>Evolution; International Journal of Organic Evolution</i> , <b>2012</b> , 66, 2287-302                            | 3.8 | 79 |
| 81 | Local adaptation and matching habitat choice in female barn owls with respect to melanin coloration. <i>Journal of Evolutionary Biology</i> , <b>2012</b> , 25, 103-14  | 2.3 | 65 |
| 80 | Hierarchical analyses of genetic differentiation in a hybrid zone of <i>Sorex araneus</i> (Insectivora: Soricidae). <i>Molecular Ecology</i> , <b>1999</b> , 8, 419-431   | 5.7 | 62 |
| 79 | A step-by-step tutorial to use HierFstat to analyse populations hierarchically structured at multiple levels. <i>Infection, Genetics and Evolution</i> , <b>2007</b> , 7, 731-5   | 4.5 | 57 |
| 78 | Similarity in food cleaning techniques within matrilineal groups in wild vervet monkeys. <i>PLoS ONE</i> , <b>2012</b> , 7, e35694  | 3.4 | 55 |
| 77 | Microsatellite conservation, polymorphism, and GC content in shrews of the genus <i>Sorex</i> (Insectivora, Mammalia). <i>Molecular Biology and Evolution</i> , <b>1998</b> , 15, 473-5   | 8.3 | 55 |
| 76 | Typing <i>Candida albicans</i> oral isolates from human immunodeficiency virus-infected patients by multilocus enzyme electrophoresis and DNA fingerprinting. <i>Journal of Clinical Microbiology</i> , <b>1996</b> , 34, 1235-48 | 9.7 | 54 |
| 75 | Population-specific FST values for forensic STR markers: A worldwide survey. <i>Forensic Science International: Genetics</i> , <b>2016</b> , 23, 91-100   | 4.3 | 52 |
| 74 | Microsatellites Reveal High Population Viscosity and Limited Dispersal in the Ant <i>Formica paralugubris</i> . <i>Evolution; International Journal of Organic Evolution</i> , <b>1997</b> , 51, 475                              | 3.8 | 52 |
| 73 | Geographical and altitudinal population genetic structure of two dung fly species with contrasting mobility and temperature preference. <i>Heredity</i> , <b>2002</b> , 89, 99-106  | 3.6 | 52 |
| 72 | A Unified Characterization of Population Structure and Relatedness. <i>Genetics</i> , <b>2017</b> , 206, 2085-2103  | 4   | 49 |
| 71 | The additive genetic variance after bottlenecks is affected by the number of loci involved in epistatic interactions. <i>Evolution; International Journal of Organic Evolution</i> , <b>2003</b> , 57, 706-16                     | 3.8 | 49 |

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|----|--|------|----|
| 70 | Parallel changes in genetic diversity and species diversity following a natural disturbance. <i>Molecular Ecology</i> , <b>2009</b> , 18, 1137-44  | 5.7  | 48 |
| 69 | Multivariate QST-FST comparisons: a neutrality test for the evolution of the g matrix in structured populations. <i>Genetics</i> , <b>2008</b> , 180, 2135-49                                    | 4    | 48 |
| 68 | On the transition of genetic differentiation from isolation to panmixia: what we can learn from GST and D. <i>Theoretical Population Biology</i> , <b>2014</b> , 93, 75-84                       | 1.2  | 45 |
| 67 | Reduced genetic diversity, increased isolation and multiple introductions of invasive giant hogweed in the western Swiss Alps. <i>Molecular Ecology</i> , <b>2009</b> , 18, 2819-31              | 5.7  | 45 |
| 66 | EVOLUTIONARY IMPLICATIONS OF A HIGH SELFING RATE IN THE FRESHWATER SNAIL LYMNAEA TRUNCATULA. <i>Evolution; International Journal of Organic Evolution</i> , <b>2003</b> , 57, 2303-2314          | 3.8  | 43 |
| 65 | Do riverine barriers, history or introgression shape the genetic structuring of a common shrew ( <i>Sorex araneus</i> ) population?. <i>Heredity</i> , <b>1999</b> , 83 (Pt 2), 155-61           | 3.6  | 42 |
| 64 | EVOLUTIONARY IMPLICATIONS OF A HIGH SELFING RATE IN THE FRESHWATER SNAIL LYMNAEA TRUNCATULA. <i>Evolution; International Journal of Organic Evolution</i> , <b>2003</b> , 57, 2303               | 3.8  | 41 |
| 63 | Restricted gene flow and subpopulation differentiation in <i>Silene dioica</i> . <i>Heredity</i> , <b>1998</b> , 80, 715-723   | 3.6  | 39 |
| 62 | Fine-scale spatial genetic structure and gene dispersal in <i>Silene latifolia</i> . <i>Heredity</i> , <b>2011</b> , 106, 13-24  | 3.6  | 38 |
| 61 | Under neutrality, Q(ST) <i>Genetics</i> , <b>2007</b> , 176, 1371-4  | 4    | 38 |
| 60 | Ecology and life history affect different aspects of the population structure of 27 high-alpine plants. <i>Molecular Ecology</i> , <b>2011</b> , 20, 3144-55                                     | 5.7  | 35 |
| 59 | Ecological components and evolution of selfing in the freshwater snail <i>Galba truncatula</i> . <i>Journal of Evolutionary Biology</i> , <b>2005</b> , 18, 358-70                               | 2.3  | 35 |
| 58 | How accurate is the current picture of human genetic variation?. <i>Heredity</i> , <b>2009</b> , 102, 120-6  | 3.6  | 34 |
| 57 | The correlation between inbreeding and fitness: does allele size matter?. <i>Trends in Ecology and Evolution</i> , <b>2002</b> , 17, 201-202   | 10.9 | 34 |
| 56 | How to estimate kinship. <i>Molecular Ecology</i> , <b>2018</b> , 27, 4121-4135  | 5.7  | 31 |
| 55 | Experimental evidence of inbreeding avoidance in the hermaphroditic snail <i>Physa acuta</i> . <i>Evolutionary Ecology</i> , <b>2006</b> , 20, 395-406   | 1.8  | 31 |
| 54 | Microsatellites in the hermaphroditic snail, <i>Lymnaea truncatula</i> , intermediate host of the liver fluke, <i>Fasciola hepatica</i> . <i>Molecular Ecology</i> , <b>2000</b> , 9, 1662-4     | 5.7  | 31 |
| 53 | BREEDING SYSTEM AND GENETIC VARIANCE IN THE MONOGAMOUS, SEMI-SOCIAL SHREW, <i>CROCIDURA RUSSULA</i> . <i>Evolution; International Journal of Organic Evolution</i> , <b>1998</b> , 52, 1230-1235 | 3.8  | 31 |

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|----|---|-----|----|
| 52 | Plant species distributions along environmental gradients: do belowground interactions with fungi matter?. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 500   | 6.2 | 29 |
| 51 | Mites as biological tags of their hosts. <i>Molecular Ecology</i> , <b>2010</b> , 19, 2770-8  | 5.7 | 29 |
| 50 | Broad-Scale Genetic Diversity of Cannabis for Forensic Applications. <i>PLoS ONE</i> , <b>2017</b> , 12, e0170522   | 3.7 | 28 |
| 49 | Genetic structure of a linear population of <i>Beta vulgaris</i> ssp. <i>maritima</i> (sea beet) revealed by isozyme and RFLP analysis. <i>Heredity</i> , <b>1996</b> , 76, 111-117   | 3.6 | 28 |
| 48 | Inferring recent migration rates from individual genotypes. <i>Molecular Ecology</i> , <b>2009</b> , 18, 1048-60  | 5.7 | 27 |
| 47 | High quantitative and no molecular differentiation of a freshwater snail ( <i>Galba truncatula</i> ) between temporary and permanent water habitats. <i>Molecular Ecology</i> , <b>2007</b> , 16, 3484-96                                 | 5.7 | 27 |
| 46 | Variation in the intensity of inbreeding depression among successive life-cycle stages and generations in gynodioecious <i>Silene vulgaris</i> (Caryophyllaceae). <i>Journal of Evolutionary Biology</i> , <b>2006</b> , 19, 1995-2005    | 2.3 | 25 |
| 45 | Study of Gene Flow Through a Hybrid Zone in the Common Shrew ( <i>Sorex Araneus</i> ) Using Microsatellites. <i>Hereditas</i> , <b>2004</b> , 125, 159-168  | 2.4 | 25 |
| 44 | An Improved Procedure for Testing the Effects of Key Innovations on Rate of Speciation. <i>American Naturalist</i> , <b>1999</b> , 153, 549-555   | 3.7 | 24 |
| 43 | Evolution in heterogeneous populations: from migration models to fixation probabilities. <i>Theoretical Population Biology</i> , <b>2010</b> , 78, 250-8  | 1.2 | 23 |
| 42 | Evolutionary aspects of population structure for molecular and quantitative traits in the freshwater snail <i>Radix balthica</i> . <i>Journal of Evolutionary Biology</i> , <b>2006</b> , 19, 1071-82                                     | 2.3 | 23 |
| 41 | Breeding System and Genetic Variance in the Monogamous, Semi-Social Shrew, <i>Crocidura russula</i> . <i>Evolution; International Journal of Organic Evolution</i> , <b>1998</b> , 52, 1230   | 3.8 | 23 |
| 40 | Peak and persistent excess of genetic diversity following an abrupt migration increase. <i>Genetics</i> , <b>2013</b> , 193, 953-71   | 4   | 22 |
| 39 | Correlated evolution of mating strategy and inbreeding depression within and among populations of the hermaphroditic snail <i>Physa acuta</i> . <i>Evolution; International Journal of Organic Evolution</i> , <b>2009</b> , 63, 2790-804 | 3.8 | 22 |
| 38 | Effects of selection and drift on G matrix evolution in a heterogeneous environment: a multivariate Qst-Fst Test with the freshwater snail <i>Galba truncatula</i> . <i>Genetics</i> , <b>2008</b> , 180, 2151-61                         | 4   | 22 |
| 37 | Inbreeding effects on progeny sex ratio and gender variation in the gynodioecious <i>Silene vulgaris</i> (Caryophyllaceae). <i>New Phytologist</i> , <b>2006</b> , 172, 763-73  | 9.8 | 19 |
| 36 | Natural selection in a postglacial range expansion: the case of the colour cline in the European barn owl. <i>Molecular Ecology</i> , <b>2014</b> , 23, 5508-23   | 5.7 | 18 |
| 35 | MICROSATELLITES CAN BE MISLEADING: AN EMPIRICAL AND SIMULATION STUDY. <i>Evolution; International Journal of Organic Evolution</i> , <b>2000</b> , 54, 1414   | 3.8 | 18 |

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| 34 | The genetic basis of color-related local adaptation in a ring-like colonization around the Mediterranean. <i>Evolution; International Journal of Organic Evolution</i> , <b>2016</b> , 70, 140-53          | 3.8 | 18 |
| 33 | Genetic isolation of insular populations of the Maghrebian bat, <i>Myotis punicus</i> , in the Mediterranean Basin. <i>Journal of Biogeography</i> , <b>2010</b> , 37, 1557                                | 4.1 | 17 |
| 32 | How a haemosporidian parasite of bats gets around: the genetic structure of a parasite, vector and host compared. <i>Molecular Ecology</i> , <b>2015</b> , 24, 926-40                                      | 5.7 | 16 |
| 31 | The Effect of Balancing Selection on Population Differentiation: A Study with HLA Genes. <i>G3: Genes, Genomes, Genetics</i> , <b>2018</b> , 8, 2805-2815  | 3.2 | 16 |
| 30 | Proximity-dependent pollen performance in <i>Silene vulgaris</i> . <i>Annals of Botany</i> , <b>2006</b> , 98, 431-7   | 4.1 | 16 |
| 29 | Rate of gene sequence evolution and species diversification in flowering plants: a reevaluation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>1998</b> , 265, 603-607               | 4.4 | 16 |
| 28 | Reconstructing the demographic history of divergence between European river and brook lampreys using approximate Bayesian computations. <i>PeerJ</i> , <b>2016</b> , 4, e1910                              | 3.1 | 16 |
| 27 | Density-based hierarchical clustering of pyro-sequences on a large scale--the case of fungal ITS1. <i>Bioinformatics</i> , <b>2013</b> , 29, 1268-74   | 7.2 | 14 |
| 26 | The Rocky Mountains as a dispersal barrier between barn owl ( <i>Tyto alba</i> ) populations in North America. <i>Journal of Biogeography</i> , <b>2018</b> , 45, 1288-1300                                | 4.1 | 13 |
| 25 | Sex-antagonistic genes, XY recombination and feminized Y chromosomes. <i>Journal of Evolutionary Biology</i> , <b>2018</b> , 31, 416-427   | 2.3 | 13 |
| 24 | apex: phylogenetics with multiple genes. <i>Molecular Ecology Resources</i> , <b>2017</b> , 17, 19-26  | 8.4 | 13 |
| 23 | Effect of mating history on gender preference in the hermaphroditic snail <i>Physa acuta</i> . <i>Animal Behaviour</i> , <b>2007</b> , 74, 1455-1461   | 2.8 | 13 |
| 22 | Isolation and characterization of highly polymorphic microsatellite loci in the bladder campion, <i>Silene vulgaris</i> (Caryophyllaceae). <i>Molecular Ecology Notes</i> , <b>2003</b> , 3, 358-359       |     | 13 |
| 21 | Plants and tortoises: mutations in the Arabidopsis jasmonate pathway increase feeding in a vertebrate herbivore. <i>Molecular Ecology</i> , <b>2012</b> , 21, 2534-41                                      | 5.7 | 11 |
| 20 | Linking genomics and population genetics with R. <i>Molecular Ecology Resources</i> , <b>2017</b> , 17, 54-66  | 8.4 | 11 |
| 19 | Gender-role alternation in the simultaneously hermaphroditic freshwater snail <i>Physa acuta</i> : not with the same partner. <i>Behavioral Ecology and Sociobiology</i> , <b>2008</b> , 62, 713-720       | 2.5 | 11 |
| 18 | THE ADDITIVE GENETIC VARIANCE AFTER BOTTLENECKS IS AFFECTED BY THE NUMBER OF LOCI INVOLVED IN EPISTATIC INTERACTIONS. <i>Evolution; International Journal of Organic Evolution</i> , <b>2003</b> , 57, 706 | 3.8 | 11 |
| 17 | QuantiNemo 2: a Swiss knife to simulate complex demographic and genetic scenarios, forward and backward in time. <i>Bioinformatics</i> , <b>2019</b> , 35, 886-888   | 7.2 | 11 |

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|----|--|------|---|
| 16 | Genetic structure of the genus <i>Leptospira</i> by multilocus enzyme electrophoresis. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>1999</b> , 49, 231-238  | 2.2  | 9 |
| 15 | Sex-specific allelic transmission bias suggests sexual conflict at MC1R. <i>Molecular Ecology</i> , <b>2016</b> , 25, 4551-4563  | 3.7  | 9 |
| 14 | Evolutionary implications of a high selfing rate in the freshwater snail <i>Lymnaea truncatula</i> . <i>Evolution; International Journal of Organic Evolution</i> , <b>2003</b> , 57, 2303-14  | 3.8  | 9 |
| 13 | A genetic reconstruction of the invasion of the calanoid copepod <i>Pseudodiaptomus inopinus</i> across the North American Pacific Coast. <i>Biological Invasions</i> , <b>2018</b> , 20, 1577-1595  | 2.7  | 8 |
| 12 | A set of primers for plastid indels and nuclear microsatellites in the invasive plant <i>Heracleum mantegazzianum</i> (Apiaceae) and their transferability to <i>Heracleum sphondylium</i> . <i>Molecular Ecology Resources</i> , <b>2008</b> , 8, 161-3 | 8.4  | 8 |
| 11 | Wheat alleles introgress into selfing wild relatives: empirical estimates from approximate Bayesian computation in <i>Aegilops triuncialis</i> . <i>Molecular Ecology</i> , <b>2014</b> , 23, 5089-101   | 5.7  | 7 |
| 10 | Complex genetic patterns in human arise from a simple range-expansion model over continental landmasses. <i>PLoS ONE</i> , <b>2018</b> , 13, e0192460  | 3.7  | 6 |
| 9  | SEX-BIASED DISPERSAL IN A MIGRATORY BAT: A CHARACTERIZATION USING SEX-SPECIFIC DEMOGRAPHIC PARAMETERS. <i>Evolution; International Journal of Organic Evolution</i> , <b>2007</b> , 55, 635-640  | 3.8  | 5 |
| 8  | Heterozygote advantage and the maintenance of polymorphism for multilocus traits. <i>Theoretical Population Biology</i> , <b>2005</b> , 68, 157-66   | 1.2  | 5 |
| 7  | Synergistic epistasis and alternative hypotheses. <i>Journal of Evolutionary Biology</i> , <b>2004</b> , 17, 1400-1; discussion 1402-4   | 2.3  | 3 |
| 6  | Greater topoclimatic control of above- versus below-ground communities. <i>Global Change Biology</i> , <b>2020</b> , 26, 6715-6728   | 11.4 | 3 |
| 5  | Common garden experiments to study local adaptation need to account for population structure. <i>Journal of Ecology</i> , <b>2020</b> ,  | 6    | 2 |
| 4  | How HLA diversity is apportioned: influence of selection and relevance to transplantation.. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2022</b> , 377, 20200420  | 5.8  | 2 |
| 3  | New genome assembly of the barn owl (). <i>Ecology and Evolution</i> , <b>2020</b> , 10, 2284-2298   | 2.8  | 1 |
| 2  | A unified characterization of population structure and relatedness   |      | 1 |
| 1  | Female-biased dispersal and non-random gene flow of MC1R variants do not result in a migration load in barn owls. <i>Heredity</i> , <b>2019</b> , 122, 305-314   | 3.6  | 0 |