

Xavier Vekemans

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4711074/publications.pdf>

Version: 2024-02-01

90
papers

10,471
citations

57758

44
h-index

45317

90
g-index

97
all docs

97
docs citations

97
times ranked

9265
citing authors

#	ARTICLE	IF	CITATIONS
1	spagedi: a versatile computer program to analyse spatial genetic structure at the individual or population levels. <i>Molecular Ecology Notes</i> , 2002, 2, 618-620.	1.7	3,239
2	New insights from fine-scale spatial genetic structure analyses in plant populations. <i>Molecular Ecology</i> , 2004, 13, 921-935.	3.9	1,037
3	Data from amplified fragment length polymorphism (AFLP) markers show indication of size homoplasmy and of a relationship between degree of homoplasmy and fragment size. <i>Molecular Ecology</i> , 2002, 11, 139-151.	3.9	747
4	Isolation by distance in a continuous population: reconciliation between spatial autocorrelation analysis and population genetics models. <i>Heredity</i> , 1999, 83, 145-154.	2.6	360
5	Chromosome-scale assemblies of plant genomes using nanopore long reads and optical maps. <i>Nature Plants</i> , 2018, 4, 879-887.	9.3	316
6	Chloroplast DNA variation and postglacial recolonization of common ash (<i>Fraxinus excelsior</i> L.) in Europe. <i>Molecular Ecology</i> , 2004, 13, 3437-3452.	3.9	248
7	Plant self-incompatibility in natural populations: a critical assessment of recent theoretical and empirical advances. <i>Molecular Ecology</i> , 2004, 13, 2873-2889.	3.9	193
8	The effect of subdivision on variation at multi-allelic loci under balancing selection. <i>Genetical Research</i> , 2000, 76, 51-62.	0.9	190
9	The Transition to Self-Compatibility in <i>Arabidopsis thaliana</i> and Evolution within S-Haplotypes over 10 Myr. <i>Molecular Biology and Evolution</i> , 2006, 23, 1741-1750.	8.9	154
10	Repeated Adaptive Introgression at a Gene under Multiallelic Balancing Selection. <i>PLoS Genetics</i> , 2008, 4, e1000168.	3.5	151
11	Estimating seed vs. pollen dispersal from spatial genetic structure in the common ash. <i>Molecular Ecology</i> , 2003, 12, 2483-2495.	3.9	147
12	The signature of balancing selection: Fungal mating compatibility gene evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 9172-9177.	7.1	138
13	NUCLEAR MICROSATELLITES REVEAL CONTRASTING PATTERNS OF GENETIC STRUCTURE BETWEEN WESTERN AND SOUTHEASTERN EUROPEAN POPULATIONS OF THE COMMON ASH (<i>FRAXINUS EXCELSIOR</i> L.). <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 976-988.	2.3	136
14	Plant self-incompatibility systems: a molecular evolutionary perspective. <i>New Phytologist</i> , 2005, 168, 61-69.	7.3	136
15	Genetic variation in the endangered wild apple (<i>Malus sylvestris</i> (L.) Mill.) in Belgium as revealed by amplified fragment length polymorphism and microsatellite markers. <i>Molecular Ecology</i> , 2003, 12, 845-857.	3.9	134
16	QUANTIFYING GENE FLOW FROM SPATIAL GENETIC STRUCTURE DATA IN A METAPOPOPULATION OF <i>CHAMAECRISTA FASCICULATA</i> (LEGUMINOSAE). <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 995-1007.	2.3	125
17	Assessment of genetic diversity within and among germplasm accessions in cultivated sorghum using microsatellite markers. <i>Theoretical and Applied Genetics</i> , 2000, 100, 918-925.	3.6	119
18	Nuclear and chloroplast DNA phylogeography reveals vicariance among European populations of the model species for the study of metal tolerance, <i>Arabidopsis halleri</i> (<i>Brassicaceae</i>). <i>New Phytologist</i> , 2012, 193, 916-928.	7.3	112

#	ARTICLE	IF	CITATIONS
19	Contrasted Patterns of Molecular Evolution in Dominant and Recessive Self-Incompatibility Haplotypes in Arabidopsis. PLoS Genetics, 2012, 8, e1002495.	3.5	91
20	Does Speciation between Arabidopsis halleri and Arabidopsis lyrata Coincide with Major Changes in a Molecular Target of Adaptation?. PLoS ONE, 2011, 6, e26872.	2.5	87
21	Evolutionary Dynamics of Sporophytic Self-Incompatibility Alleles in Plants. Genetics, 1997, 147, 835-846.	2.9	84
22	MATE AVAILABILITY AND FECUNDITY SELECTION IN MULTI-ALLELIC SELF-INCOMPATIBILITY SYSTEMS IN PLANTS. Evolution; International Journal of Organic Evolution, 1998, 52, 19-29.	2.3	79
23	Can we continue to neglect genomic variation in introgression rates when inferring the history of speciation? A case study in a <i>Mycosclerella</i> hybrid zone. Journal of Evolutionary Biology, 2014, 27, 1662-1675.	1.7	79
24	The evolution of selfing from outcrossing ancestors in Brassicaceae: what have we learned from variation at the <i>S-locus</i> ?. Journal of Evolutionary Biology, 2014, 27, 1372-1385.	1.7	76
25	A General Model to Explore Complex Dominance Patterns in Plant Sporophytic Self-Incompatibility Systems. Genetics, 2007, 175, 1351-1369.	2.9	70
26	Assessment of genetic structure within and among Bulgarian populations of the common ash (<i>Fraxinus excelsior</i> L.). Molecular Ecology, 2001, 10, 1615-1623.	3.9	66
27	Evolution under strong balancing selection: how many codons determine specificity at the female self-incompatibility gene SRK in Brassicaceae?. BMC Evolutionary Biology, 2007, 7, 132.	3.2	66
28	DOES FREQUENCY-DEPENDENT SELECTION WITH COMPLEX DOMINANCE INTERACTIONS ACCURATELY PREDICT ALLELIC FREQUENCIES AT THE SELF-INCOMPATIBILITY LOCUS IN <i>ARABIDOPSIS HALLERI</i> ?. Evolution; International Journal of Organic Evolution, 2008, 62, 2545-2557.	2.3	66
29	Elucidation of the genetic architecture of self-incompatibility in olive: Evolutionary consequences and perspectives for orchard management. Evolutionary Applications, 2017, 10, 867-880.	3.1	66
30	Assessing population genetic structure of sorghum landraces from North-western Morocco using allozyme and microsatellite markers. Theoretical and Applied Genetics, 1999, 99, 157-163.	3.6	65
31	Allozyme variation in relation to ecotypic differentiation and population size in marginal populations of <i>Silene nutans</i> . Heredity, 1997, 78, 552-560.	2.6	64
32	The effect of hitch-hiking on genes linked to a balanced polymorphism in a subdivided population. Genetical Research, 2000, 76, 63-73.	0.9	63
33	Genetic structure and mating systems of metallicolous and nonmetallicolous populations of <i>Thlaspi caerulescens</i> . New Phytologist, 2003, 157, 633-641.	7.3	61
34	Dominance hierarchy arising from the evolution of a complex small RNA regulatory network. Science, 2014, 346, 1200-1205.	12.6	61
35	PATTERNS OF ALLOZYME VARIATION IN DIPLOID AND TETRAPLOID <i>CENTAUREA JACEA</i> AT DIFFERENT SPATIAL SCALES. Evolution; International Journal of Organic Evolution, 2001, 55, 943.	2.3	60
36	Allelic Genealogies in Sporophytic Self-Incompatibility Systems in Plants. Genetics, 1998, 150, 1187-1198.	2.9	60

#	ARTICLE	IF	CITATIONS
37	Mate Availability and Fecundity Selection in Multi-Allelic Self- Incompatibility Systems in Plants. Evolution; International Journal of Organic Evolution, 1998, 52, 19.	2.3	59
38	Recent and Ancient Signature of Balancing Selection around the S-Locus in <i>Arabidopsis halleri</i> and <i>A. lyrata</i> . Molecular Biology and Evolution, 2013, 30, 435-447.	8.9	55
39	Secondary Evolution of a Self-Incompatibility Locus in the Brassicaceae Genus <i>Leavenworthia</i> . PLoS Biology, 2013, 11, e1001560.	5.6	54
40	Factor analysis of the relationships between several physico-chemical and microbiological characteristics of some Belgian agricultural soils. Soil Biology and Biochemistry, 1989, 21, 53-58.	8.8	52
41	Evidence for Convergent Nucleotide Evolution and High Allelic Turnover Rates at the complementary sex determiner Gene of Western and Asian Honeybees. Molecular Biology and Evolution, 2008, 25, 696-708.	8.9	50
42	Patterns of Polymorphism at the Self-Incompatibility Locus in 1,083 <i>Arabidopsis thaliana</i> Genomes. Molecular Biology and Evolution, 2017, 34, 1878-1889.	8.9	48
43	Genetic diversity in Lima bean (<i>Phaseolus lunatus</i> L.) as revealed by RAPD markers. Euphytica, 1997, 95, 157-165.	1.2	47
44	Allozyme segregation and inter-cytotype reproductive barriers in the polyploid complex <i>Centaurea jacea</i> . Heredity, 2001, 87, 136-145.	2.6	47
45	Molecular Evolution within and between Self-Incompatibility Specificities. Molecular Biology and Evolution, 2010, 27, 11-20.	8.9	47
46	How and when did <i>Arabidopsis thaliana</i> become highly self-fertilising. BioEssays, 2005, 27, 472-476.	2.5	46
47	High paternal diversity in the self-incompatible herb <i>Arabidopsis halleri</i> despite clonal reproduction and spatially restricted pollen dispersal. Molecular Ecology, 2008, 17, 1577-1588.	3.9	44
48	EVOLUTION OF DOMINANCE IN SPOROPHYTIC SELF-INCOMPATIBILITY SYSTEMS: I. GENETIC LOAD AND COEVOLUTION OF LEVELS OF DOMINANCE IN POLLEN AND PISTIL. Evolution; International Journal of Organic Evolution, 2009, 63, 2427-2437.	2.3	44
49	Patterns of allozymic variation within <i>Calluna vulgaris</i> populations at seed bank and adult stages. Heredity, 1999, 82, 432-440.	2.6	43
50	Unequal allelic frequencies at the self-incompatibility locus within local populations of <i>Prunus avium</i> L.: an effect of population structure?. Journal of Evolutionary Biology, 2008, 21, 889-899.	1.7	42
51	Effect of balancing selection on spatial genetic structure within populations: theoretical investigations on the self-incompatibility locus and empirical studies in <i>Arabidopsis halleri</i> . Heredity, 2011, 106, 319-329.	2.6	42
52	Molecular evidence for an Andean origin and a secondary gene pool for the Lima bean (<i>Phaseolus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.6	41
53	In situ estimation of outcrossing rate in sorghum landraces using microsatellite markers. Euphytica, 2004, 138, 205-212.	1.2	37
54	A comparative study of allozyme variation of peripheral and central populations of <i>Silene nutans</i> L. (Caryophyllaceae) from Western Europe: implications for conservation. Plant Systematics and Evolution, 2003, 242, 49-61.	0.9	33

#	ARTICLE	IF	CITATIONS
55	Allozyme diversity and genetic structure in Southâ€Western populations of heather, <i>Calluna vulgaris</i> . <i>New Phytologist</i> , 1997, 137, 325-334.	7.3	32
56	A Morphometric Study of Populations of the <i>Centaurea jacea</i> Complex (Asteraceae) in Belgium. <i>Plant Biology</i> , 2002, 4, 403-412.	3.8	32
57	Self-Incompatibility in Brassicaceae: Identification and Characterization of <i>S</i> -Like Sequences Linked to the <i>S</i> -Locus in the Tribe Biscutelleae. <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 983-992.	1.8	32
58	DILS: Demographic inferences with linked selection by using ABC. <i>Molecular Ecology Resources</i> , 2021, 21, 2629-2644.	4.8	32
59	Hitch-hiking to a locus under balancing selection: high sequence diversity and low population subdivision at the <i>S</i> -locus genomic region in <i>Arabidopsis halleri</i> . <i>Genetical Research</i> , 2008, 90, 37-46.	0.9	31
60	An experimental study of the <i>S</i> -Allee effect in the self-incompatible plant <i>Biscutella neustriaca</i> . <i>Conservation Genetics</i> , 2010, 11, 497-508.	1.5	30
61	Distinction between cultivated and wild chicory gene pools using AFLP markers. <i>Theoretical and Applied Genetics</i> , 2003, 107, 713-718.	3.6	29
62	Genomic consequences of selection on self-incompatibility genes. <i>Current Opinion in Plant Biology</i> , 2008, 11, 116-122.	7.1	29
63	Evolution of selfâ€incompatibility in the Brassicaceae: Lessons from a textbook example of natural selection. <i>Evolutionary Applications</i> , 2020, 13, 1279-1297.	3.1	29
64	Spatial autocorrelation of allozyme and quantitative markers within a natural population of <i>Centaurea jacea</i> (Asteraceae). <i>Journal of Evolutionary Biology</i> , 2000, 13, 656-667.	1.7	26
65	Patterns of morphological and allozyme variation in sorghum landraces of Northwestern Morocco. <i>Genetic Resources and Crop Evolution</i> , 1998, 45, 541-548.	1.6	25
66	Higher impact of female than male migration on population structure in large mammals. <i>Molecular Ecology</i> , 2000, 9, 1159-1163.	3.9	24
67	Controlling for genetic identity of varieties, pollen contamination and stigma receptivity is essential to characterize the selfâ€incompatibility system of <i>Olea europaea</i> L.. <i>Evolutionary Applications</i> , 2017, 10, 860-866.	3.1	24
68	Maintenance of Adaptive Dynamics and No Detectable Load in a Range-Edge Outcrossing Plant Population. <i>Molecular Biology and Evolution</i> , 2021, 38, 1820-1836.	8.9	24
69	Phylogenetic study on wild allies of Lima bean, <i>Phaseolus lunatus</i> (Fabaceae), and implications on its origin. <i>Plant Systematics and Evolution</i> , 1999, 218, 43-54.	0.9	23
70	Gradual Molecular Evolution of a Sex Determination Switch through Incomplete Penetrance of Femaleness. <i>Current Biology</i> , 2013, 23, 2559-2564.	3.9	22
71	Allozyme variation in relation to ecotypic differentiation and population size in marginal populations of <i>Silene nutans</i> . <i>Heredity</i> , 1997, 78, 552-560.	2.6	21
72	Isolation by distance in a continuous population: reconciliation between spatial autocorrelation analysis and population genetics models. <i>Heredity</i> , 1999, 83, 145-154.	2.6	20

#	ARTICLE	IF	CITATIONS
73	Genotyping and De Novo Discovery of Allelic Variants at the Brassicaceae Self-Incompatibility Locus from Short-Read Sequencing Data. <i>Molecular Biology and Evolution</i> , 2020, 37, 1193-1201.	8.9	19
74	The population genetics of <i>Armeria maritima</i> (Mill.) Willd. on the River South Tyne, UK. <i>New Phytologist</i> , 1989, 112, 281-293.	7.3	17
75	Whole-genome sequencing and genome regions of special interest: Lessons from major histocompatibility complex, sex determination, and plant self-incompatibility. <i>Molecular Ecology</i> , 2021, 30, 6072-6086.	3.9	17
76	What's good for you may be good for me: evidence for adaptive introgression of multiple traits in wild sunflower. <i>New Phytologist</i> , 2010, 187, 6-9.	7.3	14
77	A numerical taxonomic study of <i>Armeria maritima</i> (Plumbaginaceae) in North America and Greenland. <i>Canadian Journal of Botany</i> , 1995, 73, 1583-1595.	1.1	13
78	The unusual <i>S</i> locus of <i>Leavenworthia</i> is composed of two sets of paralogous loci. <i>New Phytologist</i> , 2017, 216, 1247-1255.	7.3	13
79	Flavonoid profiles variation in <i>Armeria maritima</i> (Mill.) Willd.. <i>Biochemical Systematics and Ecology</i> , 1995, 23, 319-329.	1.3	12
80	Trait Transitions in Explicit Ecological and Genomic Contexts: Plant Mating Systems as Case Studies. <i>Advances in Experimental Medicine and Biology</i> , 2014, 781, 7-36.	1.6	12
81	Base-Pairing Requirements for Small RNA-Mediated Gene Silencing of Recessive Self-Incompatibility Alleles in <i>Arabidopsis halleri</i> . <i>Genetics</i> , 2020, 215, 653-664.	2.9	12
82	Diversification dynamics of freshwater bivalves (Unionidae: Parreysiinae: Coelaturini) indicate historic hydrographic connections throughout the East African Rift System. <i>Molecular Phylogenetics and Evolution</i> , 2020, 148, 106816.	2.7	11
83	Asymmetrical diversification of the receptor-ligand interaction controlling self-incompatibility in <i>Arabidopsis</i> . <i>ELife</i> , 2019, 8, .	6.0	11
84	Impact of whole genome triplication on the evolutionary history and the functional dynamics of regulatory genes involved in Brassica self-incompatibility signalling pathway. <i>Plant Reproduction</i> , 2020, 33, 43-58.	2.2	10
85	NUCLEAR MICROSATELLITES REVEAL CONTRASTING PATTERNS OF GENETIC STRUCTURE BETWEEN WESTERN AND SOUTHEASTERN EUROPEAN POPULATIONS OF THE COMMON ASH (<i>FRAXINUS EXCELSIOR</i> L.). <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 976.	2.3	9
86	Immune failure reveals vulnerability of populations exposed to pollution in the bioindicator species <i>Hediste diversicolor</i> . <i>Science of the Total Environment</i> , 2018, 613-614, 1527-1542.	8.0	9
87	Adaptive divergence in shell morphology in an ongoing gastropod radiation from Lake Malawi. <i>BMC Evolutionary Biology</i> , 2020, 20, 5.	3.2	6
88	When the genetic architecture matters: evolutionary and ecological implications of self versus nonself recognition in plant self-incompatibility. <i>New Phytologist</i> , 2021, 231, 1304-1307.	7.3	5
89	PATTERNS OF ALLOZYME VARIATION IN DIPLOID AND TETRAPLOID <i>CENTAUREA JACEA</i> AT DIFFERENT SPATIAL SCALES. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 55, 943-954.	2.3	4
90	Intriguing small-scale spatial distribution of chloroplastic and nuclear diversity in the endangered plant <i>Biscutella neustriaca</i> (Brassicaceae). <i>Conservation Genetics</i> , 2013, 14, 65-77.	1.5	3