Vincent Castric

List of Publications by Year
in descending order

56 papers	3,298 citations	126907 33 h-index	161849 54 g-index
70 all docs	70 docs citations	70 times ranked	3129 citing authors

#	Article	IF	Citations
1	Wholeâ€genome sequencing and genome regions of special interest: Lessons from major histocompatibility complex, sex determination, and plant selfâ€incompatibility. Molecular Ecology, 2021, 30, 6072-6086.	3.9	17
2	When the genetic architecture matters: evolutionary and ecological implications of self versus nonself recognition in plant selfâ€incompatibility. New Phytologist, 2021, 231, 1304-1307.	7.3	5
3	The integrative biology of genetic dominance. Biological Reviews, 2021, 96, 2925-2942.	10.4	27
4	Maintenance of Adaptive Dynamics and No Detectable Load in a Range-Edge Outcrossing Plant Population. Molecular Biology and Evolution, 2021, 38, 1820-1836.	8.9	24
5	Genotyping and De Novo Discovery of Allelic Variants at the Brassicaceae Self-Incompatibility Locus from Short-Read Sequencing Data. Molecular Biology and Evolution, 2020, 37, 1193-1201.	8.9	19
6	Breakdown of gametophytic selfâ€incompatibility in subdivided populations. Evolution; International Journal of Organic Evolution, 2020, 74, 270-282.	2.3	9
7	Base-Pairing Requirements for Small RNA-Mediated Gene Silencing of Recessive Self-Incompatibility Alleles inArabidopsis halleri. Genetics, 2020, 215, 653-664.	2.9	12
8	Evolution of selfâ€incompatibility in the Brassicaceae: Lessons from a textbook example of natural selection. Evolutionary Applications, 2020, 13, 1279-1297.	3.1	29
9	Differential retention of transposable element-derived sequences in outcrossing Arabidopsis genomes. Mobile DNA, 2019, 10, 30.	3.6	26
10	Genetic basis and timing of a major mating system shift in Capsella. New Phytologist, 2019, 224, 505-517.	7.3	23
11	Bulk pollen sequencing reveals rapid evolution of segregation distortion in the male germline of Arabidopsis hybrids. Evolution Letters, 2019, 3, 93-103.	3.3	13
12	Asymmetrical diversification of the receptor-ligand interaction controlling self-incompatibility in Arabidopsis. ELife, 2019, 8, .	6.0	11
13	Genome sequencing reveals the origin of the allotetraploid Arabidopsis suecica. Molecular Biology and Evolution, 2017, 34, msw299.	8.9	73
14	The unusual S locus of Leavenworthia is composed of two sets of paralogous loci. New Phytologist, 2017, 216, 1247-1255.	7.3	13
15	Patterns of Polymorphism at the Self-Incompatibility Locus in 1,083 Arabidopsis thaliana Genomes. Molecular Biology and Evolution, 2017, 34, 1878-1889.	8.9	48
16	Genetic and morphological heterogeneity among populations of Eurytemora affinis (Crustacea:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	0.2	19
17	The Discovery of Natural Miscanthus Accessions Related to Miscanthus Ã— giganteus Using Chloroplast DNA. Crop Science, 2014, 54, 1645-1655.	1.8	5
18	Dominance hierarchy arising from the evolution of a complex small RNA regulatory network. Science, 2014, 346, 1200-1205.	12.6	61

#	Article	IF	Citations
19	GENETIC ARCHITECTURE OF INBREEDING DEPRESSION AND THE MAINTENANCE OF GAMETOPHYTIC SELFâ€INCOMPATIBILITY. Evolution; International Journal of Organic Evolution, 2014, 68, 3317-3324.	2.3	28
20	Self-Incompatibility in Brassicaceae: Identification and Characterization of SRK-Like Sequences Linked to the S-Locus in the Tribe Biscutelleae. G3: Genes, Genomes, Genetics, 2014, 4, 983-992.	1.8	32
21	Trait Transitions in Explicit Ecological and Genomic Contexts: Plant Mating Systems as Case Studies. Advances in Experimental Medicine and Biology, 2014, 781, 7-36.	1.6	12
22	The evolution of selfing from outcrossing ancestors in Brassicaceae: what have we learned from variation at the Sâ€locus?. Journal of Evolutionary Biology, 2014, 27, 1372-1385.	1.7	76
23	Can we continue to neglect genomic variation in introgression rates when inferring the history of speciation? A case study in a <scp>M</scp>ytilus hybrid zone. Journal of Evolutionary Biology, 2014, 27, 1662-1675.	1.7	79
24	Disentangling the effects of mating systems and mutation rates on cytoplamic diversity in gynodioecious Silene nutans and dioecious Silene otites. Heredity, 2013, 111, 157-164.	2.6	16
25	DNA Binding of the Cell Cycle Transcriptional Regulator GcrA Depends on N6-Adenosine Methylation in Caulobacter crescentus and Other Alphaproteobacteria. PLoS Genetics, 2013, 9, e1003541.	3.5	104
26	Recent and Ancient Signature of Balancing Selection around the S-Locus in Arabidopsis halleri and A. lyrata. Molecular Biology and Evolution, 2013, 30, 435-447.	8.9	55
27	Contrasted Patterns of Molecular Evolution in Dominant and Recessive Self-Incompatibility Haplotypes in Arabidopsis. PLoS Genetics, 2012, 8, e1002495.	3.5	91
28	Nuclear and chloroplast DNA phylogeography reveals vicariance among European populations of the model species for the study of metal tolerance, Arabidopsis halleri (Brassicaceae). New Phytologist, 2012, 193, 916-928.	7.3	112
29	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
30	Structural and Content Diversity of Mitochondrial Genome in Beet: A Comparative Genomic Analysis. Genome Biology and Evolution, 2011, 3, 723-736.	2.5	67
31	Effect of balancing selection on spatial genetic structure within populations: theoretical investigations on the self-incompatibility locus and empirical studies in Arabidopsis halleri. Heredity, 2011, 106, 319-329.	2.6	42
32	Evidence for Fisher's dominance theory: how many â€˜special casesâ€™?. Trends in Genetics, 2011, 27, 441-445.	6.7	28
33	Genetic heterogeneity among Eurytemora affinis populations in Western Europe. Marine Biology, 2011, 158, 1841-1856.	1.5	41
34	Origin and Diversification Dynamics of Self-Incompatibility Haplotypes. Genetics, 2011, 188, 625-636.	2.9	51
35	Variability of zinc tolerance among and within populations of the pseudometallophyte species Arabidopsis halleri and possible role of directional selection. New Phytologist, 2010, 185, 130-142.	7.3	106
36	Molecular Evolution within and between Self-Incompatibility Specificities. Molecular Biology and Evolution, 2010, 27, 11-20.	8.9	47

#	Article	IF	Citations
37	Genomic pattern of adaptive divergence in Arabidopsis halleri, a model species for tolerance to heavy metal. Molecular Ecology, 2009, 18, 2050-2062.	3.9	59
38	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
39	DOES FREQUENCY-DEPENDENT SELECTION WITH COMPLEX DOMINANCE INTERACTIONS ACCURATELY PREDICT ALLELIC FREQUENCIES AT THE SELF-INCOMPATIBILITY LOCUS INARABIDOPSIS HALLERI?. Evolution; International Journal of Organic Evolution, 2008, 62, 2545-2557.	2.3	66
40	Unequal allelic frequencies at the selfâ€incompatibility locus within local populations of Prunus avium L.: an effect of population structure?. Journal of Evolutionary Biology, 2008, 21, 889-899.	1.7	42
41	High paternal diversity in the selfâ€incompatible herbArabidopsis halleridespite clonal reproduction and spatially restricted pollen dispersal. Molecular Ecology, 2008, 17, 1577-1588.	3.9	44
42	Identification and expression profile of gene transcripts differentially expressed during metallic exposure in Eisenia fetida coelomocytes. Developmental and Comparative Immunology, 2008, 32, 1441-1453.	2.3	29
43	Repeated Adaptive Introgression at a Gene under Multiallelic Balancing Selection. PLoS Genetics, 2008, 4, e1000168.	3.5	151
44	Hitch-hiking to a locus under balancing selection: high sequence diversity and low population subdivision at the S-locus genomic region inArabidopsis halleri. Genetical Research, 2008, 90, 37-46.	0.9	31
45	A General Model to Explore Complex Dominance Patterns in Plant Sporophytic Self-Incompatibility Systems. Genetics, 2007, 175, 1351-1369.	2.9	70
46	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
47	The Transition to Self-Compatibility in Arabidopsis thaliana and Evolution within S-Haplotypes over 10 Myr. Molecular Biology and Evolution, 2006, 23, 1741-1750.	8.9	154
48	Plant selfâ€incompatibility systems: a molecular evolutionary perspective. New Phytologist, 2005, 168, 61-69.	7.3	136
49	Individual assignment test reveals differential restriction to dispersal between two salmonids despite no increase of genetic differences with distance. Molecular Ecology, 2004, 13, 1299-1312.	3.9	68
50	Plant self-incompatibility in natural populations: a critical assessment of recent theoretical and empirical advances. Molecular Ecology, 2004, 13, 2873-2889.	3.9	193
51	The Rise and Fall of Isolation by Distance in the Anadromous Brook Charr (Salvelinus fontinalis) Tj ETQq1 1 0.784314 rgBT /Ov	2.9	132
52	identix, a software to test for relatedness in a population using permutation methods. Molecular Ecology Notes, 2002, 2, 611-614.	1.7	186
53	Heterozygote deficiencies in small lacustrine populations of brook charr Salvelinus Fontinalis Mitchill (Pisces, Salmonidae): a test of alternative hypotheses. Heredity, 2002, 89, 27-35.	2.6	109
54	Physiological, Endocrine, and Genetic Bases of Anadromy in the Brook Charr, Salvelinus Fontinalis, of the Laval River (QuÃ©bec, Canada). Environmental Biology of Fishes, 2002, 64, 229-242.	1.0	37

#	Article	IF	Citations
55	LANDSCAPE STRUCTURE AND HIERARCHICAL GENETIC DIVERSITY IN THE BROOK CHARR, SALVELINUS FONTINALIS. Evolution; International Journal of Organic Evolution, 2001, 55, 1016.	2.3	156
56	Genetic mapping of sex and self-incompatibility determinants in the androdioecious plant Phillyrea angustifolia. , 0, 1, .		3