

# John H Willis

## List of Publications by Year in descending order

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44  
papers

4,052  
citations

159585

30  
h-index

243625

44  
g-index

63  
all docs

63  
docs citations

63  
times ranked

3586  
citing authors

#	ARTICLE	IF	CITATIONS
1	Which evolutionary processes influence natural genetic variation for phenotypic traits?. <i>Nature Reviews Genetics</i> , 2007, 8, 845-856.	16.3	433
2	PERSPECTIVE: SPONTANEOUS DELETERIOUS MUTATION. <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 645-663.	2.3	317
3	A Genetic Map in the <i>Mimulus guttatus</i> Species Complex Reveals Transmission Ratio Distortion due to Heterospecific Interactions. <i>Genetics</i> , 2001, 159, 1701-1716.	2.9	316
4	DIVERGENT SELECTION ON FLOWERING TIME CONTRIBUTES TO LOCAL ADAPTATION IN MIMULUS GUTTATUS POPULATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 2466-2477.	2.3	270
5	MINOR QUANTITATIVE TRAIT LOCI UNDERLIE FLORAL TRAITS ASSOCIATED WITH MATING SYSTEM DIVERGENCE IN MIMULUS. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 2138-2155.	2.3	229
6	EFFECTS OF DIFFERENT LEVELS OF INBREEDING ON FITNESS COMPONENTS IN <i>MIMULUS GUTTATUS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 864-876.	2.3	164
7	INCREASED HERITABLE VARIATION FOLLOWING POPULATION BOTTLENECKS: THE ROLE OF DOMINANCE. <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 949-957.	2.3	160
8	Pleiotropic Quantitative Trait Loci Contribute to Population Divergence in Traits Associated With Life-History Variation in <i>Mimulus guttatus</i> . <i>Genetics</i> , 2006, 172, 1829-1844.	2.9	147
9	Pollen limitation and natural selection on floral characters in the yellow monkeyflower, <i>Mimulus guttatus</i> . <i>New Phytologist</i> , 2008, 177, 802-810.	7.3	132
10	THE ROLE OF GENES OF LARGE EFFECT ON INBREEDING DEPRESSION IN <i>MIMULUS GUTTATUS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 1678-1691.	2.3	130
11	Partial self-fertilization and inbreeding depression in two populations of <i>Mimulus guttatus</i> . <i>Heredity</i> , 1993, 71, 145-154.	2.6	125
12	EVIDENCE FOR DOBZHANSKY-MULLER INCOMPATIBILITIES CONTRIBUTING TO THE STERILITY OF HYBRIDS BETWEEN MIMULUS GUTTATUS AND M. NASUTUS. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 1932-1942.	2.3	120
13	Population-genomic inference of the strength and timing of selection against gene flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7061-7066.	7.1	114
14	Selective trade-offs maintain alleles underpinning complex trait variation in plants. <i>Science</i> , 2018, 361, 475-478.	12.6	94
15	Inbreeding Load, Average Dominance and the Mutation Rate for Mildly Deleterious Alleles in <i>Mimulus guttatus</i> . <i>Genetics</i> , 1999, 153, 1885-1898.	2.9	88
16	Spatially and temporally varying selection on intrapopulation quantitative trait loci for a life history trade-off in <i>Mimulus guttatus</i> . <i>Molecular Ecology</i> , 2012, 21, 3718-3728.	3.9	85
17	Disruption of endosperm development is a major cause of hybrid seed inviability between <i>Mimulus guttatus</i> and <i>Mimulus nudatus</i> . <i>New Phytologist</i> , 2016, 210, 1107-1120.	7.3	79
18	The genetic architecture of local adaptation and reproductive isolation in sympatry within the <i>Mimulus guttatus</i> species complex. <i>Molecular Ecology</i> , 2017, 26, 208-224.	3.9	75

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19	Polymorphic microsatellite loci in <i>Mimulus guttatus</i> and related species. <i>Molecular Ecology</i> , 1998, 7, 769-774.	3.9	74
20	MEASURES OF PHENOTYPIC SELECTION ARE BIASED BY PARTIAL INBREEDING. <i>Evolution; International Journal of Organic Evolution</i> , 1996, 50, 1501-1511.	2.3	73
21	Population structure and local selection yield high genomic variation in <i>Mimulus guttatus</i> . <i>Molecular Ecology</i> , 2017, 26, 519-535.	3.9	73
22	The distribution of individual inbreeding coefficients and pairwise relatedness in a population of <i>Mimulus guttatus</i> . <i>Heredity</i> , 1999, 83, 625-632.	2.6	66
23	Major QTLs for critical photoperiod and vernalization underlie extensive variation in flowering in the <i>Mimulus guttatus</i> species complex. <i>New Phytologist</i> , 2013, 199, 571-583.	7.3	64
24	Genetic analysis of inbreeding depression caused by chlorophyll-deficient lethals in <i>Mimulus guttatus</i> . <i>Heredity</i> , 1992, 69, 562-572.	2.6	60
25	Geographic Variation of Plant Circadian Clock Function in Natural and Agricultural Settings. <i>Journal of Biological Rhythms</i> , 2017, 32, 26-34.	2.6	59
26	A Segregating Inversion Generates Fitness Variation in Yellow Monkeyflower ( <i>Mimulus</i> ). <i>Evolution</i> , 2019, 73, 462-472.	2.9	57
27	Dissecting the role of a large chromosomal inversion in life history divergence throughout the <i>Mimulus guttatus</i> species complex. <i>Molecular Ecology</i> , 2019, 28, 1343-1357.	3.9	53
28	Genetic divergence causes parallel evolution of flower color in Chilean <i>Mimulus</i> . <i>New Phytologist</i> , 2009, 183, 729-739.	7.3	52
29	The Standing Pool of Genomic Structural Variation in a Natural Population of <i>Mimulus guttatus</i> . <i>Genome Biology and Evolution</i> , 2014, 6, 53-64.	2.5	42
30	The contribution of male-sterility mutations to inbreeding depression in <i>Mimulus guttatus</i> . <i>Heredity</i> , 1999, 83, 337-346.	2.6	39
31	Contribution of chromosomal polymorphisms to the genetic matrix of <i>Mimulus guttatus</i> . <i>New Phytologist</i> , 2009, 183, 803-815.	7.3	37
32	Speciation on a local geographic scale: the evolution of a rare rock outcrop specialist in <i>Mimulus</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20140001.	4.0	37
33	Major QTL controls adaptation to serpentine soils in <i>Mimulus guttatus</i> . <i>Molecular Ecology</i> , 2018, 27, 5073-5087.	3.9	34
34	Leaf shape evolution has a similar genetic architecture in three edaphic specialists within the <i>Mimulus guttatus</i> species complex. <i>Annals of Botany</i> , 2015, 116, 213-223.	2.9	32
35	Differential adaptation to a harsh granite outcrop habitat between sympatric <i>Mimulus</i> species. <i>Evolution; International Journal of Organic Evolution</i> , 2018, 72, 1225-1241.	2.3	32
36	Hybrid inviability and differential submergence tolerance drive habitat segregation between two congeneric monkeyflowers. <i>Ecology</i> , 2018, 99, 2776-2786.	3.2	18

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37	The genetic architecture and evolution of life-history divergence among perennials in the <i>Mimulus guttatus</i> species complex. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210077.	2.6	16
38	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
39	<i>Mimulus sookensis</i> (Phrymaceae), a new Allotetraploid Species Derived from <i>Mimulus guttatus</i> and <i>Mimulus nasutus</i> . <i>Madrone</i> , 2012, 59, 29-43.	0.4	11
40	Developmental Analysis of <i>Mimulus</i> Seed Transcriptomes Reveals Functional Gene Expression Clusters and Four Imprinted, Endosperm-Expressed Genes. <i>Frontiers in Plant Science</i> , 2020, 11, 132.	3.6	11
41	DELETERIOUS MUTATIONS AND GENETIC VARIATION FOR FLOWER SIZE IN <i>MIMULUS GUTTATUS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2007, 55, 937-942.	2.3	9
42	Populations Are Differentiated in Biological Rhythms without Explicit Elevational Clines in the Plant <i>Mimulus laciniatus</i> . <i>Journal of Biological Rhythms</i> , 2020, 35, 452-464.	2.6	5
43	Origin of Species in Overdrive. <i>Science</i> , 2009, 323, 350-351.	12.6	3
44	Plastic breeding system response to day length in the California wildflower <i>Mimulus douglasii</i> . <i>American Journal of Botany</i> , 2018, 105, 779-787.	1.7	3