

# Sophie Breton

## List of Publications by Citations

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68

papers

1,732

citations

22

h-index

40

g-index

83

ext. papers

2,118

ext. citations

3.6

avg, IF

4.84

L-index

#	Paper	IF	Citations
68	The unusual system of doubly uniparental inheritance of mtDNA: isn't one enough?. <i>Trends in Genetics</i> , <b>2007</b> , 23, 465-74	8.5	222
67	Mitochondrial phylogenomics of the Bivalvia (Mollusca): searching for the origin and mitogenomic correlates of doubly uniparental inheritance of mtDNA. <i>BMC Evolutionary Biology</i> , <b>2010</b> , 10, 50	3	124
66	Novel protein genes in animal mtDNA: a new sex determination system in freshwater mussels (Bivalvia: Unionoida)?. <i>Molecular Biology and Evolution</i> , <b>2011</b> , 28, 1645-59	8.3	117
65	Comparative analysis of gender-associated complete mitochondrial genomes in marine mussels ( <i>Mytilus</i> spp.). <i>Genetics</i> , <b>2006</b> , 172, 1107-19	4	101
64	Comparative mitochondrial genomics of freshwater mussels (Bivalvia: Unionoida) with doubly uniparental inheritance of mtDNA: gender-specific open reading frames and putative origins of replication. <i>Genetics</i> , <b>2009</b> , 183, 1575-89	4	96
63	A resourceful genome: updating the functional repertoire and evolutionary role of animal mitochondrial DNAs. <i>Trends in Genetics</i> , <b>2014</b> , 30, 555-64	8.5	74
62	A comparative analysis of mitochondrial ORFans: new clues on their origin and role in species with doubly uniparental inheritance of mitochondria. <i>Genome Biology and Evolution</i> , <b>2013</b> , 5, 1408-34	3.9	65
61	Characterization of a mitochondrial ORF from the gender-associated mtDNAs of <i>Mytilus</i> spp. (Bivalvia: Mytilidae): identification of the "missing" ATPase 8 gene. <i>Marine Genomics</i> , <b>2010</b> , 3, 11-8	1.9	61
60	Structure, transcription, and variability of metazoan mitochondrial genome: perspectives from an unusual mitochondrial inheritance system. <i>Genome Biology and Evolution</i> , <b>2013</b> , 5, 1535-54	3.9	58
59	Atypical mitochondrial inheritance patterns in eukaryotes. <i>Genome</i> , <b>2015</b> , 58, 423-31	2.4	52
58	Pursuing the quest for better understanding the taxonomic distribution of the system of doubly uniparental inheritance of mtDNA. <i>PeerJ</i> , <b>2016</b> , 4, e2760	3.1	50
57	Evidence for a fourteenth mtDNA-encoded protein in the female-transmitted mtDNA of marine Mussels (Bivalvia: Mytilidae). <i>PLoS ONE</i> , <b>2011</b> , 6, e19365	3.7	47
56	Facing environmental predictability with different sources of epigenetic variation. <i>Ecology and Evolution</i> , <b>2016</b> , 6, 5234-45	2.8	42
55	Population structure of two northern hemisphere polychaetes, <i>Neanthes virens</i> and <i>Hediste diversicolor</i> (Nereididae), with different life-history traits. <i>Marine Biology</i> , <b>2003</b> , 142, 707-715	2.5	36
54	Model-based rational design of an oncolytic virus with improved therapeutic potential. <i>Nature Communications</i> , <b>2013</b> , 4, 1974	17.4	35
53	The human mitochondrial genome may code for more than 13 proteins. <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , <b>2016</b> , 27, 3098-101	1.3	32
52	Evolution of sex-dependent mtDNA transmission in freshwater mussels (Bivalvia: Unionida). <i>Scientific Reports</i> , <b>2017</b> , 7, 1551	4.9	29

51	Role-reversal of gender-associated mitochondrial DNA affects mitochondrial function in <i>Mytilus edulis</i> (Bivalvia: Mytilidae). <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , <b>2009</b> , 312, 108-17	1.8	25
50	Functional conservatism in mitochondrial evolution: insight from hybridization of arctic and brook charrs. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , <b>2006</b> , 306, 425-32	1.8	25
49	In silico analyses of mitochondrial ORFans in freshwater mussels (Bivalvia: Unionoidea) provide a framework for future studies of their origin and function. <i>BMC Genomics</i> , <b>2016</b> , 17, 597	4.5	25
48	Unscrambling genetic information at the RNA level. <i>Wiley Interdisciplinary Reviews RNA</i> , <b>2012</b> , 3, 213-28	9.3	24
47	Genome Survey of the Freshwater Mussel <i>Venustaconcha ellipsiformis</i> (Bivalvia: Unionoidea) Using a Hybrid De Novo Assembly Approach. <i>Genome Biology and Evolution</i> , <b>2018</b> , 10, 1637-1646	3.9	23
46	Population genetics of sex determination in <i>Mytilus</i> mussels: reanalyses and a model. <i>Journal of Heredity</i> , <b>2013</b> , 104, 380-5	2.4	21
45	Thermal sensitivity of metabolic enzymes in subarctic and temperate freshwater mussels (Bivalvia: Unionoidea). <i>Journal of Thermal Biology</i> , <b>2010</b> , 35, 11-20	2.9	17
44	Metabolic remodelling associated with mtDNA: insights into the adaptive value of doubly uniparental inheritance of mitochondria. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 286, 20182708	4.4	16
43	Deciphering the Link between Doubly Uniparental Inheritance of mtDNA and Sex Determination in Bivalves: Clues from Comparative Transcriptomics. <i>Genome Biology and Evolution</i> , <b>2018</b> , 10, 577-590	3.9	15
42	Mitochondrial gene order evolution in Mollusca: Inference of the ancestral state from the mtDNA of <i>Chaetopleura apiculata</i> (Polyplacophora, Chaetopleuridae). <i>Molecular Phylogenetics and Evolution</i> , <b>2018</b> , 120, 233-239	4.1	15
41	Resistance to two heterologous neurotropic oncolytic viruses, Semliki Forest virus and vaccinia virus, in experimental glioma. <i>Journal of Virology</i> , <b>2013</b> , 87, 2363-6	6.6	15
40	The extremely divergent maternally- and paternally-transmitted mitochondrial genomes are co-expressed in somatic tissues of two freshwater mussel species with doubly uniparental inheritance of mtDNA. <i>PLoS ONE</i> , <b>2017</b> , 12, e0183529	3.7	15
39	Actively transcribed and expressed gene in mussels. <i>PeerJ</i> , <b>2018</b> , 6, e4897	3.1	14
38	Early replication dynamics of sex-linked mitochondrial DNAs in the doubly uniparental inheritance species <i>Ruditapes philippinarum</i> (Bivalvia Veneridae). <i>Heredity</i> , <b>2016</b> , 116, 324-32	3.6	13
37	Epitoky in <i>Nereis</i> ( <i>Neanthes</i> ) <i>virens</i> (Polychaeta: Nereididae): a story about sex and death. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2008</b> , 149, 202-8	2.3	13
36	Mesozoic mitogenome rearrangements and freshwater mussel (Bivalvia: Unionoidea) macroevolution. <i>Heredity</i> , <b>2020</b> , 124, 182-196	3.6	13
35	Unorthodox features in two venerid bivalves with doubly uniparental inheritance of mitochondria. <i>Scientific Reports</i> , <b>2020</b> , 10, 1087	4.9	12
34	Light and Transmission Electron Microscopy of Two Spermatogenic Pathways and Unimorphic Spermatozoa in <i>Venustaconcha ellipsiformis</i> (Conrad, 1836) (Bivalvia: Unionoidea). <i>Malacologia</i> , <b>2012</b> , 55, 263-284	1.1	12

33	Masculinization Events and Doubly Uniparental Inheritance of Mitochondrial DNA: A Model for Understanding the Evolutionary Dynamics of Gender-Associated mtDNA in Mussels <b>2009</b> , 163-173		12
32	Linking paternally inherited mtDNA variants and sperm performance. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190177	5.8	12
31	Sequence motifs associated with paternal transmission of mitochondrial DNA in the horse mussel, <i>Modiolus modiolus</i> (Bivalvia: Mytilidae). <i>Gene</i> , <b>2017</b> , 605, 32-42	3.8	11
30	Sex-Determining Mechanisms in Bivalves <b>2018</b> , 165-192		11
29	Putative Mitochondrial Sex Determination in the Bivalvia: Insights From a Hybrid Transcriptome Assembly in Freshwater Mussels. <i>Frontiers in Genetics</i> , <b>2019</b> , 10, 840	4.5	10
28	The complete mitochondrial genome of the hermaphroditic freshwater mussel <i>Anodonta cygnea</i> (Bivalvia: Unionidae): in silico analyses of sex-specific ORFs across order Unionoida. <i>BMC Genomics</i> , <b>2018</b> , 19, 221	4.5	9
27	No effect of sperm interactions or egg homogenate on sperm velocity in the blue mussel, <i>Mytilus edulis</i> (Bivalvia: Mytilidae). <i>Canadian Journal of Zoology</i> , <b>2012</b> , 90, 1291-1296	1.5	9
26	Variability of mitochondrial ORFans hints at possible differences in the system of doubly uniparental inheritance of mitochondria among families of freshwater mussels (Bivalvia: Unionida). <i>BMC Evolutionary Biology</i> , <b>2019</b> , 19, 229	3	9
25	Mitochondrial activity in gametes and uniparental inheritance: a comment on What can we infer about the origin of sex in early eukaryotes? <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 373,	5.8	8
24	Analysis of the coding potential of the ORF in the control region of the female-transmitted <i>Mytilus</i> mtDNA. <i>Gene</i> , <b>2016</b> , 576, 586-8	3.8	8
23	Evidence for extreme sequence divergence between the male- and female-transmitted mitochondrial genomes in the bivalve mollusc, <i>Modiolus modiolus</i> (Mytilidae). <i>Journal of Zoological Systematics and Evolutionary Research</i> , <b>2017</b> , 55, 89-97	1.9	7
22	No evidence of sex-linked heteroplasmy or doubly-uniparental inheritance of mtDNA in five gastropod species. <i>Journal of Molluscan Studies</i> , <b>2017</b> , 83, 119-122	1.1	7
21	A Naturally Heteroplasmic Clam Provides Clues about the Effects of Genetic Bottleneck on Paternal mtDNA. <i>Genome Biology and Evolution</i> , <b>2021</b> , 13,	3.9	7
20	Mitochondrial thermo-sensitivity in invasive and native freshwater mussels. <i>Journal of Experimental Biology</i> , <b>2020</b> , 223,	3	6
19	The ORF in the control region of the female-transmitted <i>Mytilus</i> mtDNA codes for a protein. <i>Gene</i> , <b>2020</b> , 725, 144161	3.8	6
18	Sex Determining Mechanisms in Bivalves		5
17	The effect of cryopreservation on mitochondrial function in freshwater mussel tissue samples (Bivalvia: Unionida). <i>Cryobiology</i> , <b>2019</b> , 88, 106-109	2.7	4
16	Evaluating the utility of the female-specific mitochondrial gene for population genetic, phylogeographic and systematic studies in freshwater mussels (Bivalvia: Unionida). <i>PeerJ</i> , <b>2018</b> , 6, e5007 <sup>3.1</sup>		4

15	An Unusual Evolutionary Strategy: The Origins, Genetic Repertoire, and Implications of Doubly Uniparental Inheritance of Mitochondrial DNA in Bivalves <b>2020</b> , 301-323		4
14	Mitochondrial Genes, Sex Determination and Hermaphroditism in Freshwater Mussels (Bivalvia: Unionoidea) <b>2013</b> , 245-255		4
13	The male and female complete mitochondrial genomes of the threatened freshwater pearl mussel <i>Margaritifera margaritifera</i> (Linnaeus, 1758) (Bivalvia: Margaritiferidae). <i>Mitochondrial DNA Part B: Resources</i> , <b>2019</b> , 4, 1417-1420	0.5	3
12	A survey of medication preparation and administration practices among members of the Canadian Anesthesiologists Society. <i>Canadian Journal of Anaesthesia</i> , <b>2018</b> , 65, 1100-1109	3	3
11	Hepatitis C Contamination of Medication Vials Accessed with Sterile Needles and Syringes. <i>Anesthesiology</i> , <b>2019</b> , 131, 305-314	4.3	3
10	Distribution and frequency of mitochondrial DNA polymorphisms in blue mussel ( <i>Mytilus edulis</i> ) populations of southwestern Nova Scotia (Canada). <i>Canadian Journal of Zoology</i> , <b>2018</b> , 96, 608-613	1.5	2
9	Morphological variation in <i>Nereis (Neanthes) virens</i> (Polychaeta: Nereididae) populations. <i>Journal of the Marine Biological Association of the United Kingdom</i> , <b>2004</b> , 84, 983-985	1.1	2
8	A trait-based ecology to assess the acclimation of a sperm-dependent clonal fish compared to its sexual host. <i>PeerJ</i> , <b>2018</b> , 6, e5896	3.1	2
7	Effects of mitonuclear combination and thermal acclimation on the energetic phenotype. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , <b>2020</b> , 333, 264-270	1.9	1
6	A proposed method for analyzing molecular signatures to detect hermaphroditism in freshwater mussels: a case study using the eastern floater ( <i>Pyganodon cataracta</i> ). <i>Canadian Journal of Zoology</i> , <b>2021</b> , 99, 450-458	1.5	1
5	Bioenergetic consequences of sex-specific mitochondrial DNA evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2021</b> , 288, 20211585	4.4	1
4	Did doubly uniparental inheritance (DUI) of mtDNA originate as a cytoplasmic male sterility (CMS) system?. <i>BioEssays</i> , <b>2022</b> , e2100283	4.1	1
3	Safety-engineered intravenous catheter utilization among Canadian pediatric anesthesiologists. <i>Canadian Journal of Anaesthesia</i> , <b>2015</b> , 62, 461-75	3	0
2	Erector Spinae Plane Block When Neuraxial Analgesia Is Contraindicated by Clotting Abnormalities. <i>Annals of Thoracic Surgery</i> , <b>2021</b> , 112, e245-e247	2.7	0
1	The complete mitogenome of the inarticulate brachiopod reveals insights into gene order variation, deviant ATP8 and mtORFans in the Brachiopoda. <i>Mitochondrial DNA Part B: Resources</i> , <b>2021</b> , 6, 2701-2703	0.5	