

# Sophie Breton

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/6360810/sophie-breton-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
67	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
66	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
65	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
64	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	
63	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
62	Unorthodox features in two venerid bivalves with doubly uniparental inheritance of mitochondria. <i>Scientific Reports</i> , <b>2020</b> , 10, 1087	4.9	12
61	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
60	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
59	Mitochondrial thermo-sensitivity in invasive and native freshwater mussels. <i>Journal of Experimental Biology</i> , <b>2020</b> , 223,	3	6
58	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
57	Mesozoic mitogenome rearrangements and freshwater mussel (Bivalvia: Unionoidea) macroevolution. <i>Heredity</i> , <b>2020</b> , 124, 182-196	3.6	13
56	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
55	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
54	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
53	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
52	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

51	Hepatitis C Contamination of Medication Vials Accessed with Sterile Needles and Syringes. <i>Anesthesiology</i> , <b>2019</b> , 131, 305-314	4.3	3
50	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
49	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
48	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
47	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
46	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
45	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
44	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
43	Genome Survey of the Freshwater Mussel <i>Venustaconcha ellipsiformis</i> (Bivalvia: Unionida) Using a Hybrid De Novo Assembly Approach. <i>Genome Biology and Evolution</i> , <b>2018</b> , 10, 1637-1646	3.9	23
42	Actively transcribed and expressed gene in mussels. <i>PeerJ</i> , <b>2018</b> , 6, e4897	3.1	14
41	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>1</sup>		4
40	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
39	Sex-Determining Mechanisms in Bivalves <b>2018</b> , 165-192		11
38	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
37	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
36	Evolution of sex-dependent mtDNA transmission in freshwater mussels (Bivalvia: Unionida). <i>Scientific Reports</i> , <b>2017</b> , 7, 1551	4.9	29
35	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
34	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

33	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
32	Analysis of the coding potential of the ORF in the control region of the female-transmitted Mytilus mtDNA. <i>Gene</i> , <b>2016</b> , 576, 586-8	3.8	8
31	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
30	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
29	In silico analyses of mitochondrial ORFans in freshwater mussels (Bivalvia: Unionoida) provide a framework for future studies of their origin and function. <i>BMC Genomics</i> , <b>2016</b> , 17, 597	4.5	25
28	Facing environmental predictability with different sources of epigenetic variation. <i>Ecology and Evolution</i> , <b>2016</b> , 6, 5234-45	2.8	42
27	Safety-engineered intravenous catheter utilization among Canadian pediatric anesthesiologists. <i>Canadian Journal of Anaesthesia</i> , <b>2015</b> , 62, 461-75	3	0
26	Atypical mitochondrial inheritance patterns in eukaryotes. <i>Genome</i> , <b>2015</b> , 58, 423-31	2.4	52
25	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
24	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
23	Model-based rational design of an oncolytic virus with improved therapeutic potential. <i>Nature Communications</i> , <b>2013</b> , 4, 1974	17.4	35
22	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
21	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
20	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
19	Mitochondrial Genes, Sex Determination and Hermaphroditism in Freshwater Mussels (Bivalvia: Unionoida) <b>2013</b> , 245-255		4
18	Light and Transmission Electron Microscopy of Two Spermatogenic Pathways and Unimorphic Spermatozoa in <i>Venustaconcha ellipsiformis</i> (Conrad, 1836) (Bivalvia: Unionoida). <i>Malacologia</i> , <b>2012</b> , 55, 263-284	1.1	12
17	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
16	Unscrambling genetic information at the RNA level. <i>Wiley Interdisciplinary Reviews RNA</i> , <b>2012</b> , 3, 213-28	9.3	24

15	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
14	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
13	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
12	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
11	Thermal sensitivity of metabolic enzymes in subarctic and temperate freshwater mussels (Bivalvia: Unionoida). <i>Journal of Thermal Biology</i> , <b>2010</b> , 35, 11-20	2.9	17
10	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
9	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
8	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
7	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
6	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
5	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 <sup>1.8</sup>		25
4	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
3	Morphological variation in <i>Nereis</i> ( <i>Neanthes</i> ) <i>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
2	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
1	Sex Determining Mechanisms in Bivalves		5