

Table S1 Statistical Analyses

In the following table, the results of a Mann-Whitney test on three different type of sequences and tissues of mouse (M) and chicken (C) are listed. Each result has been re-analysed with Monte Carlo permutation test. The Monte Carlo permutation test builds sampling distributions by resampling the initial data, and then tests the difference between the different groups. In particular, the test takes several smaller samples from the original distributions and statistically tests their difference, thus obtaining an interval of confidence for the true p-value. 10^4 permutations were performed in each comparison.

Tissue	Type of sequence	Number of samples (M x C)	Mann-Whitney U	z	p	Monte Carlo permutation
Heart	NUMT reads	12 x 14	0	-4.3	1.75E-05	0.0001
Brain	NUMT reads	13 x 13	0	-4.4	1.12E-05	0.0001
Liver	NUMT reads	14 x 13	0	-4.5	7.45E-06	0.0001
Heart	mtDNA-only reads	12 x 14	58	-1.31	0.189	0.194
Brain	mtDNA-only reads	13 x 13	79	-0.56	0.577	0.583
Liver	mtDNA-only reads	14 x 13	78	-0.9	0.37	0.362
Heart	mtDNA reads	12 x 14	68.5	-0.77	0.44	0.433
Brain	mtDNA reads	13 x 13	38	-2.5	0.011	0.009
Liver	mtDNA reads	14 x 13	37	-2.8	0.005	0.004

Table S2 Distribution Statistics

In the following table, we reported the general statistics on the mouse (M) and chicken small mitochondrial RNAs distribution. Three distributions are based on samples of different tissue and species (heart, brain, liver in mouse and chicken) and the last distribution is on pooled samples. The distribution on pooled samples is generated after pooling together the data of the three tissues of each species, making 3 different distributions (NUMT, mtDNA-only and mtDNA reads) for each species.

Type of read	N	Tissue	Min	Max	Sum	Mean	Median	Std. Error	Std. Dev	Variance
C. NUMT	13	Brain	0.002	0.089	0.168	0.012	0.004	0.006	0.022	0.0005
C. mtDNA-only	13	Brain	0.701	2.237	23.111	1.650	1.820	0.120	0.452	0.2044
C. mtDNA	13	Brain	0.71	2.24	23.28	1.662	1.825	0.122	0.456	0.2086
M. NUMT	13	Brain	0.235	6.581	40.161	2.868	1.185	0.731	2.737	7.4917
M. mtDNA-only	13	Brain	0.617	6.279	27.745	1.981	1.873	0.380	1.424	2.0291
M. mtDNA	13	Brain	1.27	9.1	63.38	4.875	2.44	0.950	3.426	11.7392
C. NUMT	14	Heart	0.016	0.571	1.762	0.125	0.066	0.045	0.170	0.0291
C. mtDNA-only	14	Heart	2.725	11.89	75.247	5.374	4.094	0.747	2.796	7.8204
C. mtDNA	14	Heart	2.75	12.36	77.01	5.5	4.14	0.789	2.953	8.7258
M. NUMT	12	Heart	0.708	4.065	30.273	2.522	2.651	0.272	0.945	0.8941
M. mtDNA-only	12	Heart	1.024	6.03	43.056	3.588	3.759	0.567	1.966	3.8680
M. mtDNA	12	Heart	2.11	9.1	73.33	6.11	6.515	0.718	2.489	6.1963
C. NUMT	13	Liver	0.004	0.020	0.161	0.011	0.011	0.001	0.004	0
C. mtDNA-only	13	Liver	1.049	2.759	22.248	1.589	1.533	0.119	0.445	0.1988
C. mtDNA	13	Liver	1.06	2.78	22.41	1.600	1.545	0.120	0.449	0.2016
M. NUMT	14	Liver	0.480	1.876	14.370	1.026	0.969	0.097	0.366	0.1344
M. mtDNA-only	14	Liver	0.583	1.903	19.049	1.360	1.443	0.098	0.369	0.1366
M. mtDNA	14	Liver	1.11	3.78	33.42	2.387	2.42	0.190	0.713	0.5094
C. NUMT	40	Pooled	0.002	0.571	2.076	0.051	0.012	0.017	0.113	0.013
C. mtDNA-only	40	Pooled	0.701	11.89	117.35	2.933	1.926	0.388	2.456	6.032
C. mtDNA	40	Pooled	0.71	12.36	119.43	2.985	1.945	0.404	2.557	6.539
M. NUMT	39	Pooled	0.235	6.581	82.128	2.105	1.175	0.302	1.886	3.557
M. mtDNA-only	39	Pooled	0.583	6.279	88.001	2.256	1.657	0.265	1.655	2.739
M. mtDNA	39	Pooled	1.11	9.1	170.13	4.362	2.83	0.457	2.857	8.168