Supplementary Tables

Supplementary Table I: Gene expression of subunits of mitochondrial complexes in the mediodorsal thalamus in FFI and control cases normalized with XPNPEP1.

Thalamus	Probe	Control	FFI	P value	
Complex I	*NDUFA2*	1.02 ± 0.20	0.79 ± 0.17	0.06	-
	NDUFA7	1.02 ± 0.20	0.91 ± 0.34	0.50	-
	NDUFA10	1.00 ± 0.10	0.96 ± 0.13	0.49	-
	NDUFB3	1.02 ± 0.22	0.82 ± 0.15	0.10	-
	NDUFB7	1.02 ± 0.2	0.87 ± 0.26	0.31	-
	NDUFB10	1.02 ± 0.21	0.89 ± 0.23	0.34	-
	NDUFS7	1.02 ± 0.22	0.91 ± 0.20	0.37	-
	NDUFS8	1.01 ± 0.19	0.95 ± 0.41	0.73	-
Complex II	*SDHB*	1.03 ± 0.24	0.87 ± 0.17	0.21	-
Complex III	*UQCR11*	1.03 ± 0.26	0.94 ± 0.19	0.50	-
	UQCRB	1.06 ± 0.38	0.78 ± 0.31	0.20	-
Complex IV	*COX7A2L*	1.03 ± 0.27	0.87 ± 0.15	0.25	-
	COX7C	1.05 ± 0.37	1.01 ± 0.20	0.81	-
Complex V	*ATP5D*	1.02 ± 0.22	0.63 ± 0.08	0.004	**
	ATP5G2	1.01 ± 0.13	1.36 ± 0.48	0.09	-
	ATP5H	1.02 ± 0.21	0.85 ± 0.20	0.18	-
	ATP5L	1.01 ± 0.19	0.98 ± 0.20	0.76	-
	ATP5O	1.02 ± 0.19	0.80 ± 0.19	0.09	-
	ATP6V0B	1.06 ± 0.39	0.87 ± 0.15	0.34	-
	ATP6V1H1	1.13 ± 0.64	0.73 ± 0.13	0.21	-
	TOMM40	1.03 ± 0.25	0.80 ± 0.12	0.08	-

Supplementary Table II: Densitometric values of expression of mitochondrial proteins as revealed by western blotting in the mediodorsal thalamus in FFI cases and controls normalized with β-actin (A) and VDAC (B).

A

Protein	Control	FFI	P value	
NDUFB8	0.62 ± 0.12	0.44 ± 0.11	0.0257	*
SDHB	0.87 ± 0.11	0.65 ± 0.18	0.0426	*
UQCRB	1.87 ± 0.21	1.70 ± 0.36	0.34	-
UQCRC2	0.49 ± 0.09	0.38 ± 0.09	0.0462	*
COX2	0.77 ± 0.14	0.54 ± 0.09	0.0071	**
ATP5A	0.89 ± 0.05	0.85 ± 0.19	0.69	-
ATP5O	0.78 ± 0.20	0.52 ± 0.07	0.0227	*

B

Protein	Control	FFI	P value	
NDUFB8	0.77 ± 0.06	0.52 ± 0.12	0.0087	**
SDHB	1.10 ± 0.13	0.79 ± 0.15	0.0035	**
UQCRB	0.94 ± 0.16	0.88 ± 0.18	0.61	-
UQCRC2	0.62 ± 0.07	0.44 ± 0.07	0.0022	**
COX2	0.94 ± 0.06	0.58 ± 0.04	0.0001	****
ATP5A	1.21 ± 0.04	1.02 ± 0.23	0.08	-
ATP5O	1.08 ± 0.23	0.78 ± 0.22	0.09	-

Supplementary Table III: Gene expression of nucleolar proteins. 18S and 28S rRNAS and ribosomal proteins in the mediodorsal thalamus in FFI and control cases normalized with XPNPEP1.

Genes encoding for	Probe	Control	FFI	P Value	
Nucleolar proteins	*UBTF*	1.00 ± 0.05	0.88 ± 0.12	0.09	-
	NCL	1.01 ± 0.17	1.05 ± 0.12	0.69	-
	NPM1	1.01 ± 0.14	1.36 ± 0.31	0.027	*
rRNAs	*rRNA18S*	1.01 ± 0.19	1.30 ± 0.46	0.24	-
	rRNA28S	1.12 ± 0.56	2.93 ± 1.64	0.0287	*
Ribosomal proteins	*RPL5*	1.01 ± 0.14	1.17 ± 0.15	0.09	-
	RPL7	1.03 ± 0.25	1.27 ± 0.11	0.13	-
	RPL21	1.05 ± 0.34	0.87 ± 0.37	0.40	-
	RPL22	1.00 ± 0.09	1.48 ± 0.56	0.09	-
	RPL23A	1.03 ± 0.27	1.14 ± 0.10	0.42	-
	RPL26	1.03 ± 0.27	0.80 ± 0.44	0.13	-
	RPL27	1.03 ± 0.25	1.44 ± 0.46	0.09	-
	RPL30	1.03 ± 0.27	1.33 ± 0.22	0.08	-
	RPL31	1.03 ± 0.30	1.23 ± 0.15	0.21	-
	RPS3A	1.02 ± 0.22	1.20 ± 0.21	0.19	-
	RPS5	1.01 ± 0.19	1.55 ± 0.63	0.07	-
	RPS6	1.00 ± 0.04	1.53 ± 0.59	0.08	-
	RPS10	1.01 ± 0.12	1.04 ± 0.15	0.66	-
	RPS13	1.02 ± 0.22	1.17 ± 0.16	0.24	-
	RPS17	1.01 ± 0.13	1.28 ± 0.18	0.016	*
	RPS20	1.02 ± 0.22	1.65 ± 0.51	0.0295	*

Supplementary Table IV: Densitometric values of expression of initiation and elongation factors of protein transcription in the mediodorsal thalamus in FFI cases and controls normalized with β-actin

Protein	Control	FFI	P value	
NCL	1. 60 ± 0.33	1.04 ± 0.34	0.012	*
eIF2α	1.16 ± 0.22	0.95 ± 0.14	0.06	-
P- eIF2α	1.90 ± 0.65	1.35 ± 0.53	0.13	-
eIF5	2.12 ± 0.95	2.33 ± 1.08	0.72	-
eEF1A	2.07 ± 0.17	1.59 ± 0.44	0.021	*
eEF2	1.17 ± 0.22	1.18 ± 0.30	0.91	-