

Supplemented data:

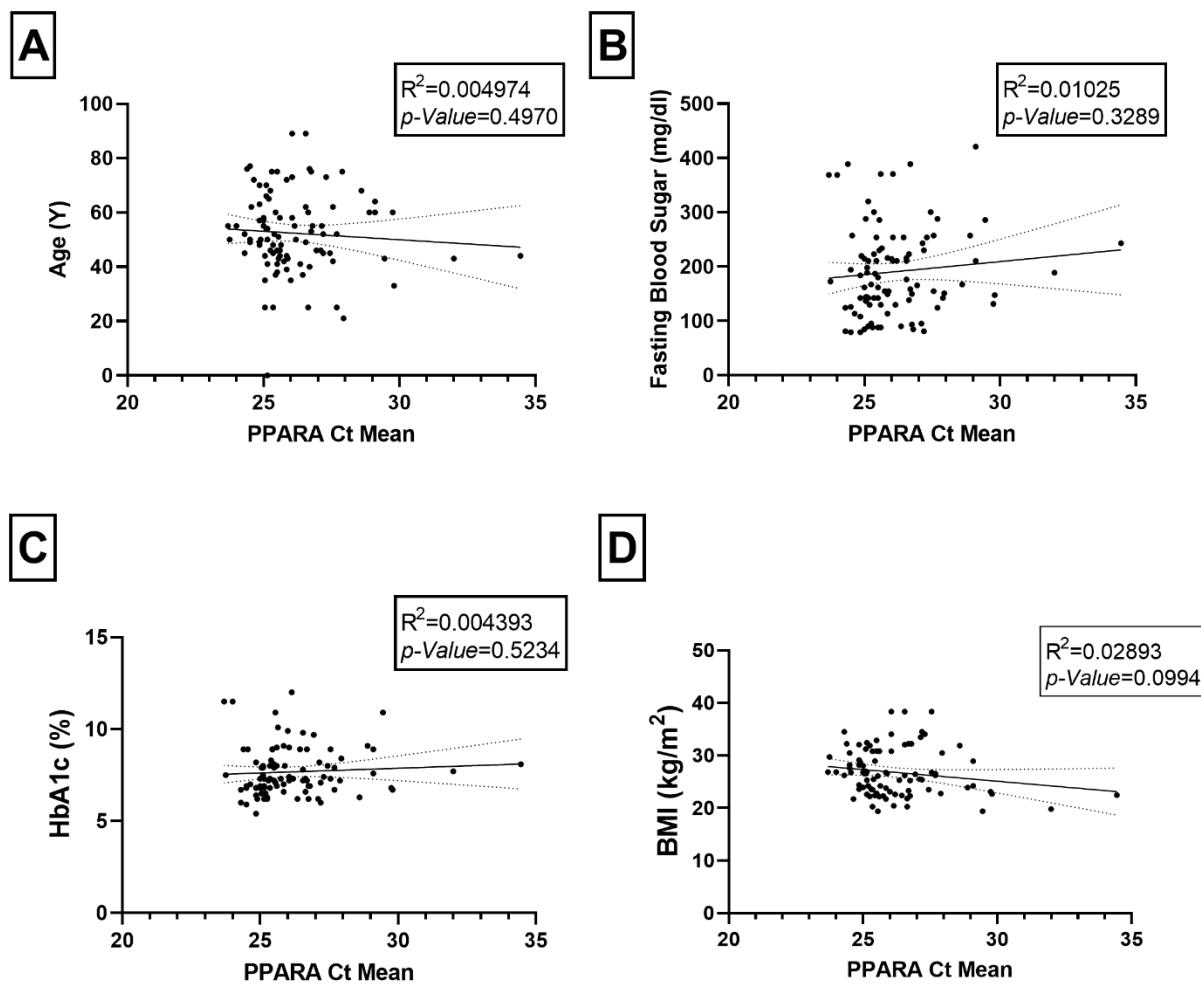


Figure S1: Correlation analysis between PPAR α gene expression and different T2DM Parameters.

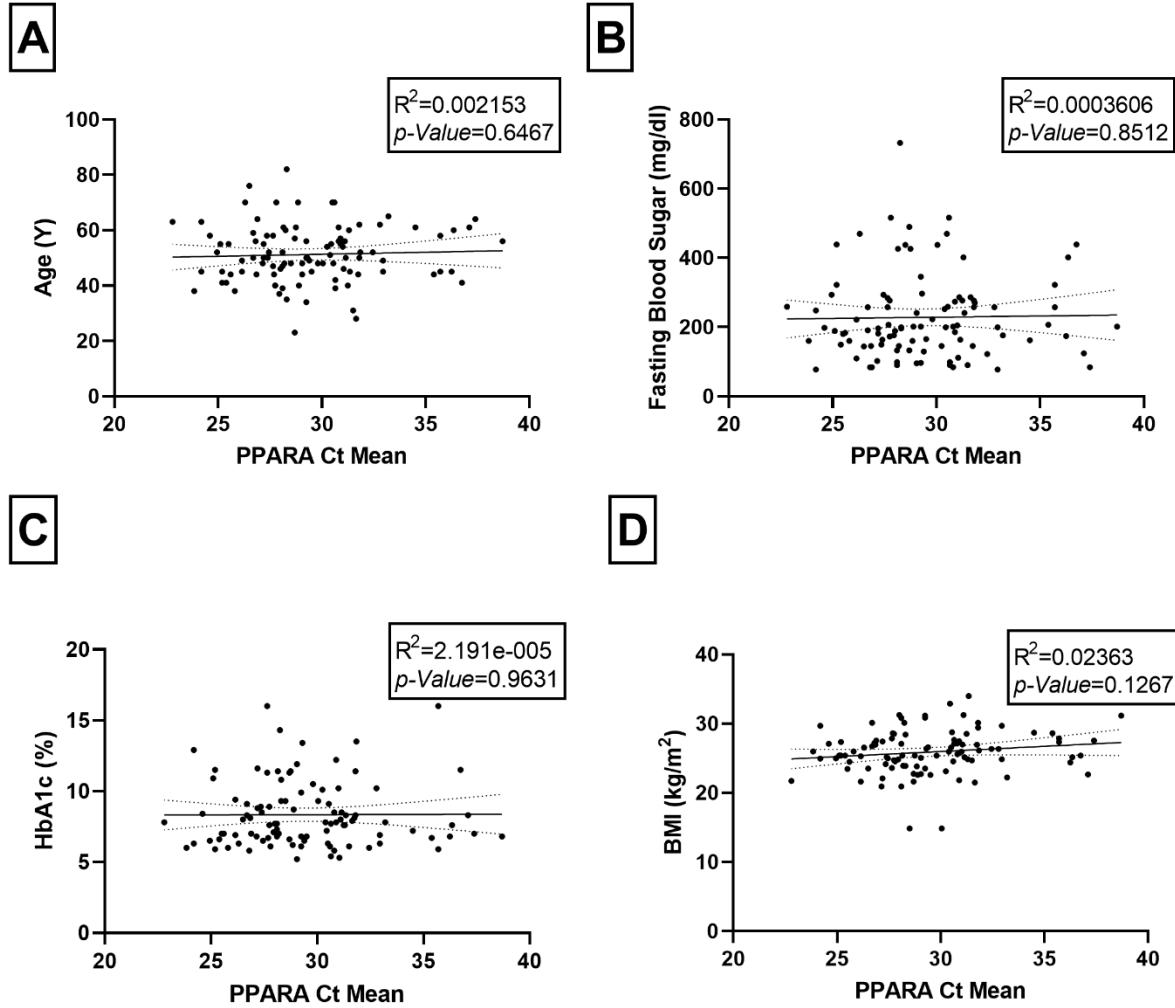


Figure S2: Correlation analysis between *PPAR α* gene expression and different DD Parameters.

Supplementary Table S1: Diagnostic criteria for normal levels of lipid profile.

Sr No.	Parameters	Normal Ranges	
		Male	Female
1	Total cholesterol	125-200 mg/dl 3.23- 5.17mmol/L	125-200 mg/dl 3.23- 5.17mmol/L
2	Triglycerides	130 mg/dl 1.47 mmol/L	130 mg/dl 1.47 mmol/L
3	Low-density lipoprotein-cholesterol	<100 mg/dl <2.58 mmol/L	<100 mg/dl <2.58 mmol/L
4	High-density lipoprotein-cholesterol	>50 mg/dl >1.0 mmol/L	>40 mg/dl >1.0 mmol/L

Supplementary Table S2: Diagnostic criteria for type 2 diabetes.

Sr No.	Parameters	Normal Ranges	
		Male	Female
1	Fasting blood glucose	>7.0 mmol/L 126mg/dl	>7.0 mmol/L 126mg/dl
2	2 hours post-load plasma glucose	11.1 mmol/L 200 mg/dl	11.1 mmol/L 200 mg/dl
3	Random plasma glucose	11.1 mmol/L 200 mg/dl	11.1 mmol/L 200 mg/dl
4	HbA1c	6.5%	6.5%

Supplementary Table S3: Gender-adjusted regression analysis of PPAR α expression.

	<i>p</i> -values of the control group (n=100) after regression analysis with PPAR α expression		<i>p</i> -values of T2DM group (n=100) after regression analysis with PPAR α expression.		<i>p</i> -values of DD group (n=100) after regression analysis with PPAR α expression.	
	Male	Female	Male	Female	Male	Female
Age	0.666	0.972	0.775	0.306	0.256	0.153
HbA1c (mmol/mol)	0.004	0.445	0.125	0.937	0.295	0.474

Fasting blood glucose (mg/dl)	0.035	0.780	0.016	0.841	0.766	0.861
tchol (mg/dl)	0.472	0.461	0.28	0.96	0.593	0.875
TAGS (mg/dl)	0.383	0.427	0.491	0.547	0.054	0.872
LDL (mg/dl)	0.396	0.225	0.586	0.592	0.724	0.323
HDL (mg/dl)	0.108	0.822	0.953	0.289	0.756	0.718