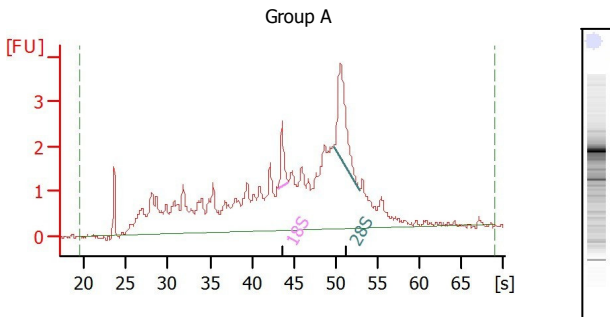


Electronic supplementary file 2

Nonlinear Molecular Dynamics of Quercetin in *Gynocardia odorata* and *Diospyros malabarica* fruits: Its mechanistic role in hepatoprotection

Arabinda Ghosh^{1†}, Pranjal Sarmah^{2†}, Harun Patel³, Nobendu Mukerjee⁴, Rajbardhan Mishra⁵, Saad

Alkahtani^{6**}, Rajender S.Varma⁷, Debabrat Baishya^{2*}

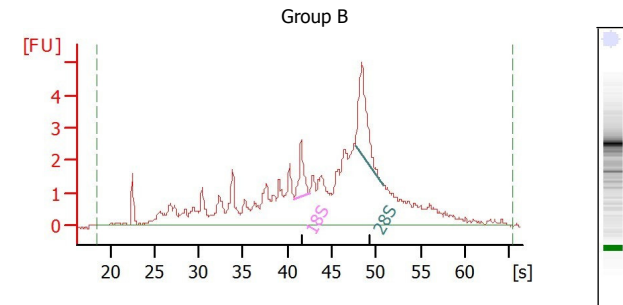


Overall Results for sample 1 : **G A**

RNA Area: 71.4
 RNA Concentration: 248 ng/ μ l
 rRNA Ratio [28s / 18s]: 3.3
 RNA Integrity Number (RIN): 4.2 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 4.20

Fragment table for sample 1 : **G A**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	43.10	44.35	1.5	2.1
28S	49.75	52.75	4.8	6.7

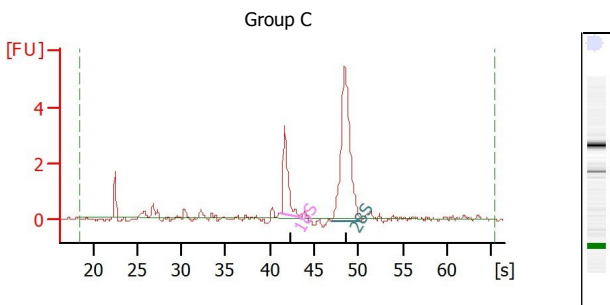


Overall Results for sample 2 : **G B**

RNA Area: 83.5
 RNA Concentration: 291 ng/ μ l
 rRNA Ratio [28s / 18s]: 2.5
 RNA Integrity Number (RIN): 4.5 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 4.50

Fragment table for sample 2 : **G B**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.78	42.44	2.4	2.9
28S	47.66	50.84	6.2	7.4

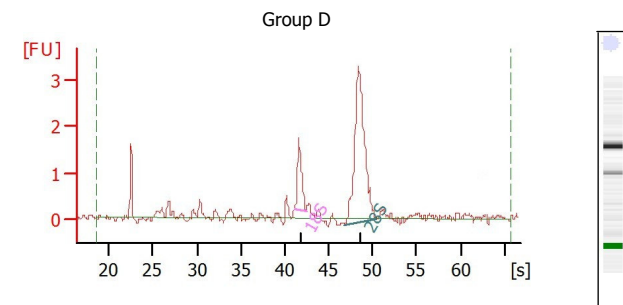


Overall Results for sample 3 : **G C**

RNA Area: 22.4
 RNA Concentration: 78 ng/ μ l
 rRNA Ratio [28s / 18s]: 3.0
 RNA Integrity Number (RIN): 8 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN:8

Fragment table for sample 3 : **G III**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.25	43.53	4.6	20.3
28S	47.09	50.27	13.5	60.4

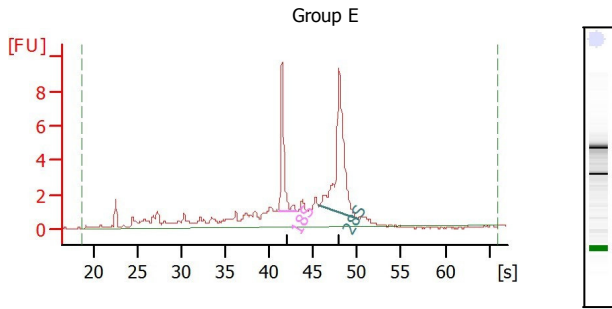


Overall Results for sample 4 : **G D**

RNA Area: 16.6
 RNA Concentration: 58 ng/ μ l
 rRNA Ratio [28s / 18s]: 4.4
 RNA Integrity Number (RIN): 7.4 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 7.40

Fragment table for sample 4 : **G IV**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.09	42.43	2.0	12.3
28S	46.76	50.29	8.9	53.6

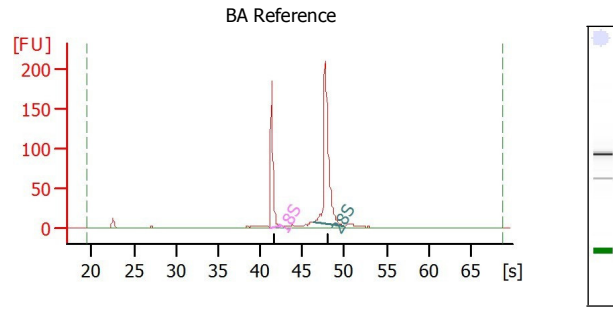


Overall Results for sample 5 : GE

RNA Area: 73.5
 RNA Concentration: 256 ng/μl
 rRNA Ratio [28s / 18s]: 2.2
 RNA Integrity Number (RIN): 7.5 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 7.50

Fragment table for sample 5 : GV

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.07	43.23	8.2	11.2
28S	45.67	50.07	17.8	24.2

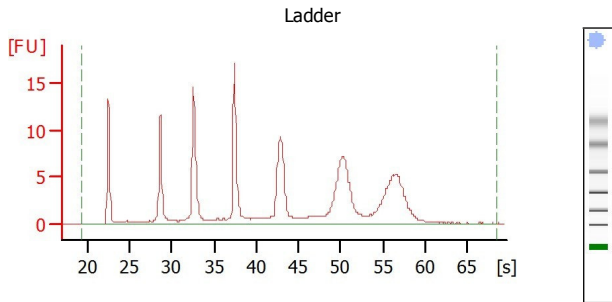


Overall Results for sample 6 : BA Reference

RNA Area: 533.0
 RNA Concentration: 489 ng/μl
 rRNA Ratio [28s / 18s]: 1.9
 RNA Integrity Number (RIN): 10 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN:10

Fragment table for sample 6 : BA Reference

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.06	42.31	140.5	26.4
28S	46.35	49.89	269.8	50.6



Overall Results for sample 7 : Ladder

RNA Area: 163.5
 RNA Concentration: 150 ng/μl
 Result Flagging Color:
 Result Flagging Label: All Other Samples

Fragment table for sample 7 : Ladder

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.06	42.31	140.5	26.4
28S	46.35	49.89	269.8	50.6

Fig. S3. Qualitative and quantitative assessment of purified RNA from each individual groups GA-GE.

Supplementary Table (ST)

Table ST3. Quality assessment of RNA purification from the liver tissue sample having purity, yield and concentration.

SL.No	Sample ID	260/280	260/230	ng/ul	Yield (ng)	QC Purity	QC Conc./Yield
1	GroupA (GA)	2.14	2.07	610.8	12216	Optimal	Optimal
2	GroupB (GB)	2.08	1.23	564.4	11288	Optimal	Optimal
3	GroupC (GC)	2.13	1.4	208.4	4168	Optimal	Optimal
4	GroupD (GD)	2.13	0.85	334.6	6692	Optimal	Optimal
5	Group E (GE)	2.13	2.16	882.3	17646	Optimal	Optimal