

Article

Exploring in vivo Dynamics of Bovine Milk Derived Gangliosides

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Supplementary Materials

Table S1. MS conditions for GM3 ganglioside analysis

Ganglioside Species	MRM	Retention Time (min)
GM ₃ (32:1)	1123.7→290.1	2.02
GM ₃ (34:2)	1149.7→290.1	2.13
GM ₃ (34:1)	1151.7→290.1	2.57
GM ₃ (36:2)	1177.7→290.1	2.70
GM ₃ (36:1)	1179.7→290.1	3.20
GM ₃ (38:2)	1205.8→290.1	3.32
GM ₃ (38:1)	1207.7→290.1	3.85
GM ₃ (40:2)	1233.8→290.1	4.00
GM ₃ (40:1)	1235.8→290.1	4.70
GM ₃ (42:2)	1261.8→290.1	4.80
GM ₃ (42:1)	1263.8→290.1	5.30

MRM, multiple reaction monitoring

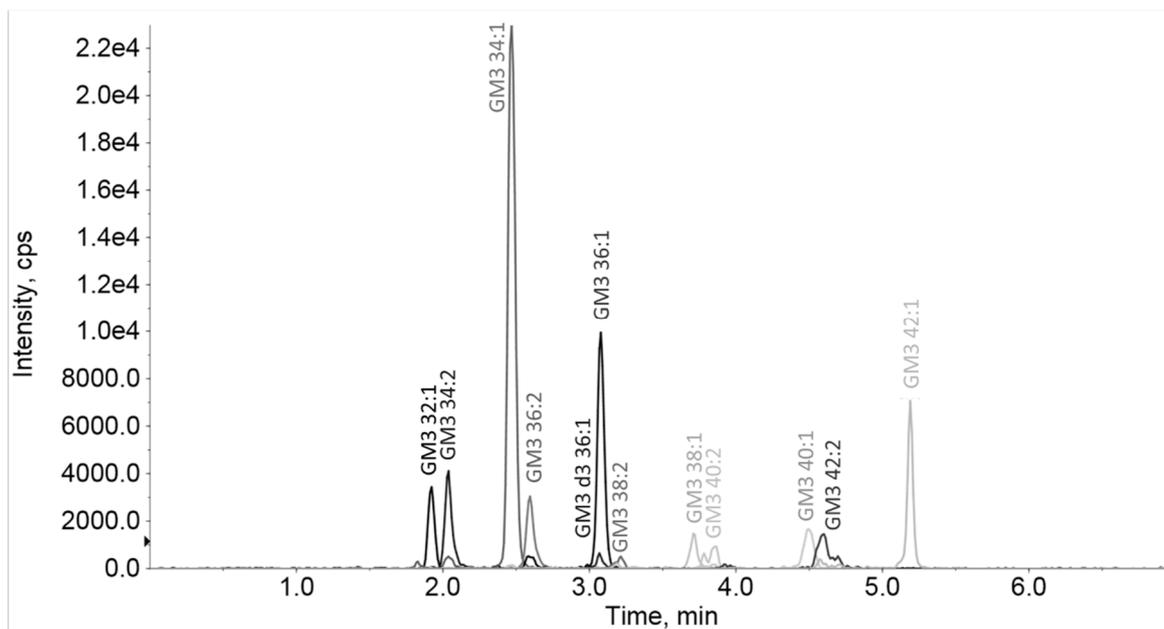


Figure S1. Chromatogram illustrating a participant's MS results

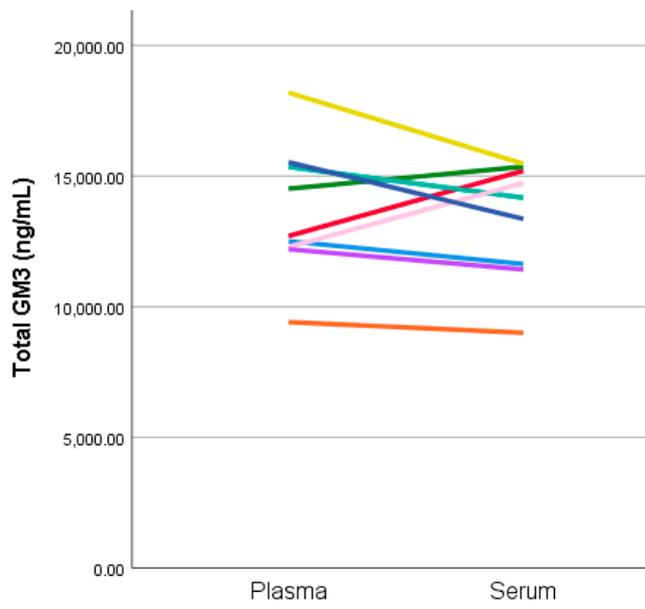


Figure S2. Individual participant differences in total GM3 (mg/mL) between serum and plasma samples (samples at 3 months, T0, -20°C)

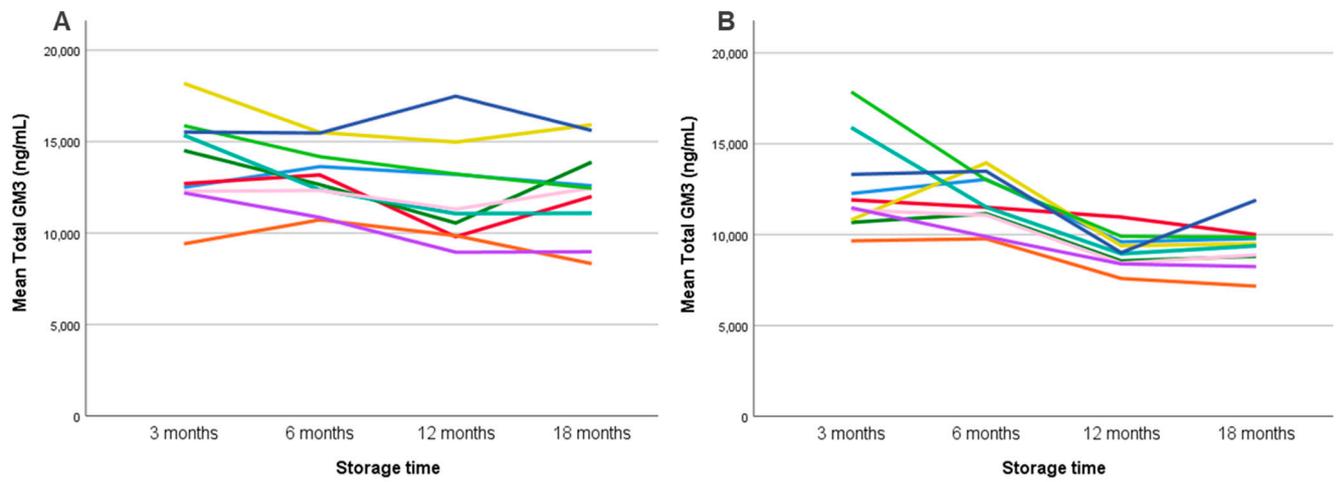


Figure S3. Individual participant changes in plasma total GM3 gangliosides stored over time at -20°C (A) and -70°C (B)

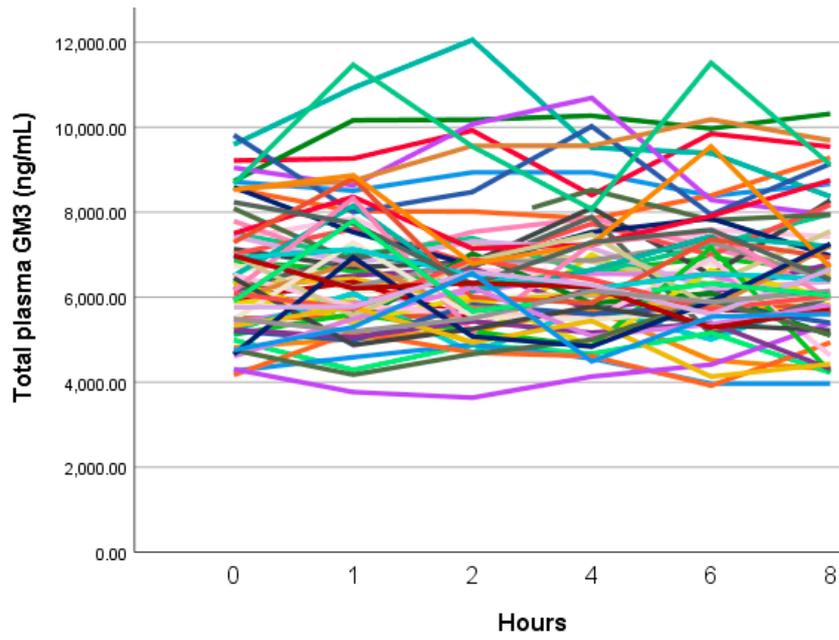


Figure S4. Changes in individual participant's total plasma GM3 concentrations over 8 hours (visit 2)

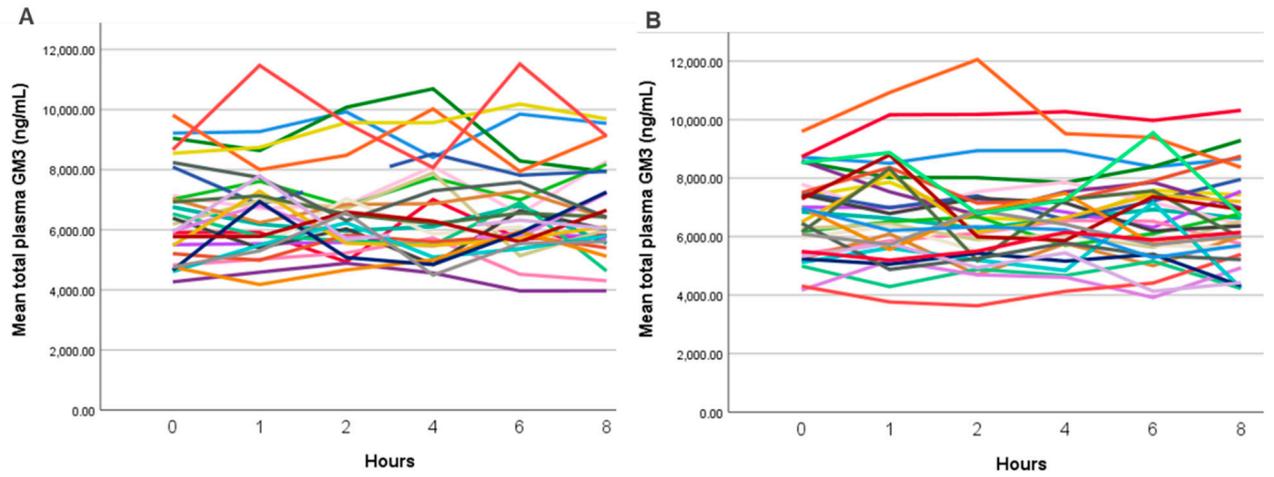


Figure S5. Changes in individual participant's total plasma GM3 concentrations over 8 hours after consumption of either high- (A, n=29) or low (B, n=32) ganglioside meals (visit 3)