

Supplementary Table 1. Metabolic Rates for 16 male individuals utilizing glucose (Gluc), fatty-acid (FA) or lactate-ketones-alcohol (LKA). Metabolic rates are \log_{10} residuals from regression of body mass *versus* substrate specific metabolism. G- southern Georgia individuals. M- northern Maine individuals. Fold differences are 10 raised to $(\log_{10} \max - \log_{10} \min)$ power.

	G1	G2	G3	G5	G7	G8	G9	G0	M2	M3	M4	M5	M6	M7	M8	M0	MIN	MAX	Fold difference
Log Gluc_RESID	0.059	-0.247	-0.015	-0.045	-0.111	-0.132	-0.034	-0.137	0.099	0.107	-0.042	0.082	0.023	0.144	0.043	0.128	-0.247	0.144	2.462
Log FA_RESID	0.041	-0.087	0.145	0.045	-0.150	-0.336	0.010	-0.341	0.159	0.018	-0.147	0.212	0.698	-0.147	-0.023	-0.044	-0.341	0.698	10.927
Log _LKA_RESID	0.048	-0.076	-0.160	-0.042	-0.110	-0.090	0.074	-0.141	0.083	0.062	-0.271	-0.065	0.070	-0.040	0.035	-0.139	-0.271	0.083	2.259