**Table 1. Correlations between adiposity traits and measures of metabolic health in HS rats**

| | Body Weight | BMI_Tail_End | BMI_Tail_Base | EpiFat | RetroFat |
|---|---|---|---|---|---|
| Fasting Glucose | **0.1453** | 0.0952 | 0.0886 | **0.1931** | 0.1132 |
| | **(0.0012)** | (0.76) | (1) | **(3.24e-05)** | (0.1009) |
| Fasting Insulin | **0.1936** | 0.1153 | -0.0248 | **0.4314** | **0.3516** |
| | **(3.48-07)** | (0.091) | (1) | **(1.35e-31)** | **(4.75e-27)** |
| Fasting Total Cholesterol | **0.2644** | **0.2428** | 0.1172 | **0.2535** | **0.3529** |
| | **(7.10e-11)** | **(5.75e-09)** | (0. 39) | **(6.85e-10)** | **(1.02e-20)** |
| Fasting Triglycerides | 0.1291 | **0.2426** | 0.0950 | **0.3096** | **0.3499** |
| | (0.12) | **(6.07e-09)** | (1) | **(1.75e-15)** | **(2.55e-20)** |
| Glucose_AUC | **0.1378** | **0.1259** | 0.0652 | **0.1663** | **0.1718** |
| | **(0.0040)** | **(0.0214)** | (1) | **(0.0016)** | **(1.71e-05)** |
| Insulin_AUC | **0.2937** | **0.2238** | 0.0312 | **0.4670** | **0.4397** |
| | **(5.67e-18)** | **(7.99e-10)** | (1) | **(2.71e-37)** | **(8.79e-44)** |
| QUICKI | **-0.2042** | -0.1198 | 0.0211 | **-0.4338** | **-0.3544** |
| | **(3.91e-08)** | (0.0523) | (1) | **(5.24e-32)** | **(1.57e-27)** |
| IGI | **0.1629** | **0.1220** | 0.0001 | **0.2475** | **0.2038** |
| | **(0.0001)** | **(0.0430)** | (1) | **(5.46e-09)** | **(5.46e-08)** |

Spearman's rank correlation with Bonferonni-adjusted p-values in parentheses (bold if <0.05). To mitigate potentially confounding effects of experimental covariates, correlations are performed on phenotypic residuals (ie, on the residuals after regressing out covariate effects from the rank-inverse normal transformed phenotype).