Supplementary Table 1

**Supplementary Table 1.** Correlation coefficients between ileal gene expression with metabolic and morphometric characteristics in all the rats from 14.5 and 17 weeks of diet intervention and in genetic obesity rats corrected by body weight.

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|  | **Diet intervention: 14.5 weeks** | | | | | |
|  | **iNOS** | **TNF-α** | **F4/80** | **ZO-1** | **OC1** | **Claudin-1** |
| **Anthropometric variables** | |  |  |  |  |  |
| Weight gain (%) | -0.368 | **0.954\*** | 0.426 | 0.297 | -0.061 | 0.029 |
| Mesenteric fat depot (g) | **-0.618\*** | -0.516 | **-0.689\*** | -0.189 | -0.048 | -0.129 |
| Adiposity (%) | -0.035 | **0.603\*** | 0.437 | 0.330 | 0.183 | -0.081 |
|  |  | | |  |  |  |
| **Metabolic variables** | |  |  |  |  |  |
| Insulin (mU/L) | **0.697\*** | -0.038 | -0.036 | -0.329 | 0.252 | 0.078 |
| Glucose (mg/dL) | 0.263 | -0.143 | -0.281 | -0.299 | 0.088 | -0.201 |
| HOMA-IR | **0.665\*** | -0.101 | -0.98 | -0.358 | 0.232 | 0.103 |
| Triglycerides (mg/dL) | **0.574\*** | **0.810\*** | **0.676\*** | 0.184 | **0.569\*** | -0.049 |

n = 12 animals. \*: *p-values< 0.05 are considered statistically significant.*

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|  | **Diet intervention: 17 weeks** | | | | | |
|  | **iNOS** | **TNF-α** | **F4/80** | **ZO-1** | **OC1** | **Claudin-1** |
| **Anthropometric variables** | |  |  |  |  |  |
| Weight gain (%) | 0.150 | 0.316 | 0.278 | -0.101 | -0.177 | -0.180 |
| Mesenteric fat depot (g) | -0.326 | 0.265 | 0.087 | -0.383 | 0.312 | -0.092 |
| Adiposity (%) | 0.073 | 0.712\* | 0.296 | -0.334 | -0.060 | -0.085 |
|  |  | | |  |  |  |
| **Metabolic variables** | |  |  |  |  |  |
| Insulin (mU/L) | -0.306 | 0.231 | -0.358 | -0.527 | 0.386 | -0.070 |
| Glucose (mg/dL) | **0.662\*** | 0.010 | **-0.707\*** | -0.440 | 0.343 | 0.021 |
| HOMA-IR | -0.112 | 0.174 | **-0.505\*** | **-0.491\*** | **0.486\*** | -0.016 |
| Triglycerides (mg/dL) | NA | NA | NA | NA | NA | NA |

n = 12 animals. \*: *p-values< 0.05 are considered statistically significant.*

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|  | **Genetic obesity** | | | | | |
|  | **iNOS** | **TNF-α** | **F4/80** | **ZO-1** | **OC1** | **Claudin-1** |
| **Anthropometric variables** | |  |  |  |  |  |
| Weight gain (%) | 0.364 | -0.202 | 0.077 | 0.210 | 0.230 | -0.098 |
| Mesenteric fat depot (g) | 0.357 | 0.089 | **0.487\*** | 0.283 | -0.020 | -0.103 |
| Adiposity (%) | 0.260 | 0.085 | **0.420\*** | 0.197 | 0.059 | -0.345 |
|  | |  |  |  |  |  |
| **Metabolic variables** | |  |  |  |  |  |
| Insulin (mU/L) | 0.317 | -0.036 | 0.399 | 0.199 | -0.088 | -0.063 |
| Glucose (mg/dL) | -0.257 | -0.178 | -0.353 | 0.091 | -0.102 | 0.000 |
| HOMA-IR | 0.254 | -0.168 | 0.305 | 0.183 | -0.144 | -0.016 |
| Triglycerides (mg/dL) | -0.136 | **0.554\*** | -0.169 | **-0.543\*** | -0.124 | **-0.483\*** |

n = 20 animals. \*: *p-values< 0.05 are considered statistically significant.*