Guide to the R markdown files.

Attie\_eQTL\_paper.Rmd contains the analysis of the physiological phenotypes, including:

* phenotype QA/QC,
* box plots of each phenotype,
* tests for sex, wave and time-on-diet effects,
* plot of body weight vs. food intake,
* phenotype correlation plots,
* DO founder allele frequency in the genotype data,
* QTL mapping.

Attie\_eQTL\_paper\_ME.Rmd contains the analysis of the WGCNA module eigengenes, including:

* Boxplots of the distribution of module eigengenes,
* module eigengene QTL mapping,
* module eigengene by sex boxplots,
* module eigengenes vs. physiological phenotype correlations.

Attie\_eQTL\_paper\_eQTL\_hotspots.Rmd contains the analysis if the eQTL hotspots, including:

* the selection of hotspots from the eQTL data,
* generation of eQTL hotspot principal components (PCs),
* QTL mapping of PC1 & PC2 for each eQTL hotspot,
* mediation analysis of each eQTL hotspot.