

Analysis of Mitochondrial OXPHOS protein Levels in the Quadriceps from Gestationally Treated MCP230 Mice on a High Fat Diet

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Details

Protein lysates were prepared using standard protocols and quantified via Bradford assay. Equal protein was loaded into 2x 12 well gradient gels. Proteins were separated by SDS-PAGE and transferred to Nitrocellulose membranes. Membranes were blotted using the mitochondrial OXPHOS antibody cocktail from ABCAM. Protein content was determined from fluorescent images obtained on a LiCor Odyssey and quantified using Image Studio Lite software. Protein expression was normalized to total AMPK expression -which was not different between groups- and is presented here relative to the saline control group

Data analysis

The data is saved in `/Users/davebridges/Documents/Source/ObesityParticulateTreatment/scripts/MitoProteinAnal`. The raw data file for the first run is named `PostReviewMitoWesterns.xlsx`.

Statistics

Figures

Session Information

- R version 3.2.2 (2015-08-14), x86_64-apple-darwin13.4.0
- Locale: en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
- Base packages: base, datasets, graphics, grDevices, methods, stats, utils
- Other packages: car 2.1-1, plyr 1.8.3, rJava 0.9-7, xlsx 0.5.7, xlsxjars 0.6.1
- Loaded via a namespace (and not attached): grid 3.2.2, lattice 0.20-33, lme4 1.1-10, MASS 7.3-45, Matrix 1.2-3, MatrixModels 0.4-1, mgcv 1.8-10, minqa 1.2.4, nlme 3.1-122, nloptr 1.0.4, nnet 7.3-11, parallel 3.2.2, pbkrtest 0.4-4, quantreg 5.19, Rcpp 0.12.2, SparseM 1.7, splines 3.2.2, tools 3.2.2

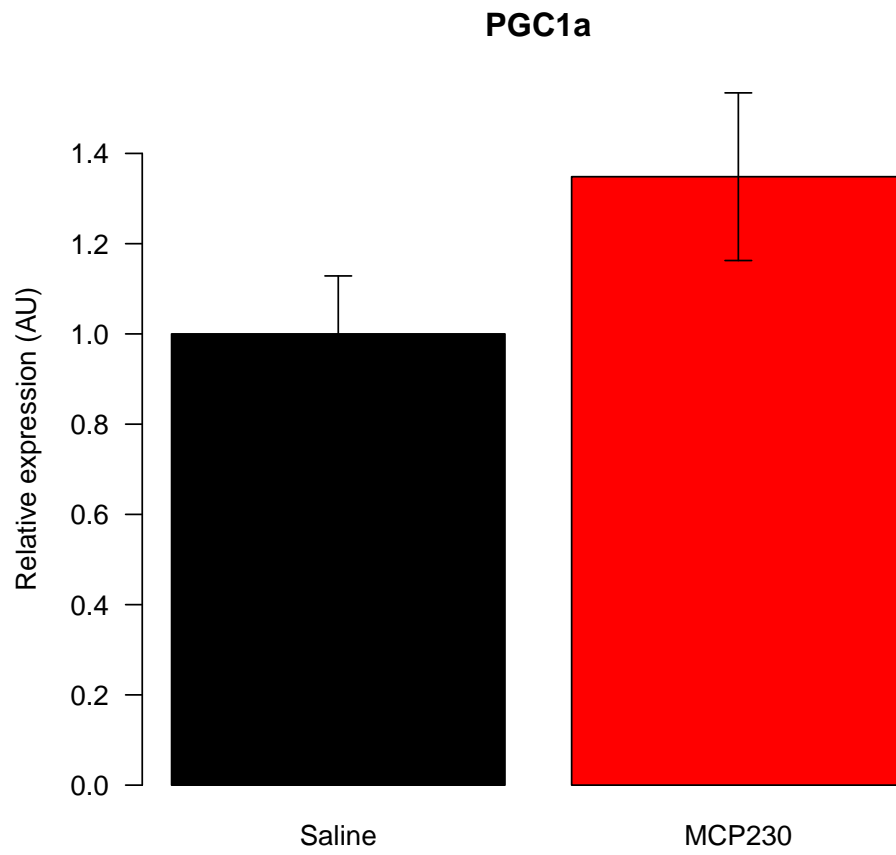


Figure 1: Barplot of Relative PGC1a Protein Expression in Quadriceps Muscle, Saline versus MPI

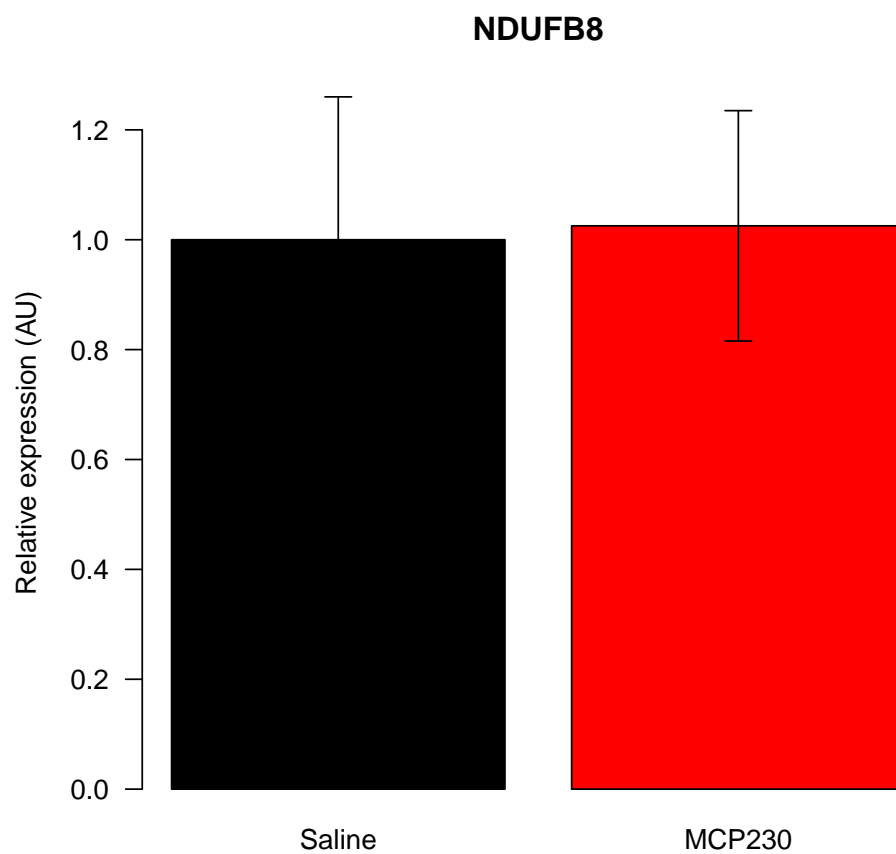


Figure 2: Barplot of Relative NDUFB8 Protein Expression in Quadriceps Muscle, Saline versus MPI

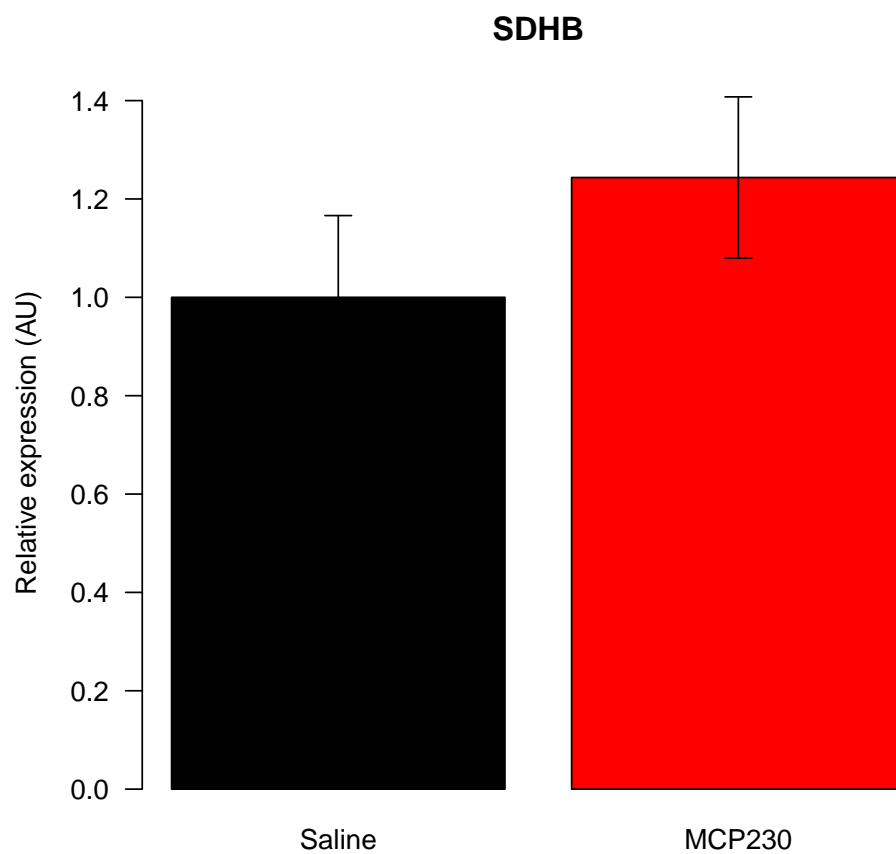


Figure 3: Barplot of Relative SDHB Protein Expression in Quadriceps Muscle, Saline versus MPI

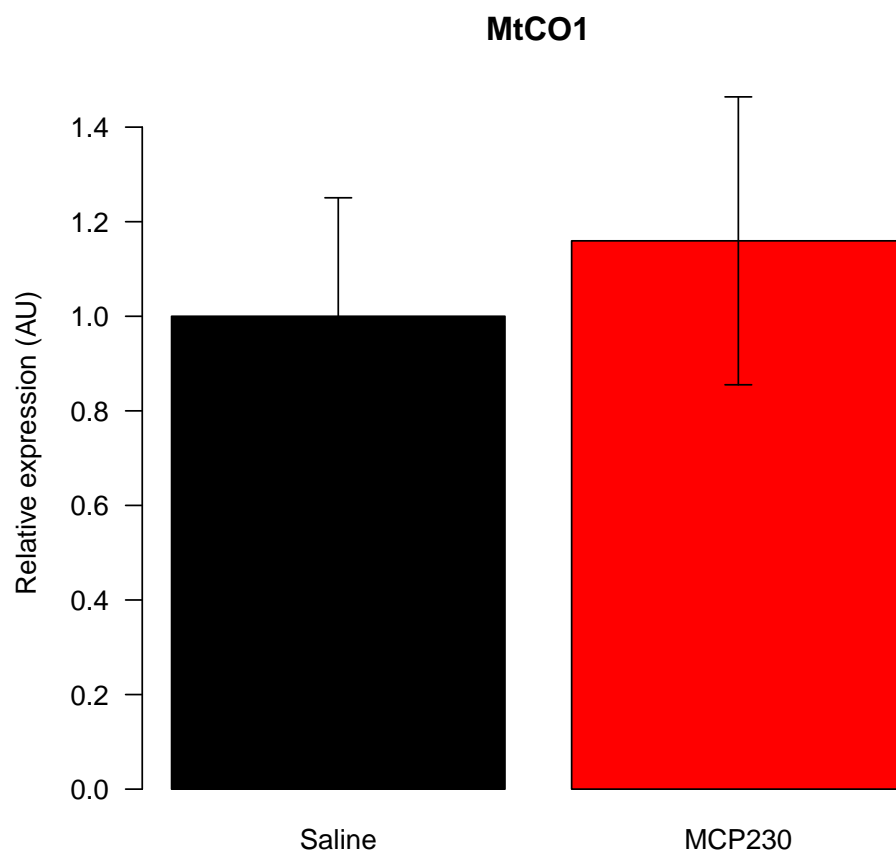


Figure 4: Barplot of Relative MtCo1 Protein Expression in Quadriceps Muscle, Saline versus MPI

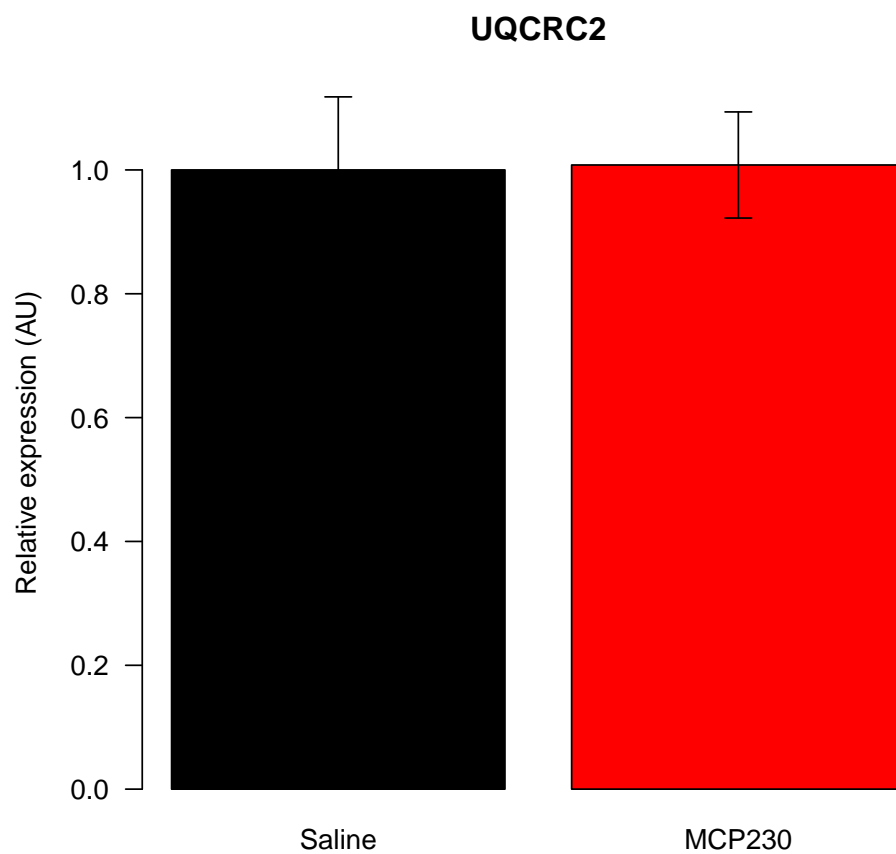


Figure 5: Barplot of Relative UQCRC2 Protein Expression in Quadriceps Muscle, Saline versus MPI

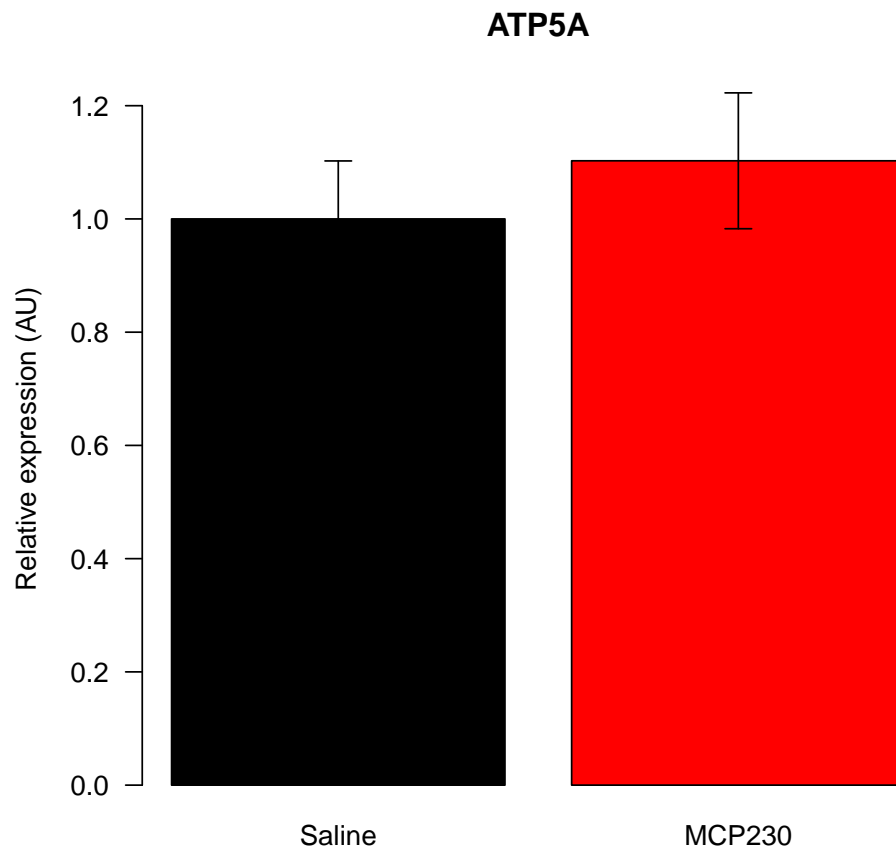


Figure 6: Barplot of Relative ATP5A Protein Expression in Quadriceps Muscle, Saline versus MPI

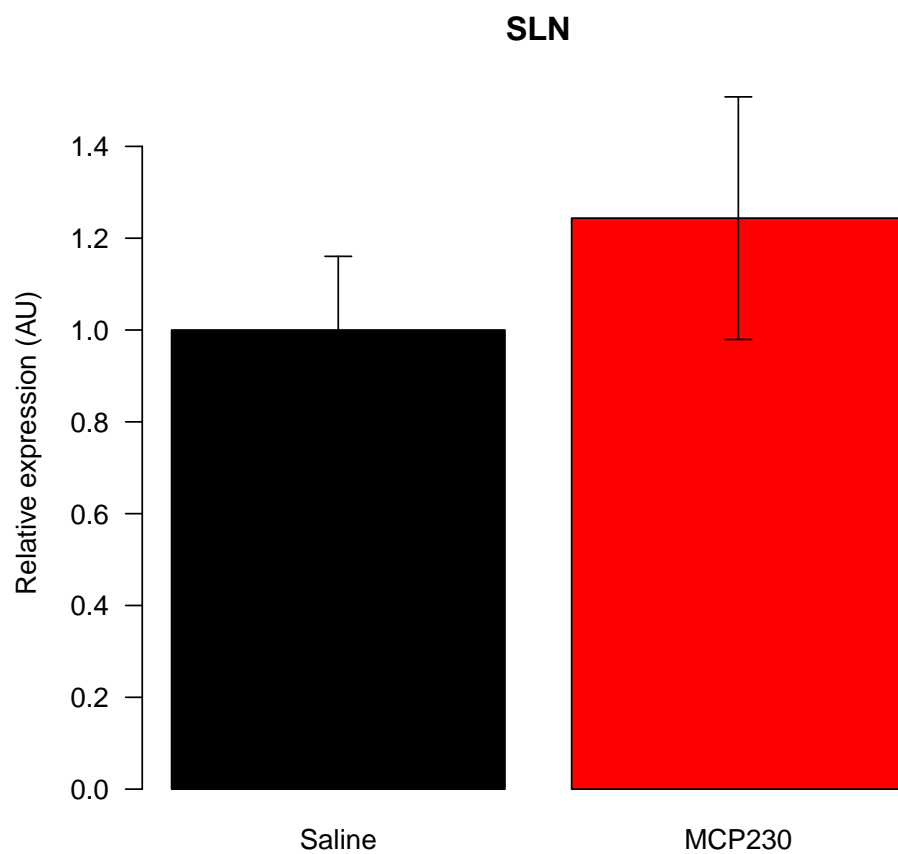


Figure 7: Barplot of Relative SLN Protein Expression in Quadriceps Muscle, Saline versus MPI

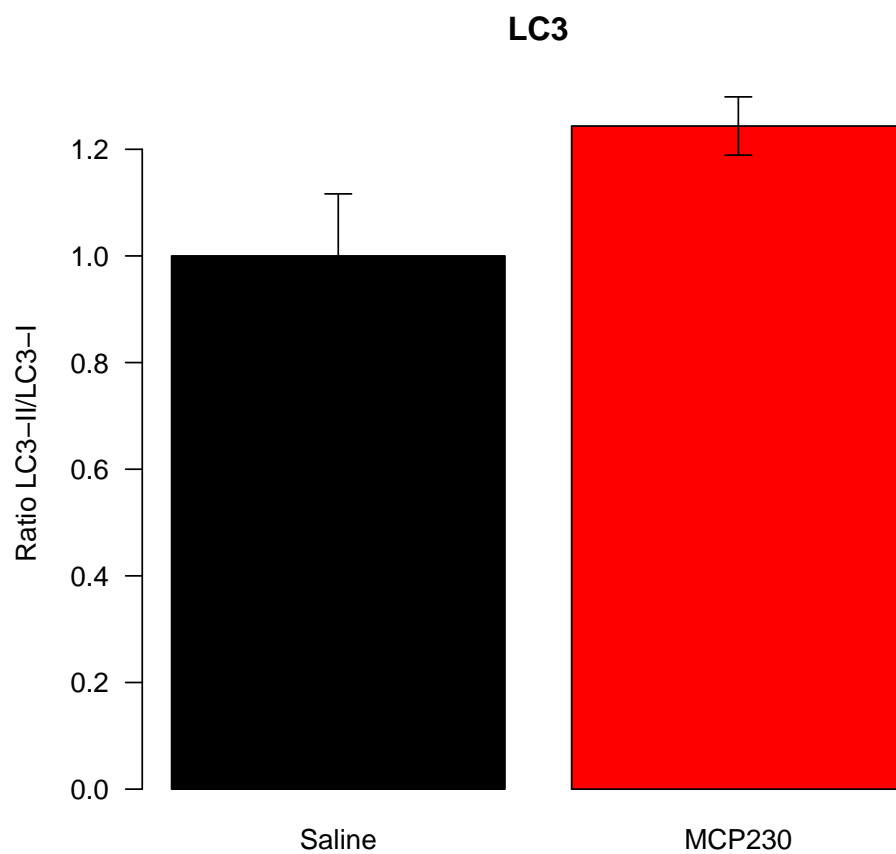


Figure 8: Barplot of LC3 Protein Expression in Quadriceps Muscle, Saline versus MCP230

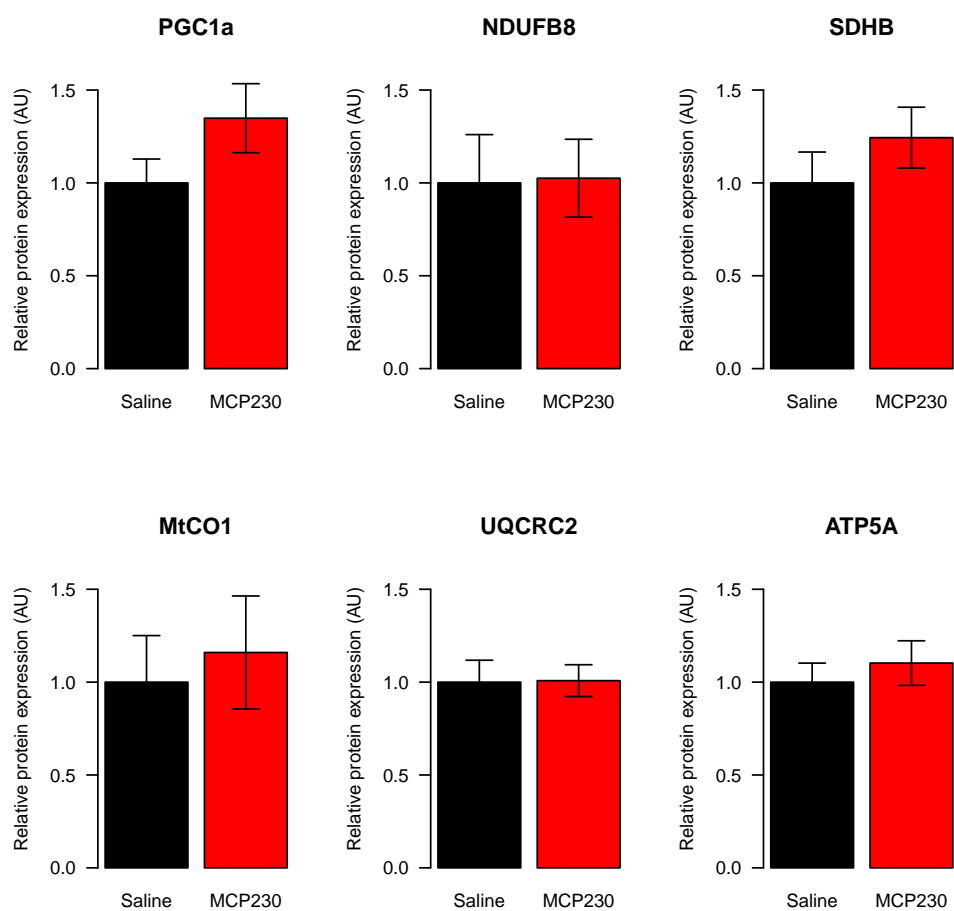


Figure 9: Barplot of the OXPHOS proteins