Article

Metabolic adaptation during nab-paclitaxel resistance in pancreatic cancer cell lines –   
Supplementary information

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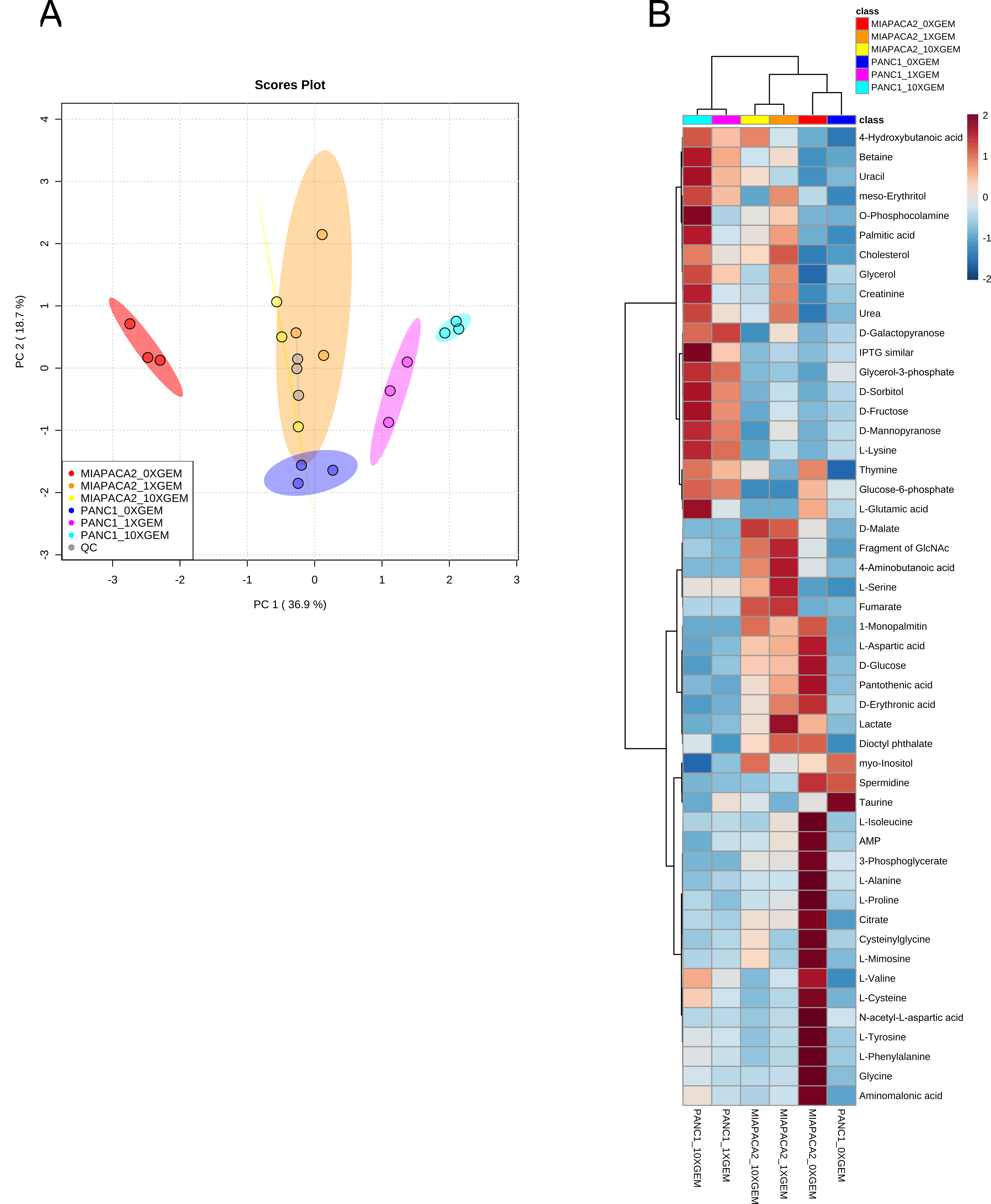
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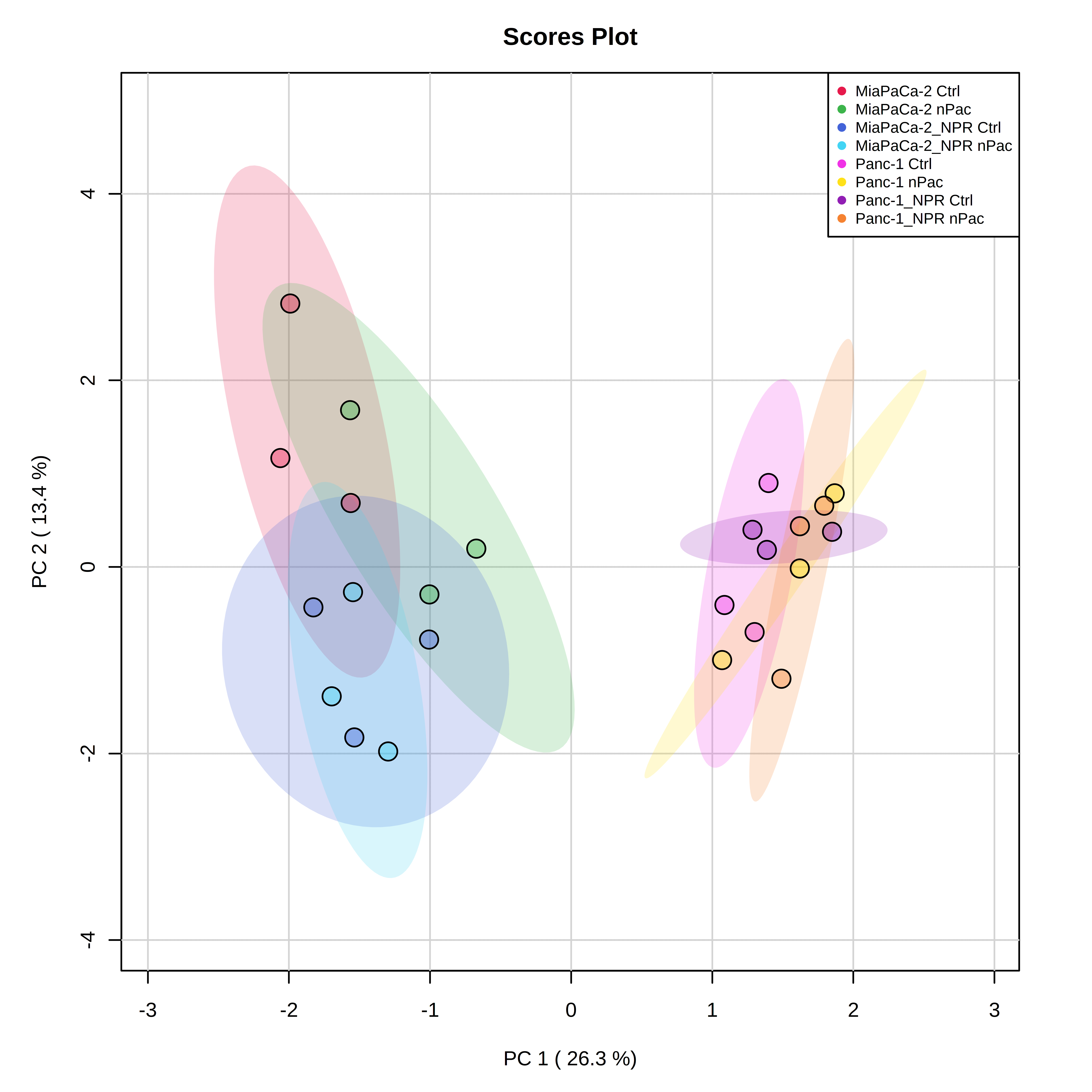
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Supplementary figure 1: Metabolomics analysis of gemcitabine treated MiaPaCa2 and Panc-1 cells: **A** principal component analysis of untreated (0xGEM), and treated (1XGEM and 10XGEM) pancreatic cancer cell lines. 1X and 10X Gem indicates treatment for 72 h with one-fold or ten-fold IC50 concentration as assessed by the resazurin viability assay. n=3. B Corresponding heat map analysis of significantly altered metabolites. Range-scaled z-scores are shown. n=3



Supplementary Figure 2: Principal component analysis of parental and resistant MiaPaCa-2 and Panc‑1 cells upon chemotherapy treatment for 72 h. nPac: nab-Paclitaxel treated; Ctrl: vehicle treated. n=3

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Supplementary Figure 3: Fold change to corresponding ctrl of aspartic acid (A) and N-carbamoyl-aspartic acid (B) in in parental and resistant MiaPaCa-2 and Panc-1 cell lines. Cells were treated (nPac) or not (ctrl) for 72 h. Most abundant ions were normalized for fold change analysis (232.2 *m/z* for A and 257 *m/z* for B, retention times have been proved by analytical standards). Error bars indicate S.E.M. \*p-value < 0.05 to untreated parental cell line, \*\* p-value < 0.01 to untreated parental cell line. n=3