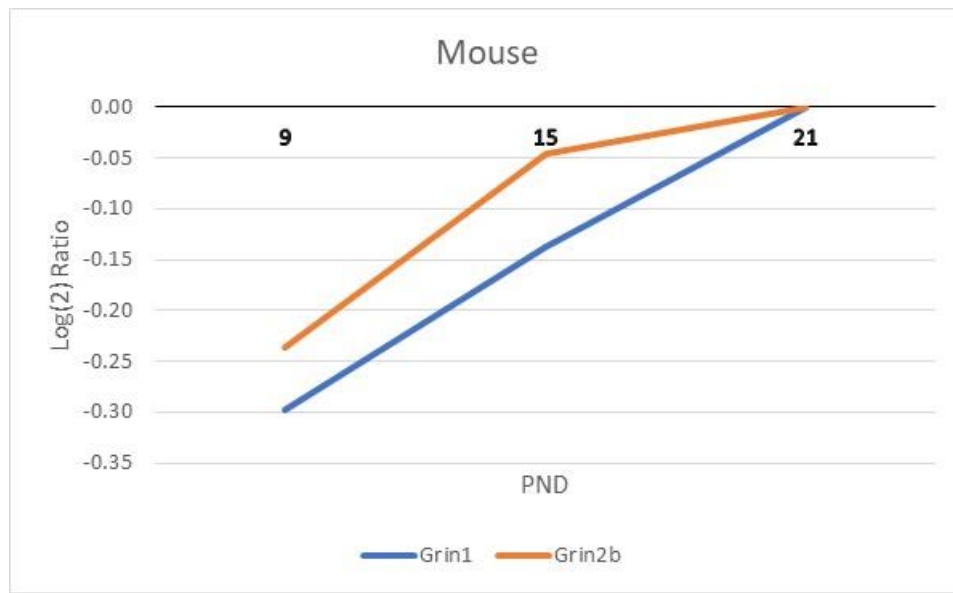
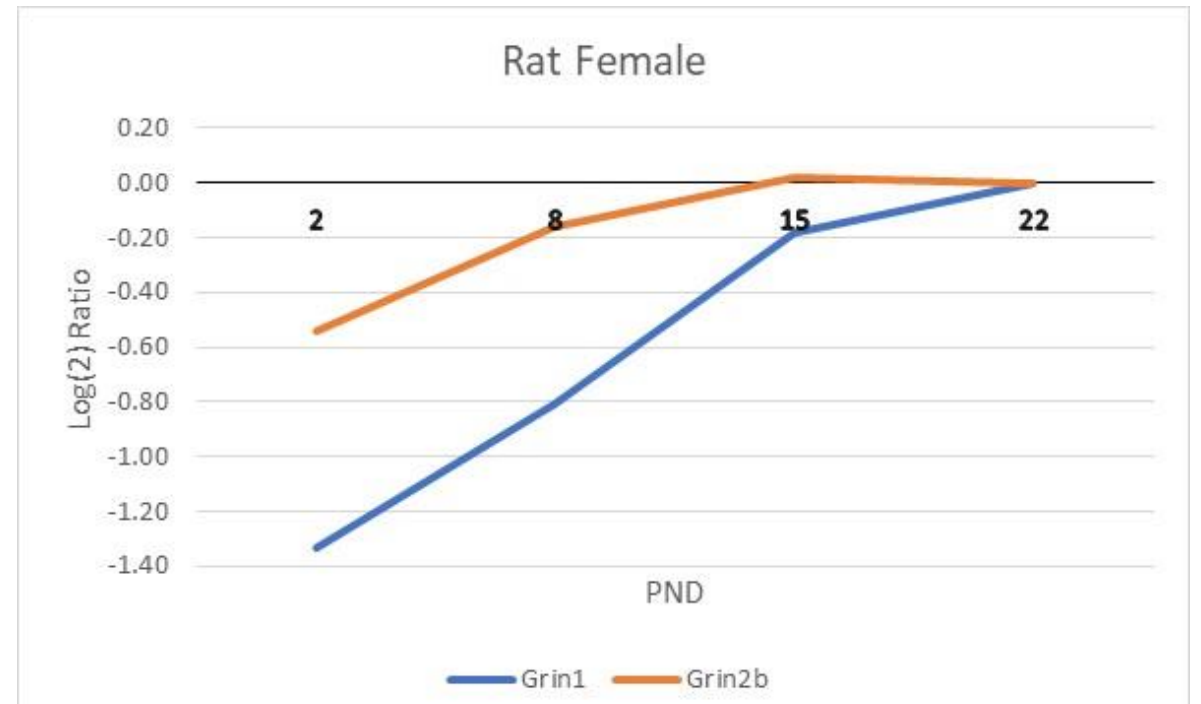
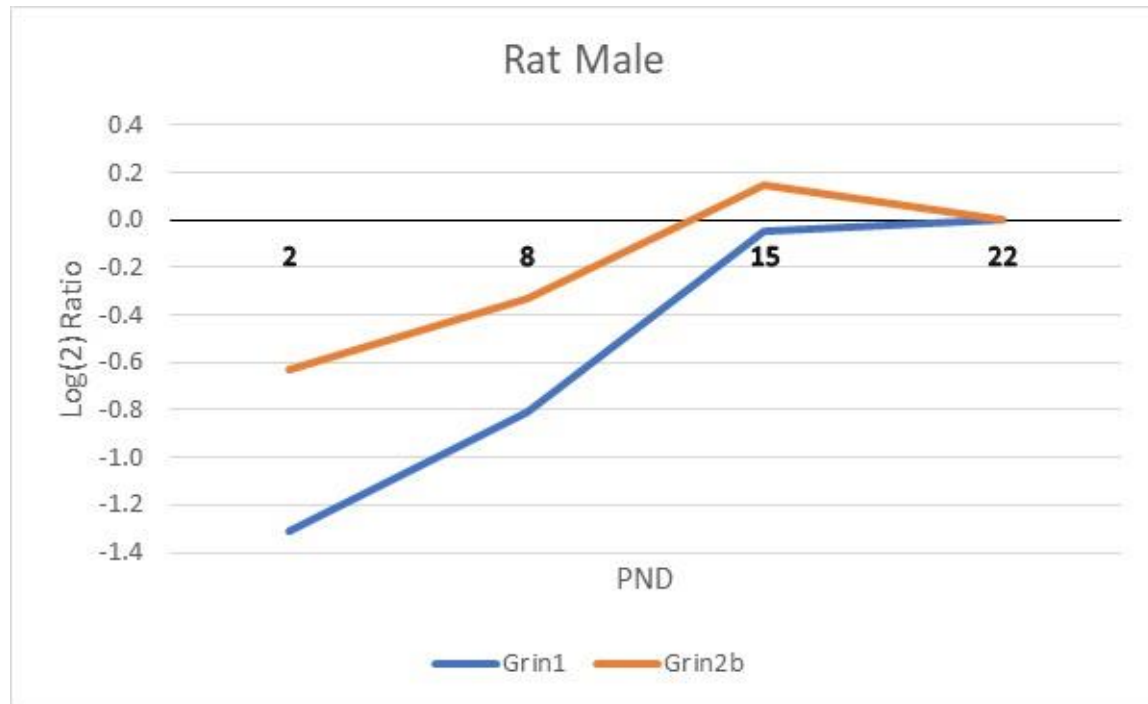


Caption for the supplementary S.Figures 1a-2c: The top left quadrants in **S.Fig. 1a-2c** show the mouse protein PND trendlines constructed from the *S.Table 1* data in [1] for the proteins in the corresponding figures 7a-8c in [1] which match the rat protein gene symbols in the current work. The bottom graphs show the male and the female rat trendlines matching the PND trendlines above (current work). The reference point for the mouse P9/P21, P15/P21 logarithmic protein abundance ratios is P21, and for the rat (current work) P2/P22, P8/P22, P15/P22 logarithmic protein abundance ratios the reference point is P22. The upper right quadrants of these figures show, whenever available, the reconstructed trendlines which match rat protein gene symbols in the current work for the quantifiable synaptic cortex rat proteins calculated from *Supplementary Table 5: Statistically significant changes in synaptosomal cortical proteome during development* in [7], for which the PND protein ratio reference point is P20.

S.Fig. 1a



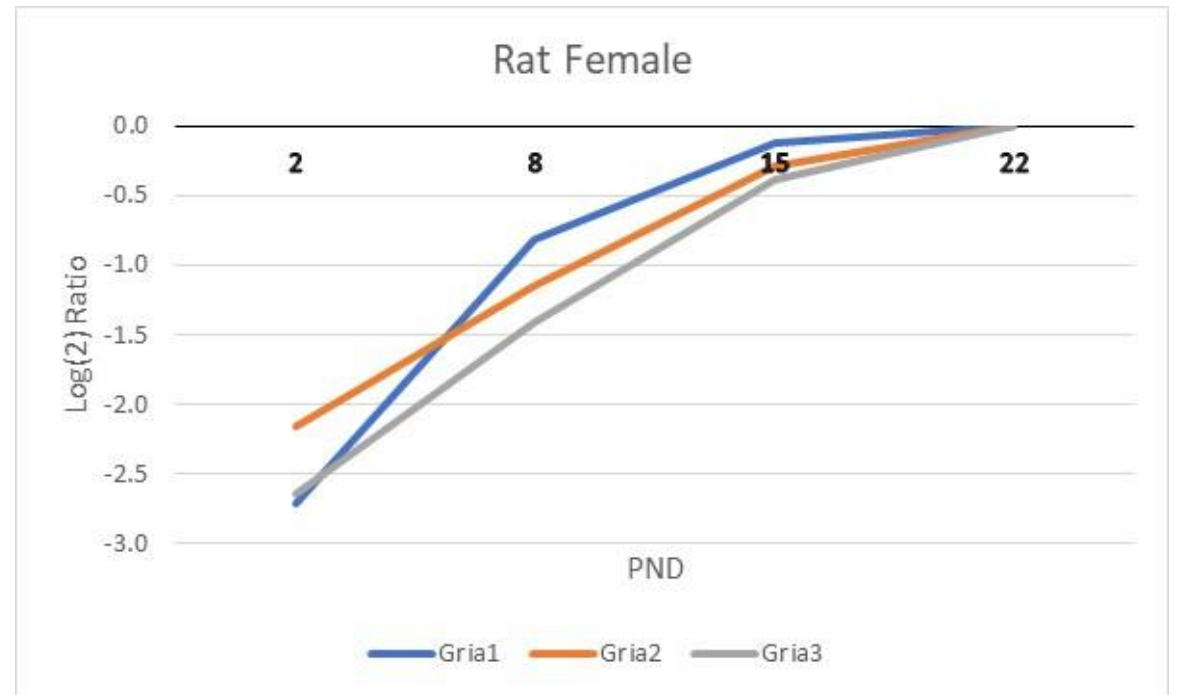
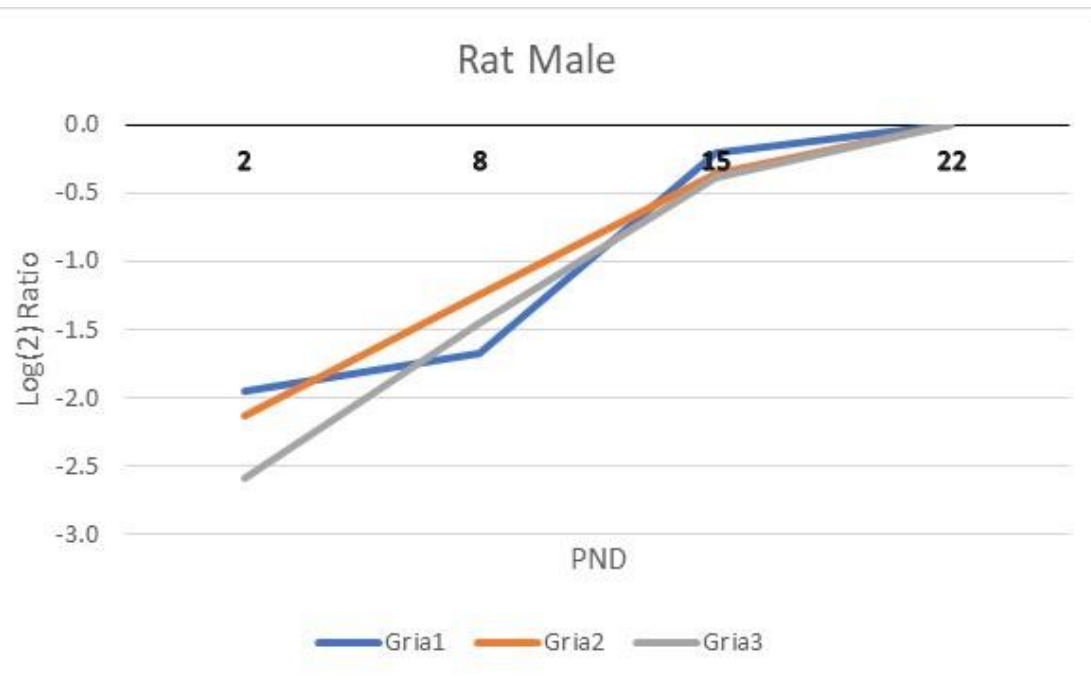
Reconstructed mouse data from [1], Fig. 7a vs the corresponding rat proteins



S.Fig. 1b



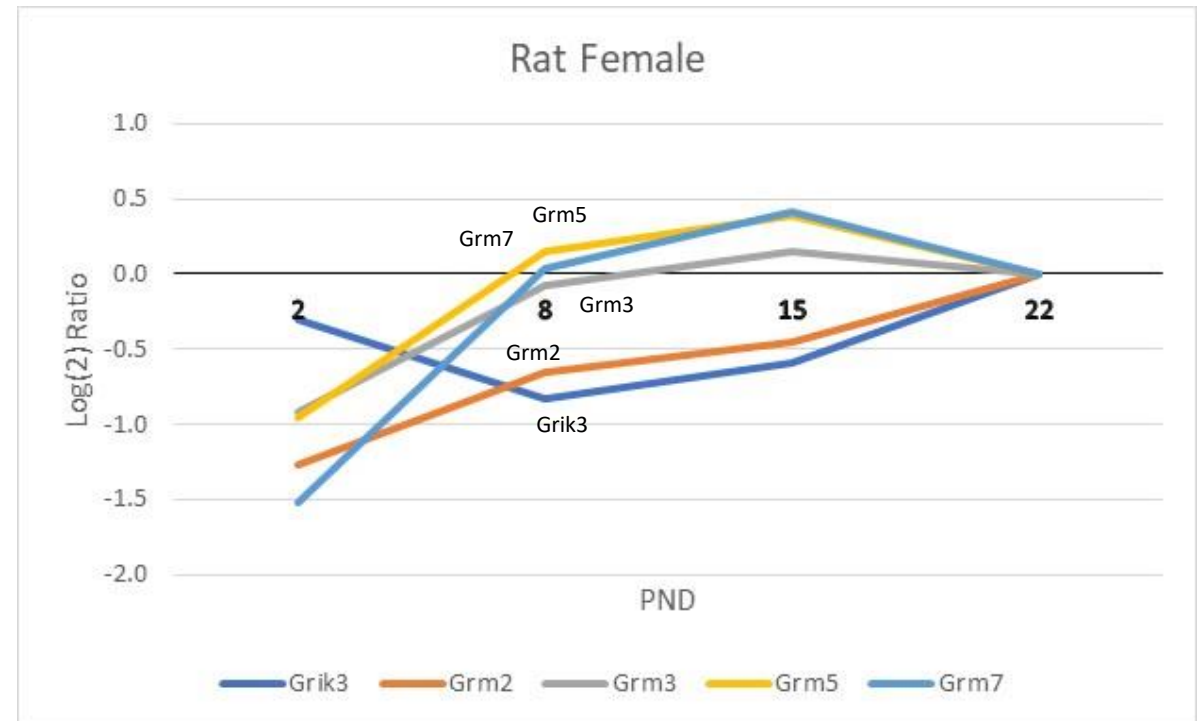
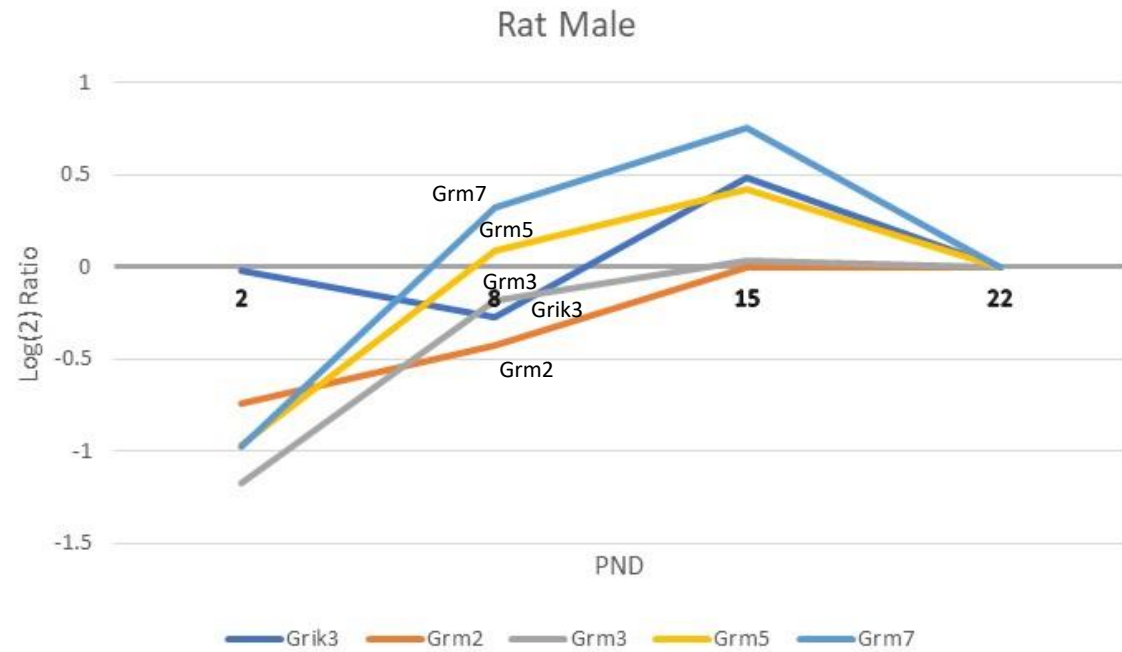
Reconstructed mouse data from [1], Fig. 7b vs the corresponding rat proteins



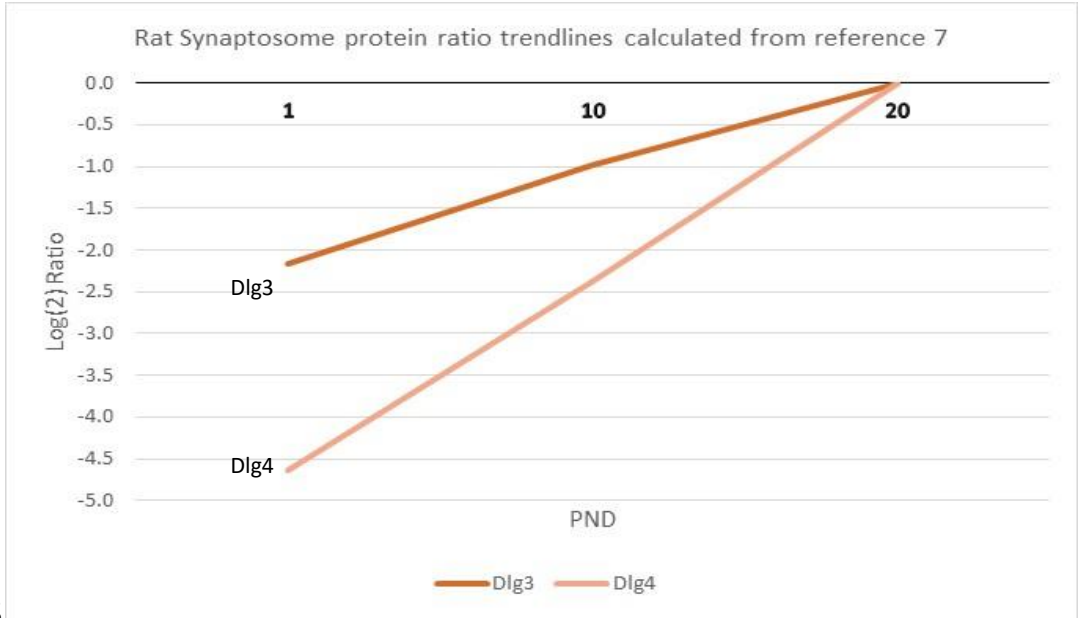
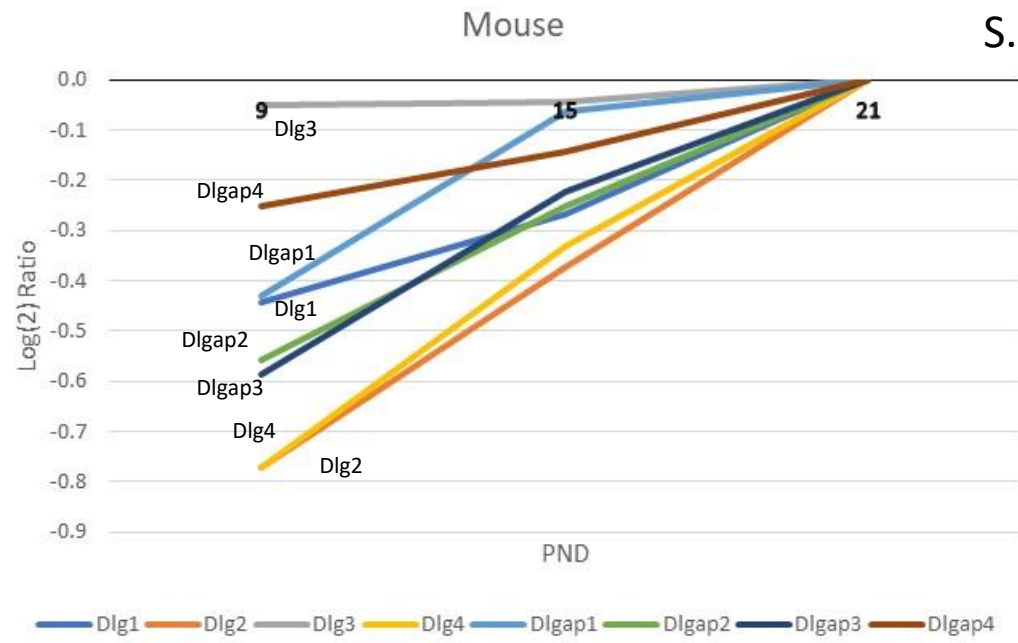
S.Fig. 1c



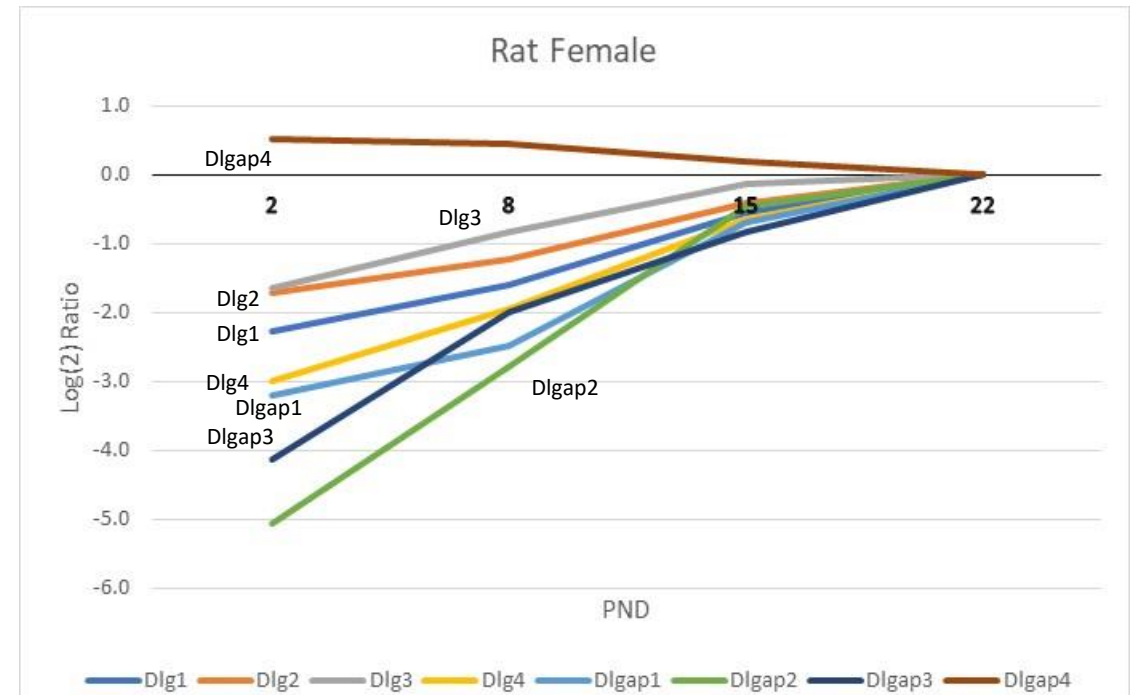
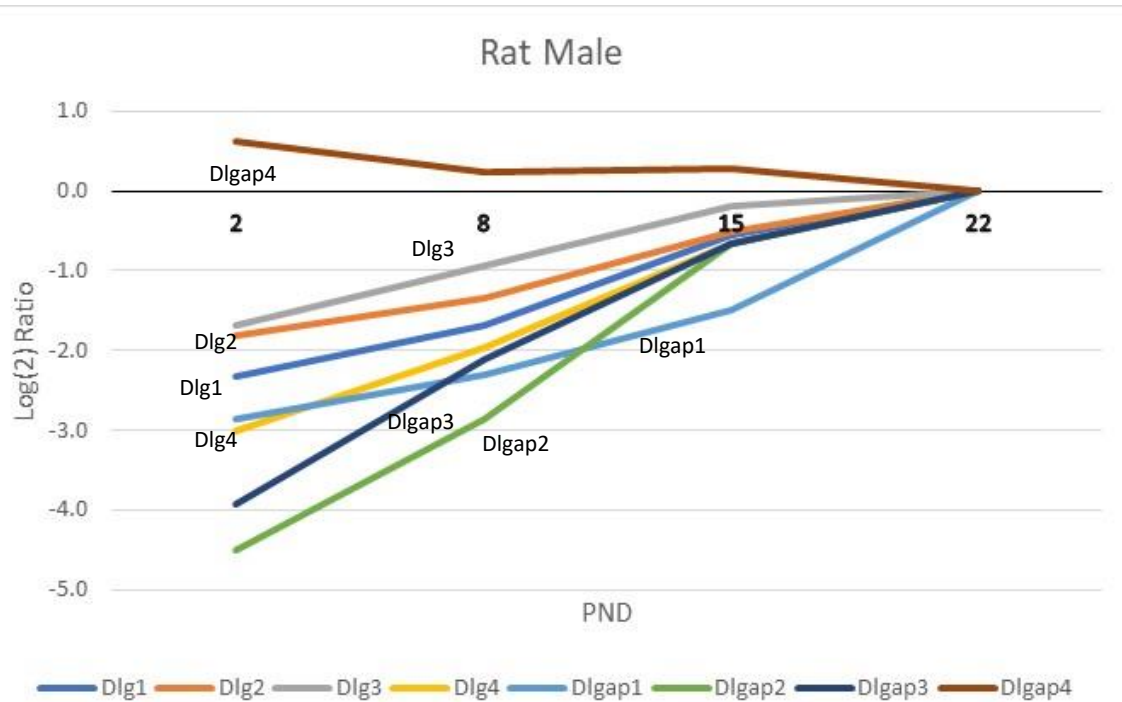
Mouse data from [1], Fig. 7c vs the corresponding rat proteins



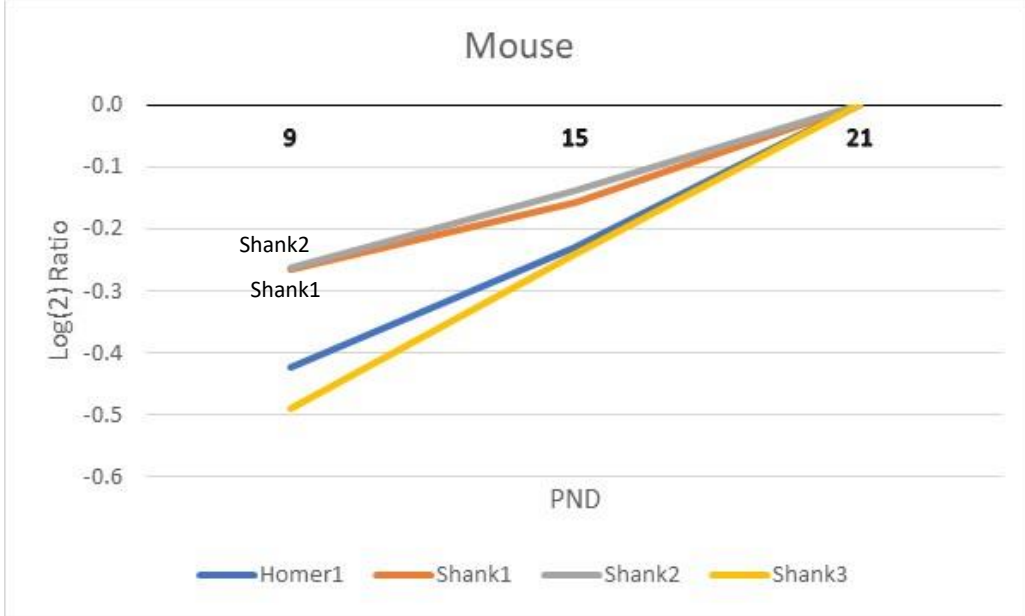
S.Fig. 1d



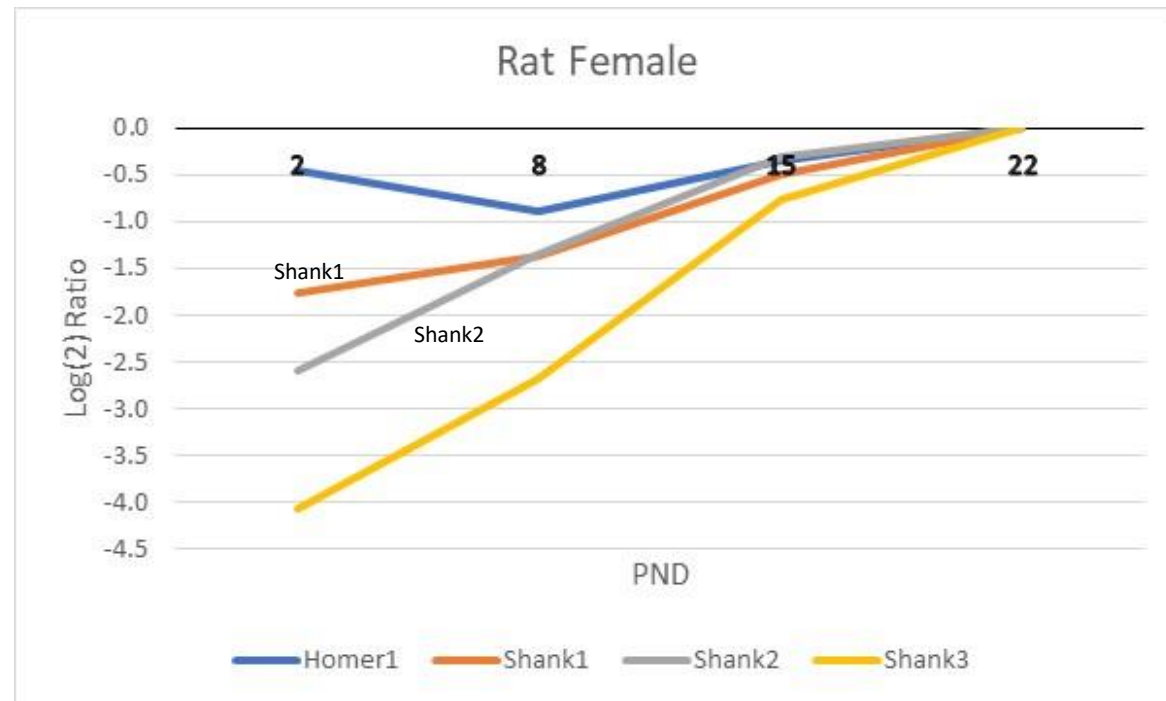
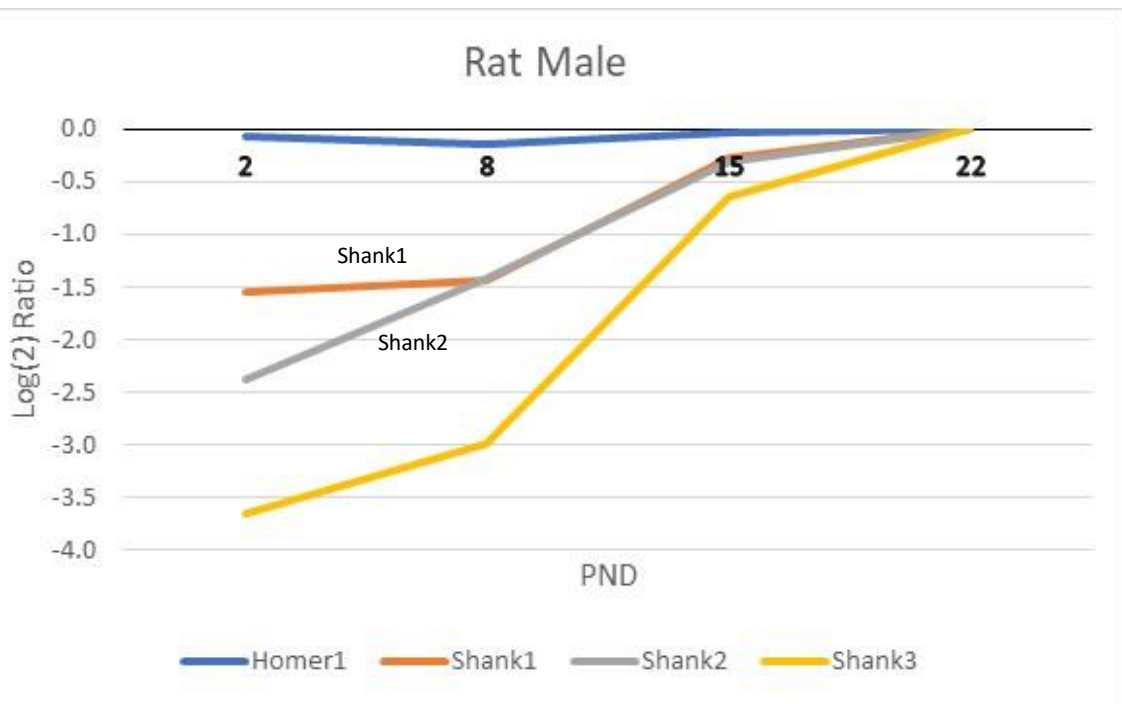
Mouse data from [1], Fig. 7d vs the corresponding rat proteins



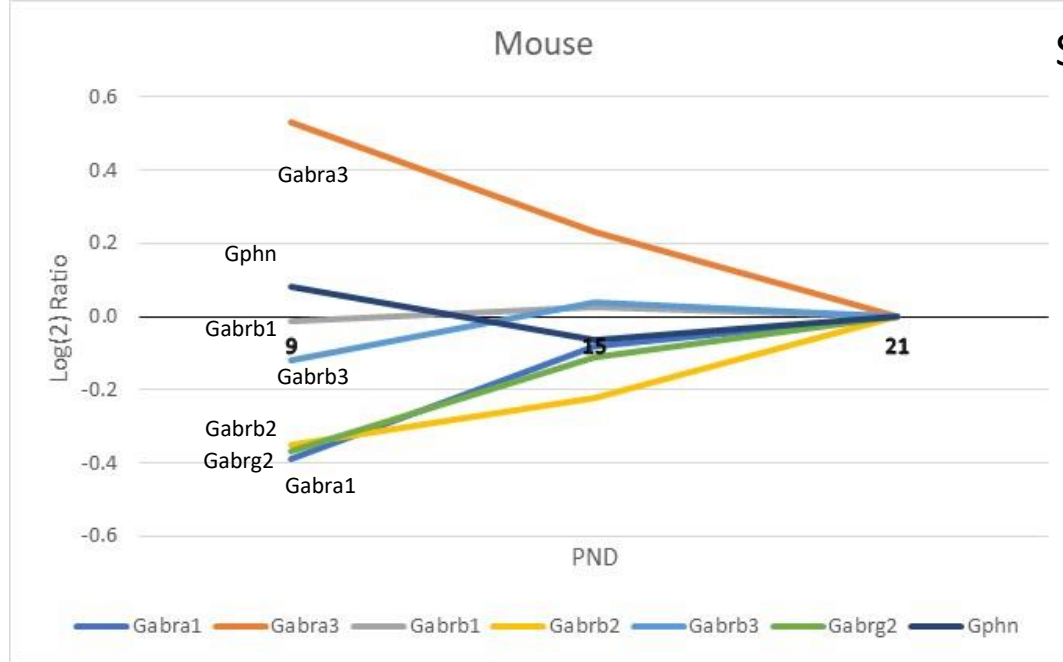
S.Fig. 1e



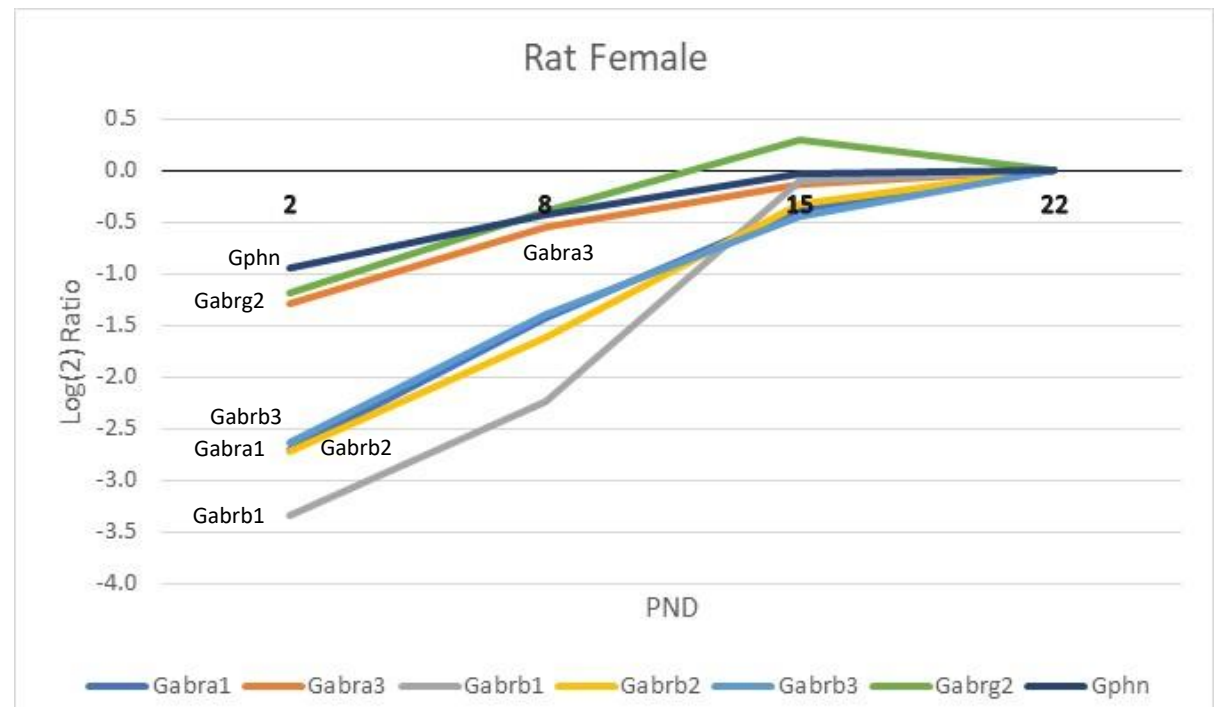
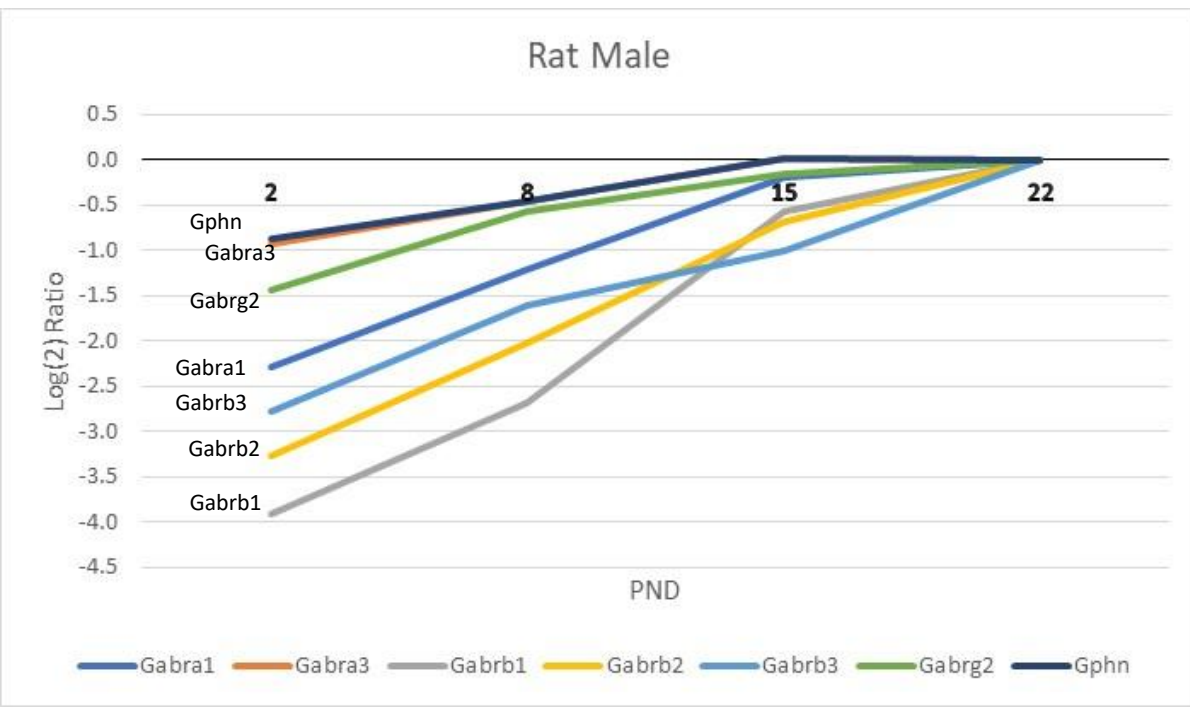
Mouse data from [1], Fig. 7e vs the corresponding rat proteins



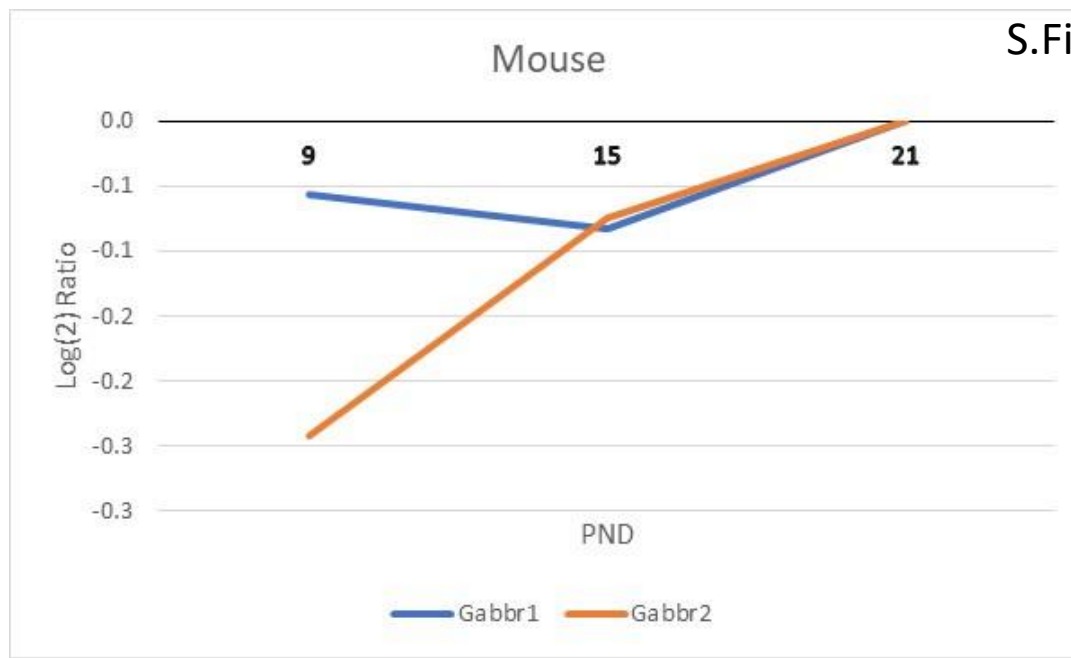
S.Fig. 1f



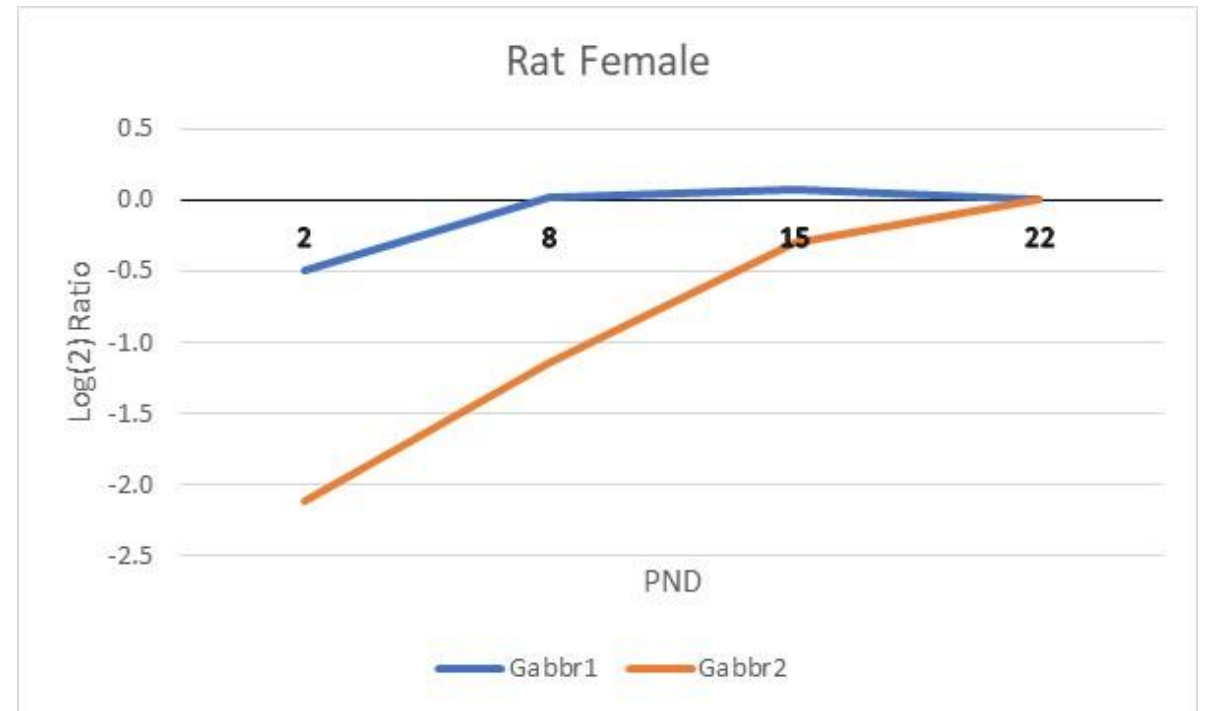
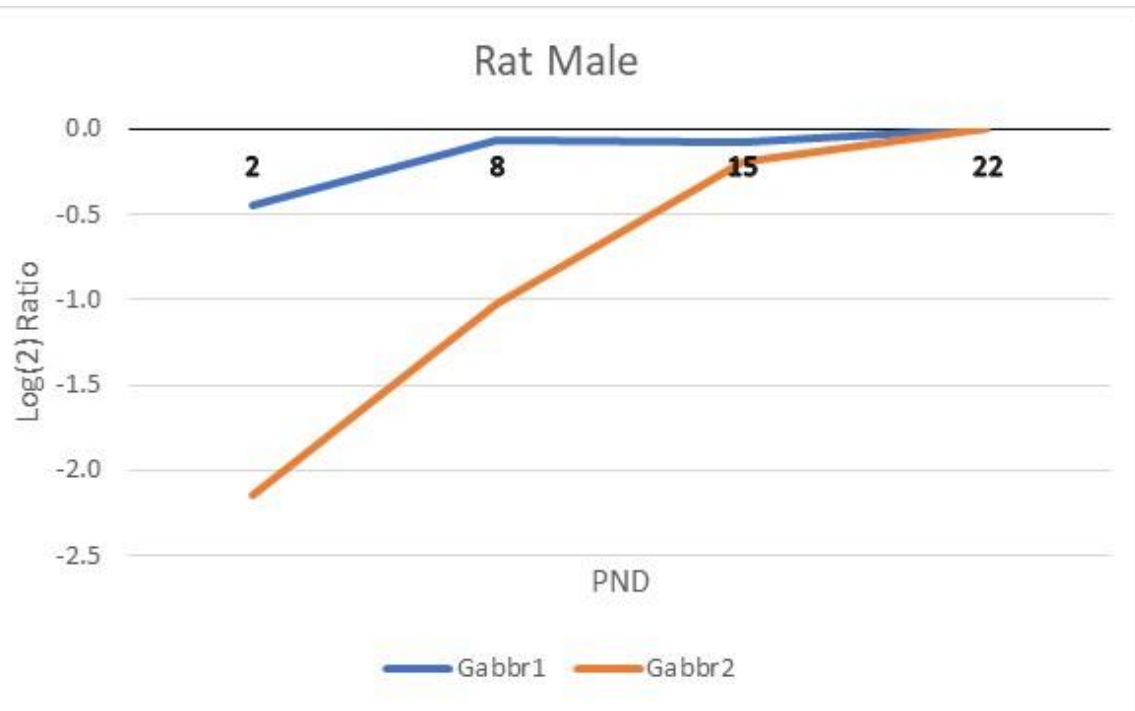
Mouse data from [1], Fig. 7f vs the corresponding rat proteins



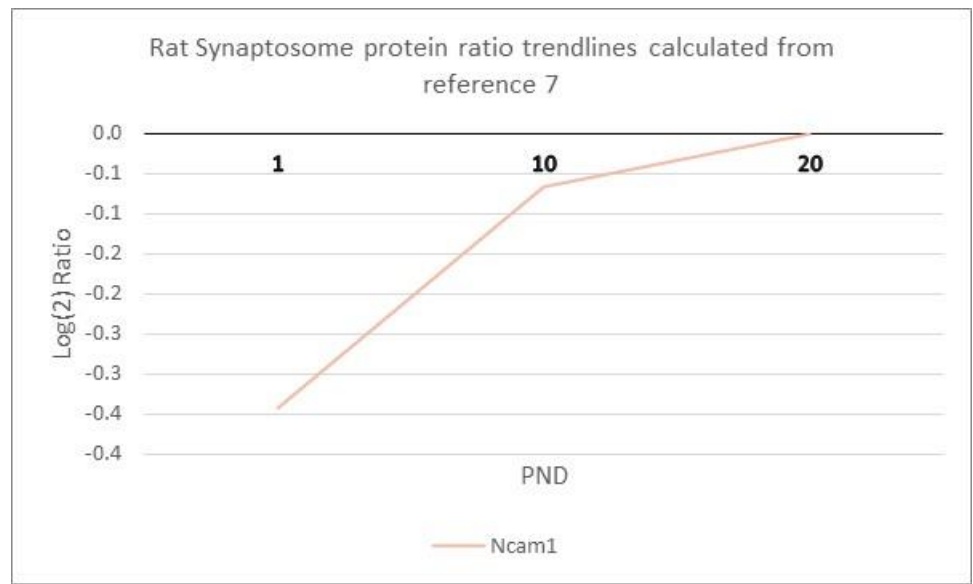
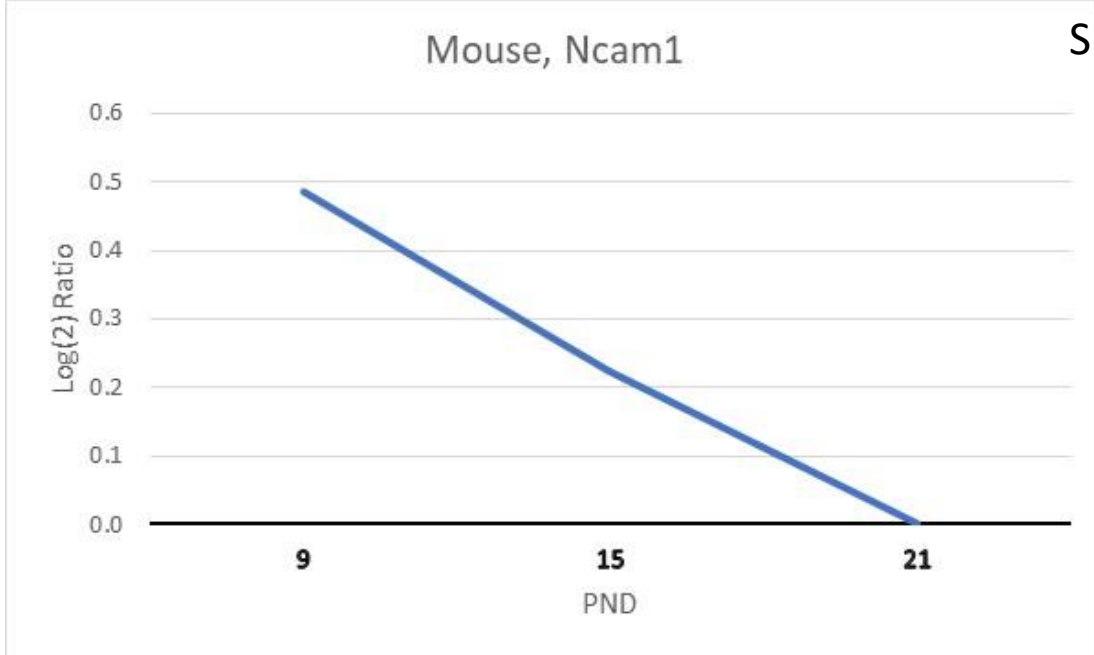
S.Fig. 1g



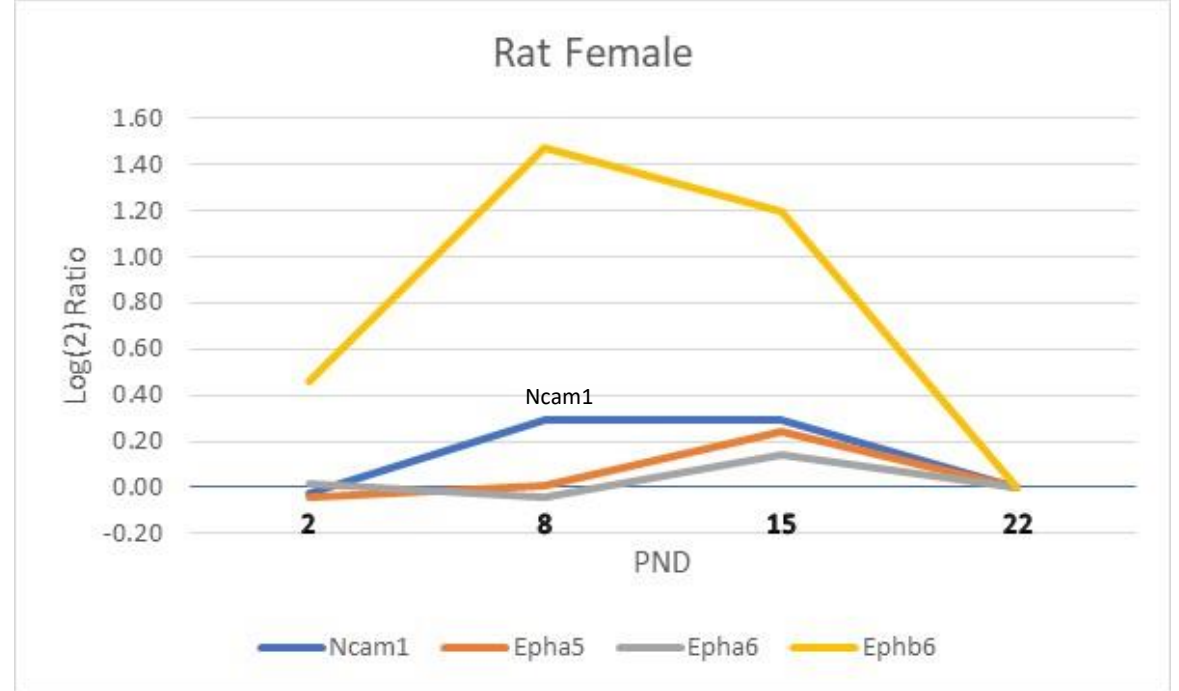
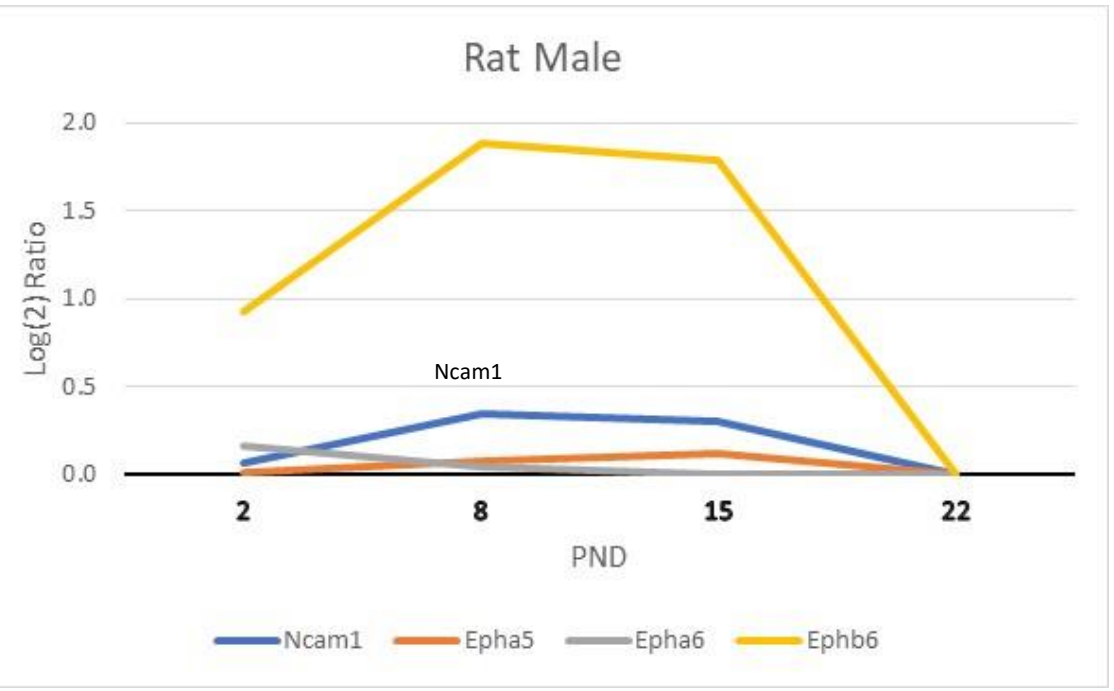
Mouse data from [1], Fig. 7g vs the corresponding rat proteins



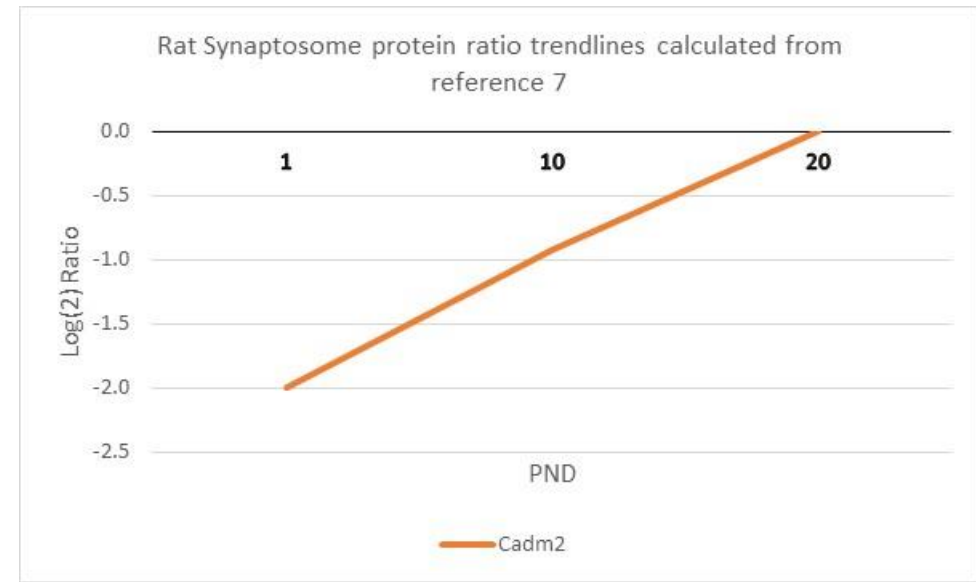
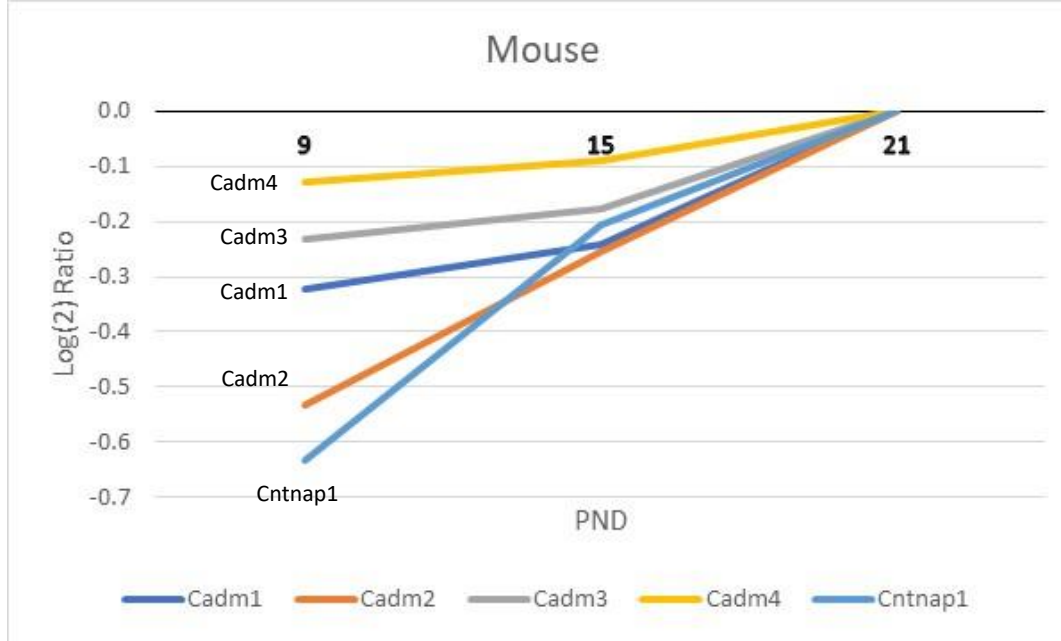
S.Fig. 2a



Mouse data from [1], Fig. 8a vs the corresponding rat proteins

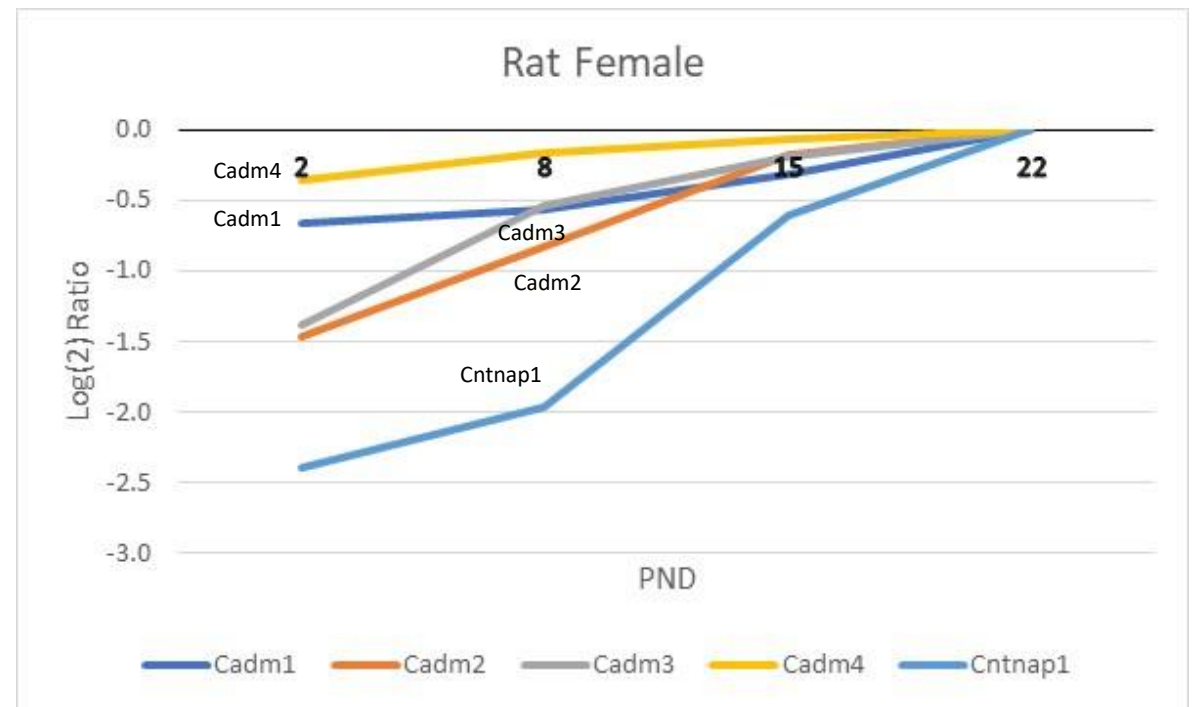
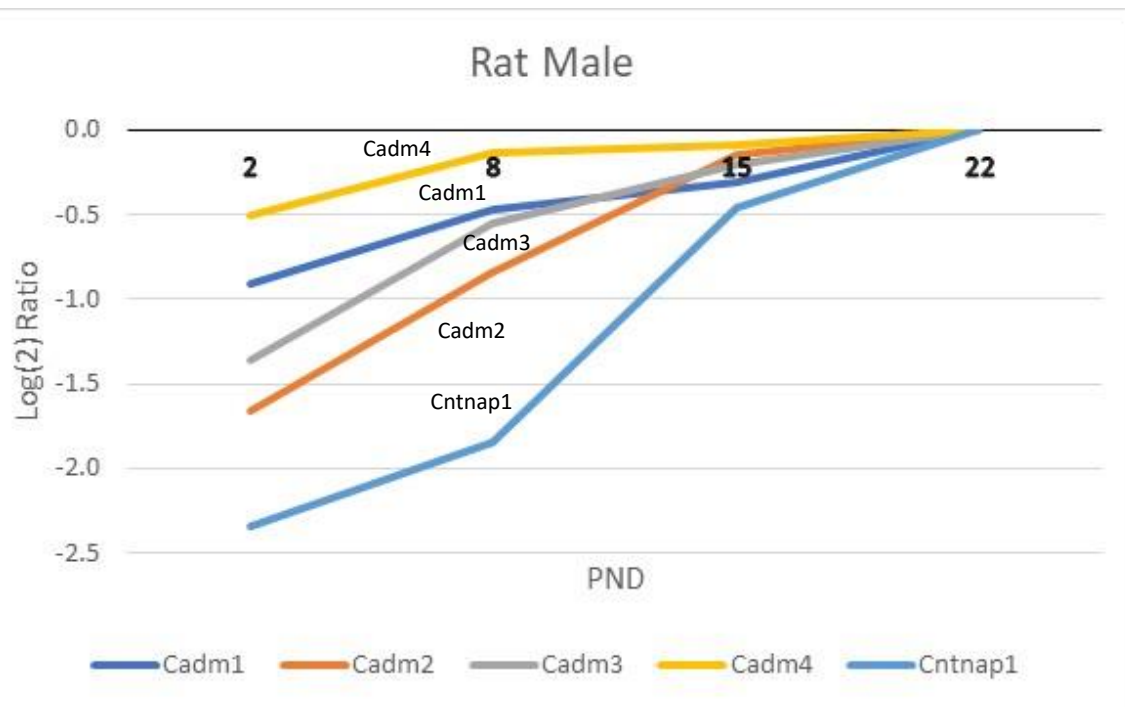


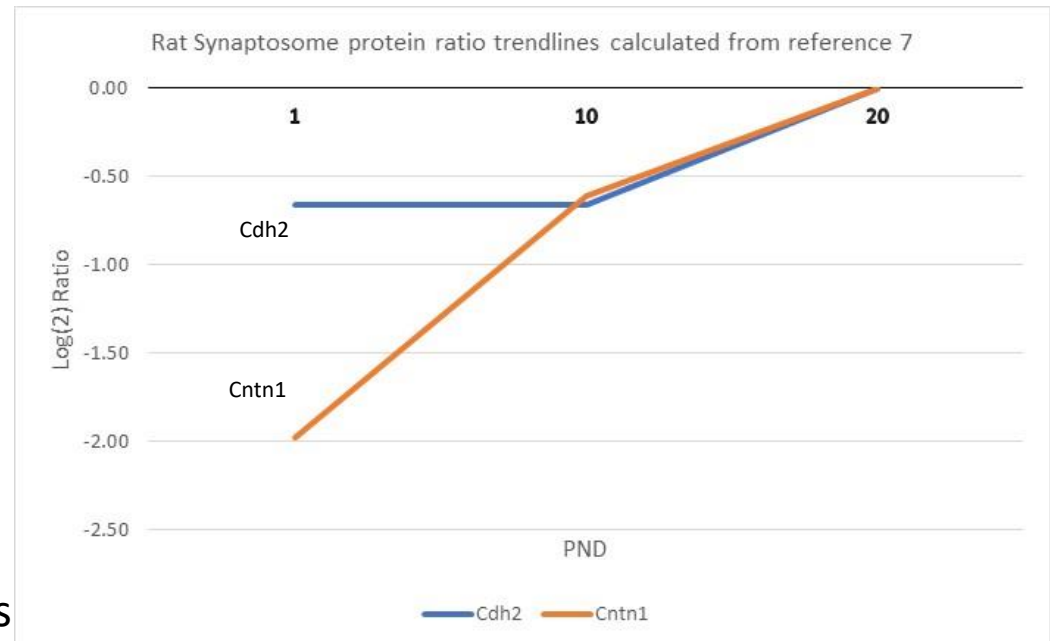
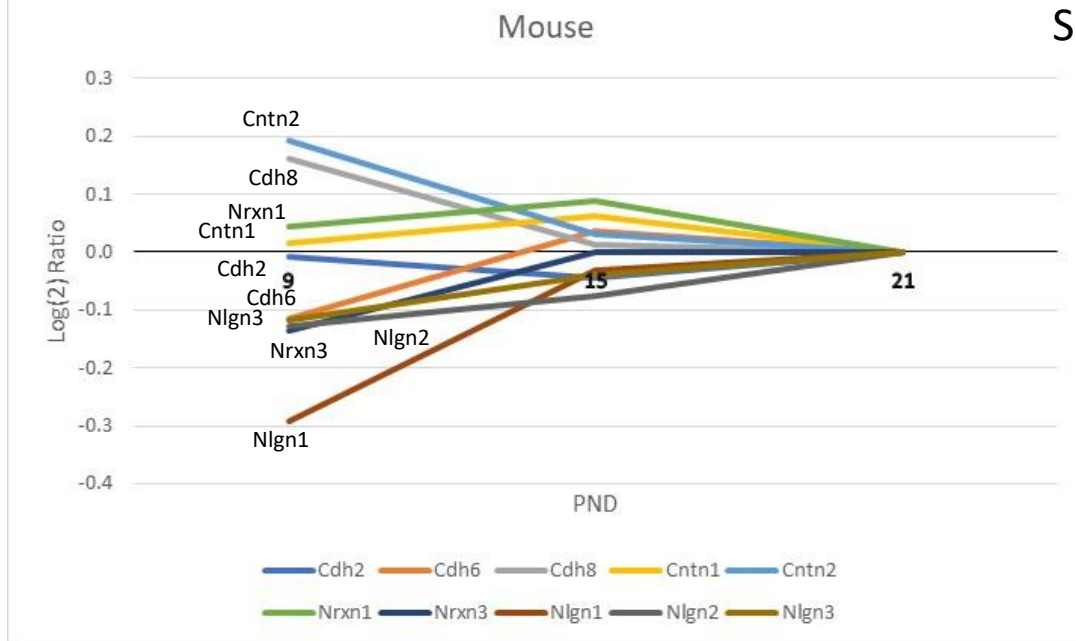
S.Fig. 2b



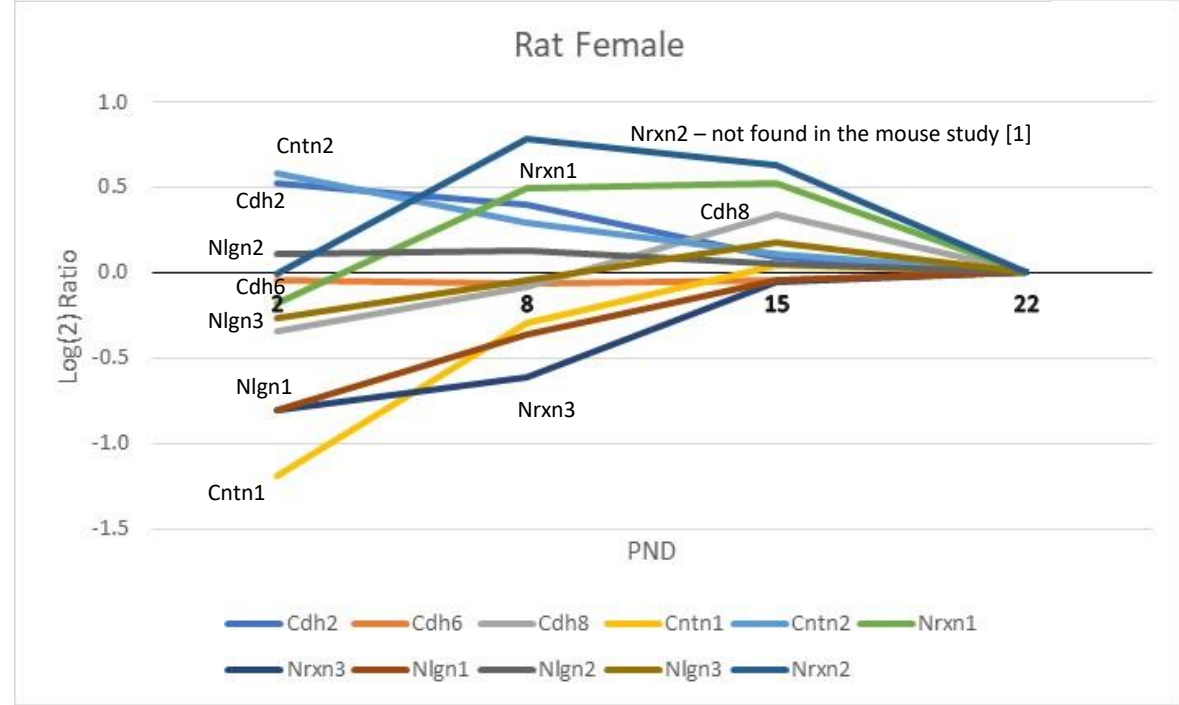
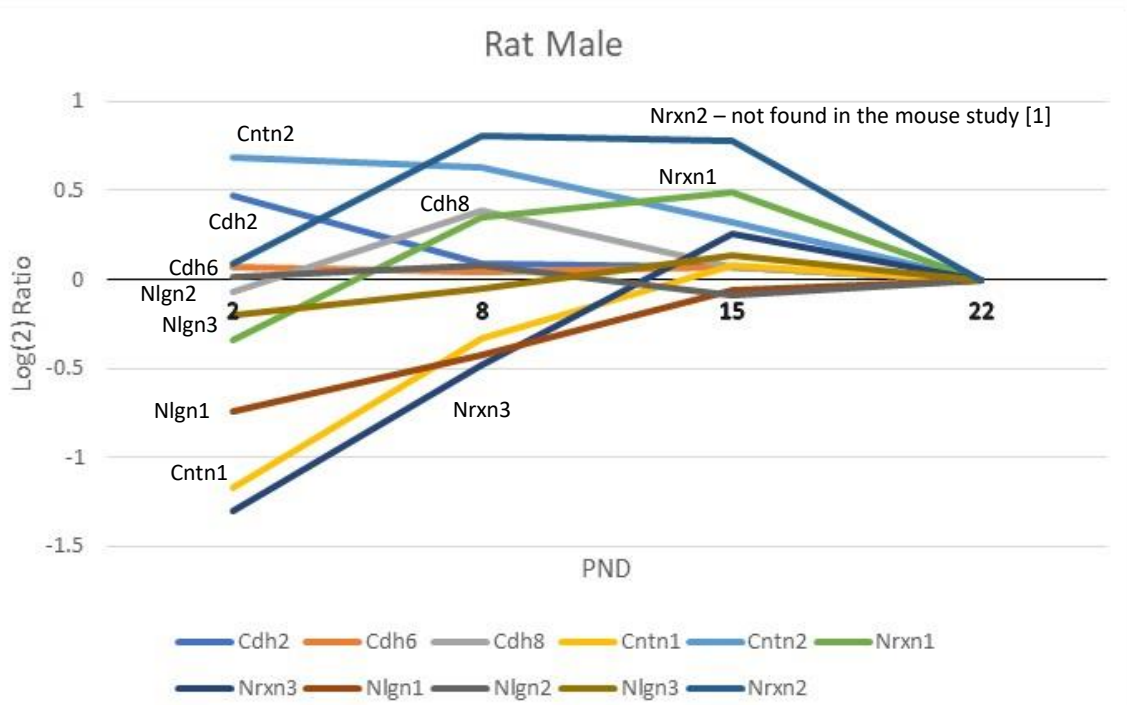
Mouse data from [1], Fig. 8b vs the corresponding rat proteins

Mouse data[1], Fig. 8b in [1]



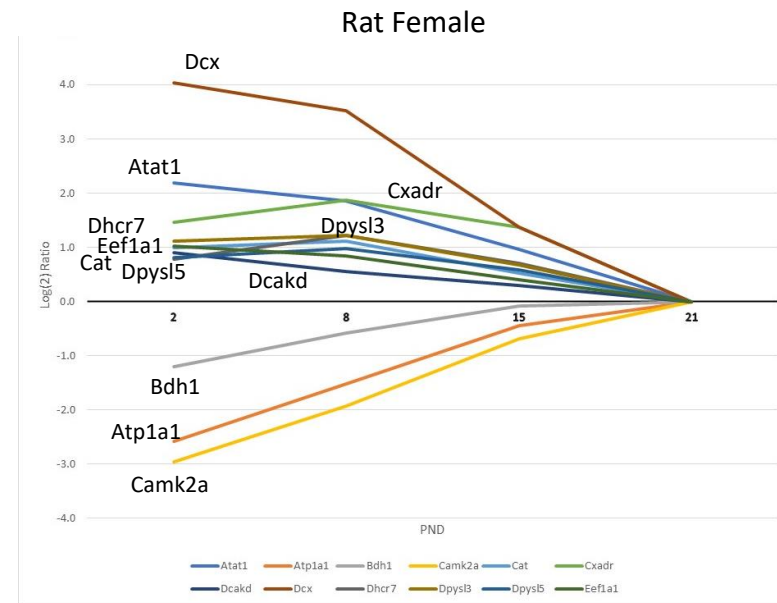
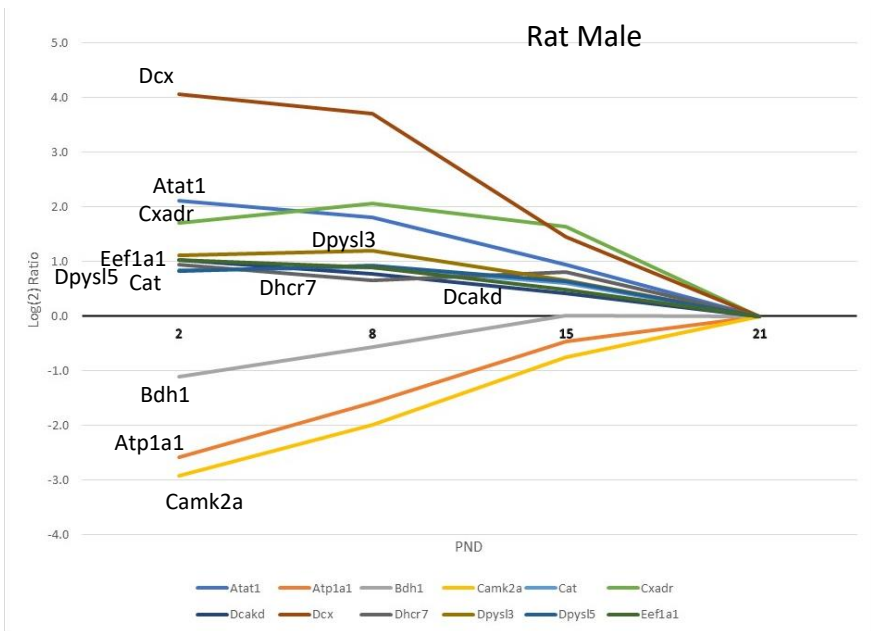
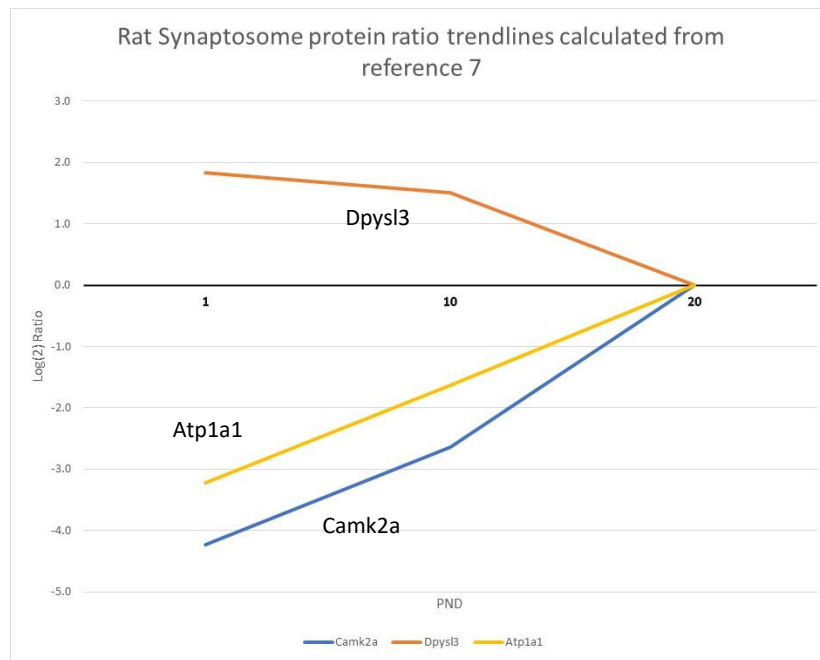
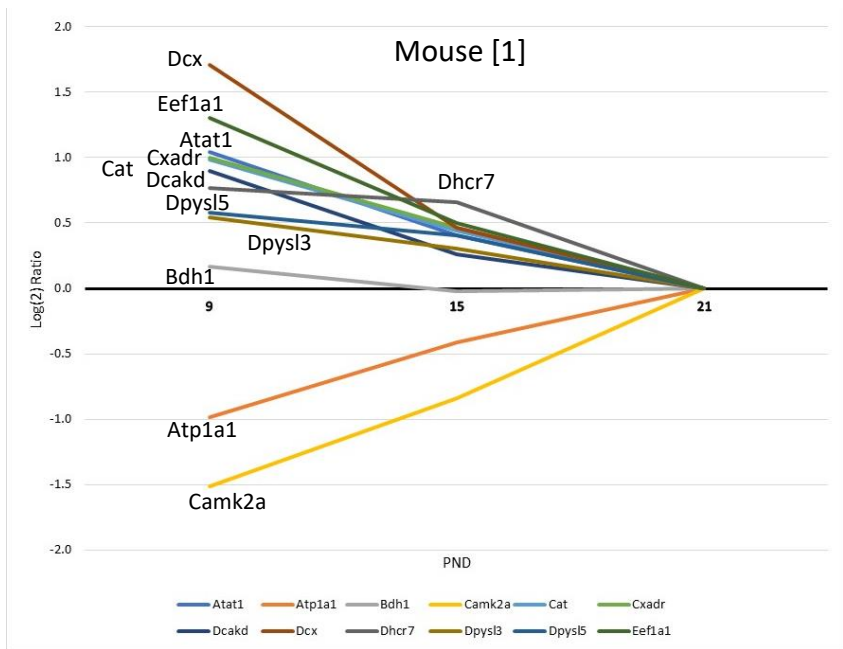


Mouse data from [1], Fig. 8c vs the corresponding rat proteins

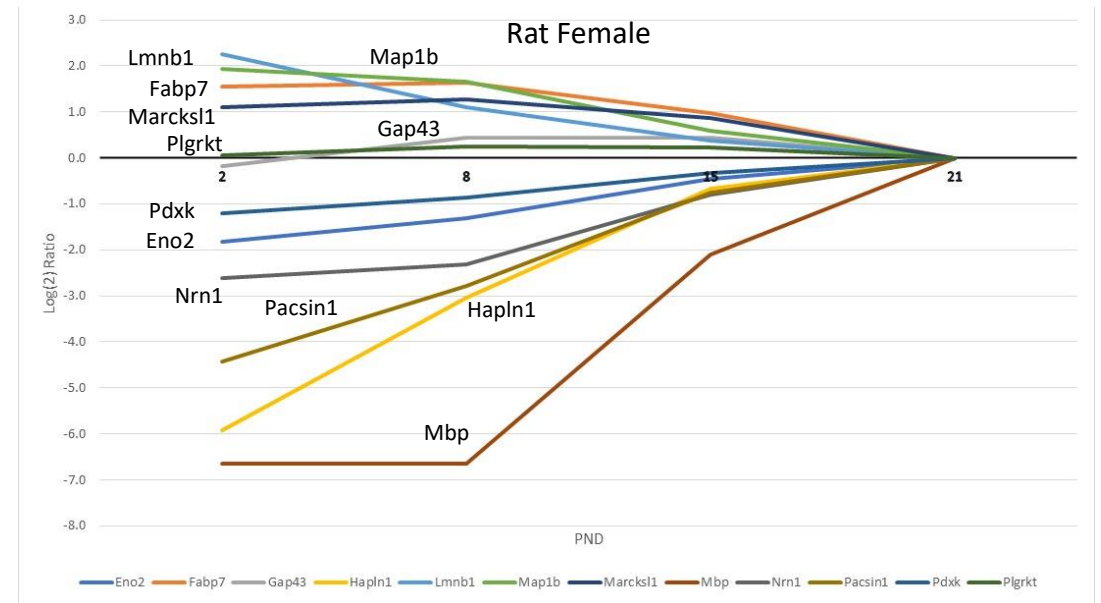
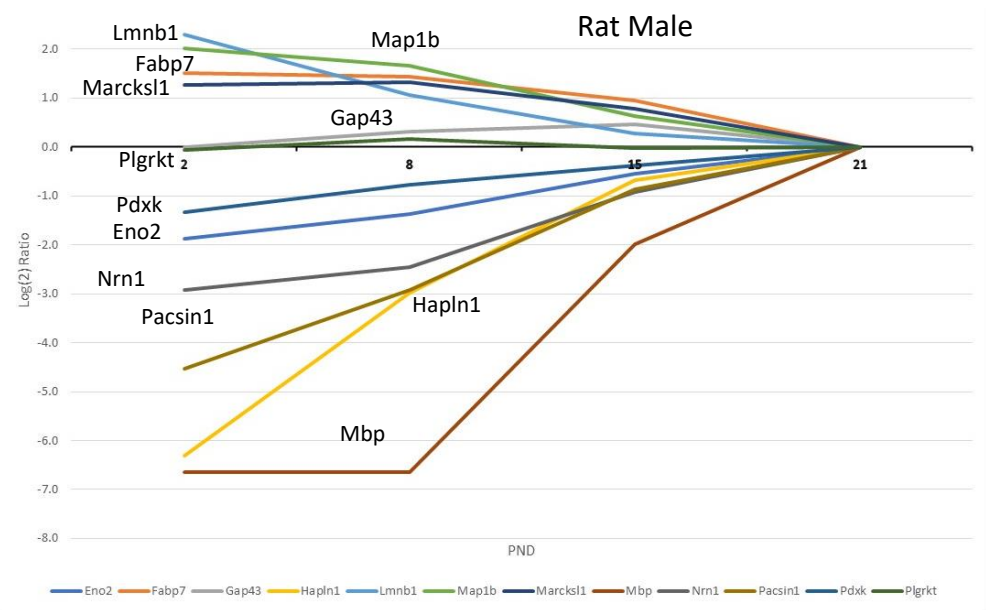
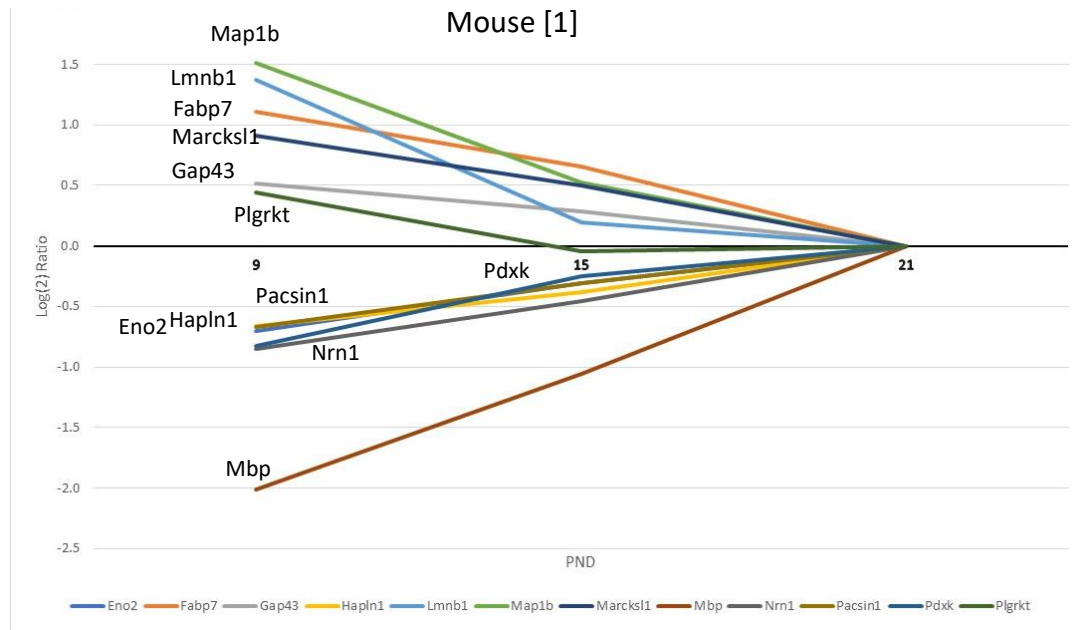


Caption for the supplementary S.Figures 3a-c: The top left quadrants in **S.Fig. 3a-c** show the mouse protein PND trendlines constructed from the *S.Table 1* data in [1] for the proteins in Table 1 representing high fold mouse PND protein ratio differences in [1], which match the rat protein gene symbols in the current work. The bottom graphs show the male and the female rat trendlines matching the PND trendlines above (current work). The reference point for the mouse P9/P21, P15/P21 logarithmic protein abundance ratios is P21, and for the rat (current work) P2/P22, P8/P22, P15/P22 logarithmic protein abundance ratios the reference point is P22. The upper right quadrants of these figures show, whenever available, the reconstructed trendlines which match rat protein gene symbols in the current work for the quantifiable synaptic cortex rat proteins calculated from *Supplementary Table 5: Statistically significant changes in synaptosomal cortical proteome during development* in [7], for which the PND protein ratio reference point is P20.

S.Fig. 3a

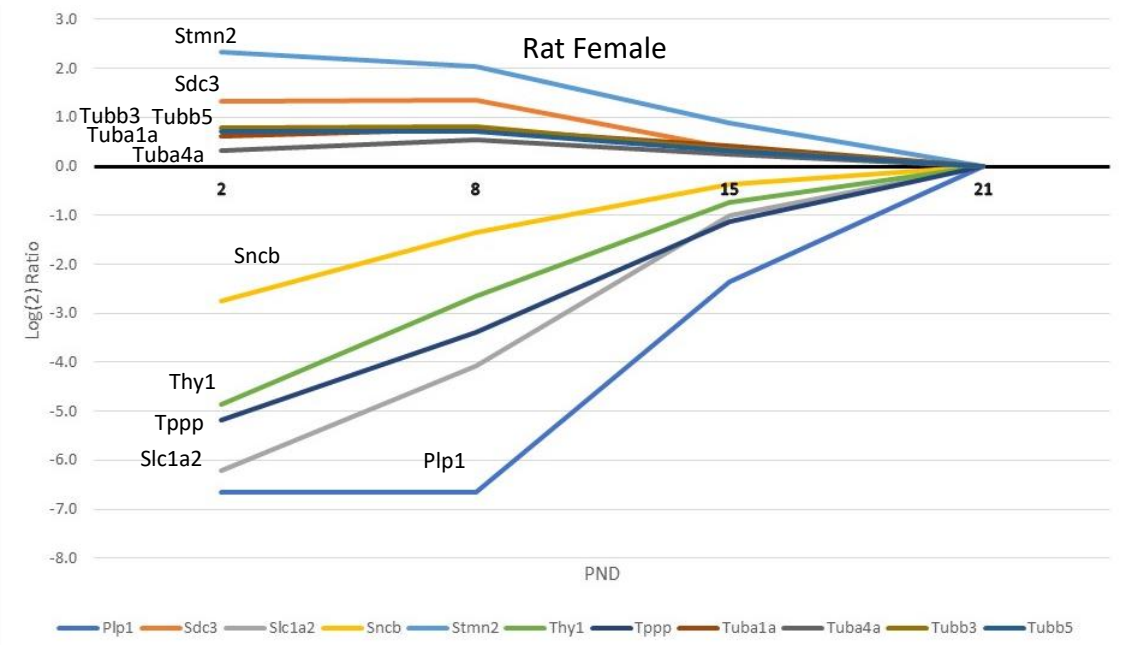
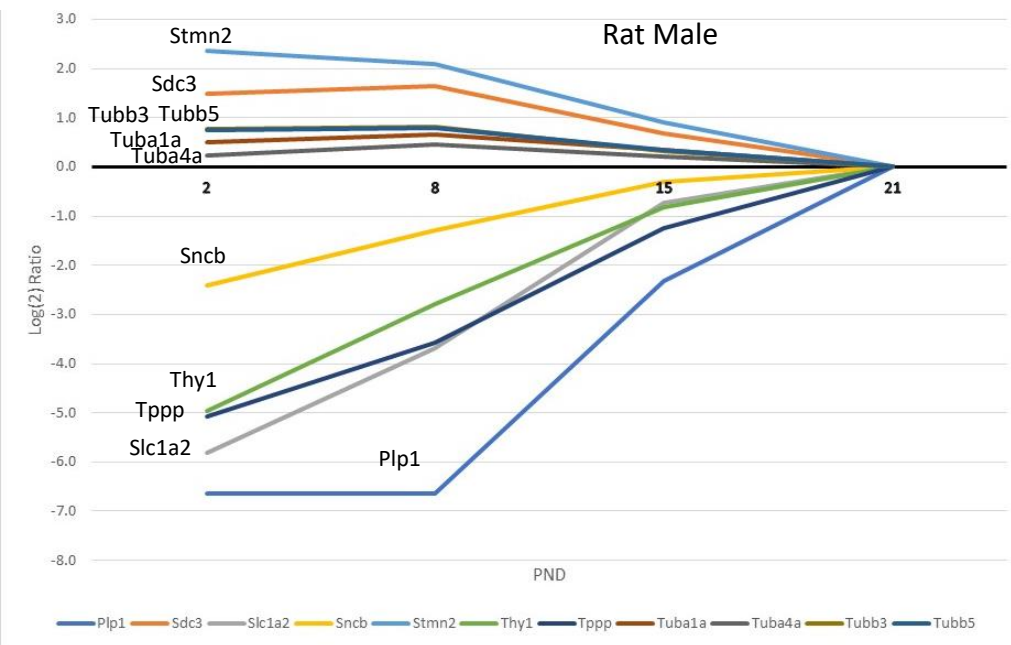
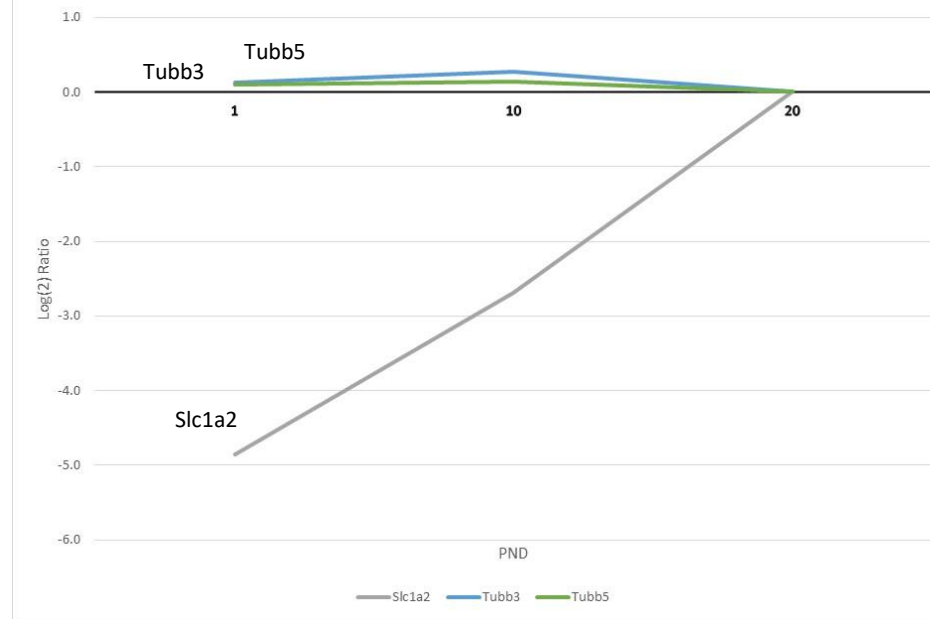
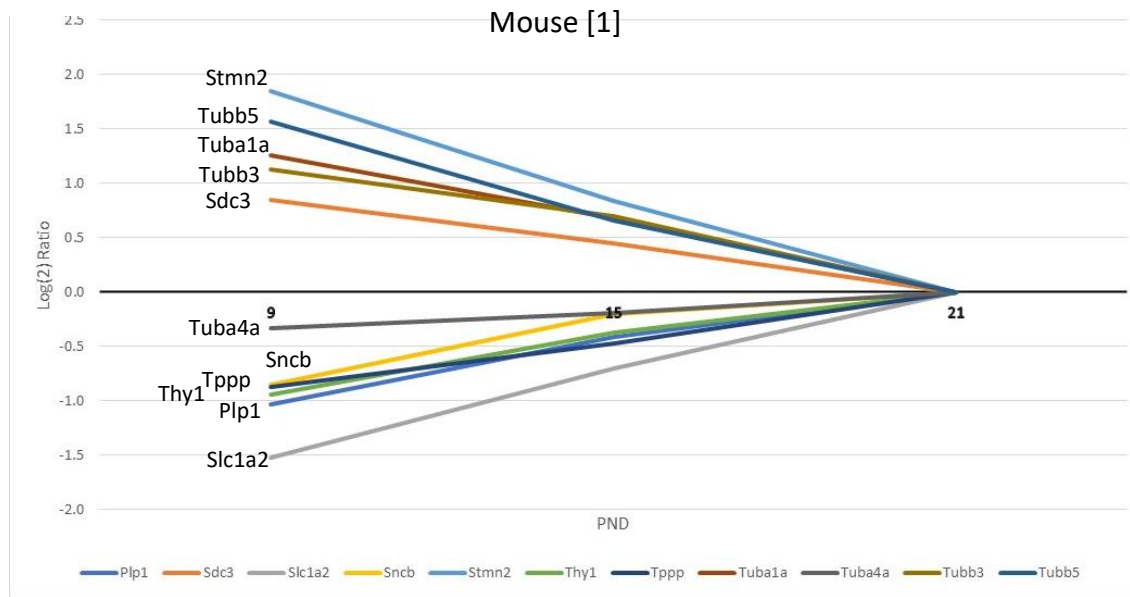


S.Fig. 3b



S.Fig. 3c

Rat Synaptosome protein ratio trendlines calculated from reference 7



S.Fig. 4a

Box and whisker plot showing the log₂ P_n/P₂₂ (male and female rat rostral cortex) and log₂ P_x/P₂₁ (mouse cortex [1]) ribosomal protein abundance ratio data point distributions for the PND points: n= 2, 8, 15, 22 (rat), and x= 9, 15, 21 (mouse)

S.Fig. 4b

Box and whisker plot showing the log₂ P_n/P₂₂ (male and female rat rostral cortex) and log₂ P_x/P₂₁ (mouse cortex [1]) proteasome protein abundance ratio data point distributions for the PND points: n= 2, 8, 15, 22 (rat), and x= 9, 15, 21 (mouse)

S.Fig. 4c

Box and whisker plot showing the log₂ P_n/P₂₂ (male and female rat rostral cortex) mRNA splicing and mitochondrial protein abundance ratio data point distributions for the PND points: n= 2, 8, 15, 22

S.Fig. 4d

Box and whisker plot showing the log₂ P_n/P₂₂ (male and female rat rostral cortex) DNA, RNA associated and apoptosis-related protein abundance ratio data point distributions for the PND points: n= 2, 8, 15, 22

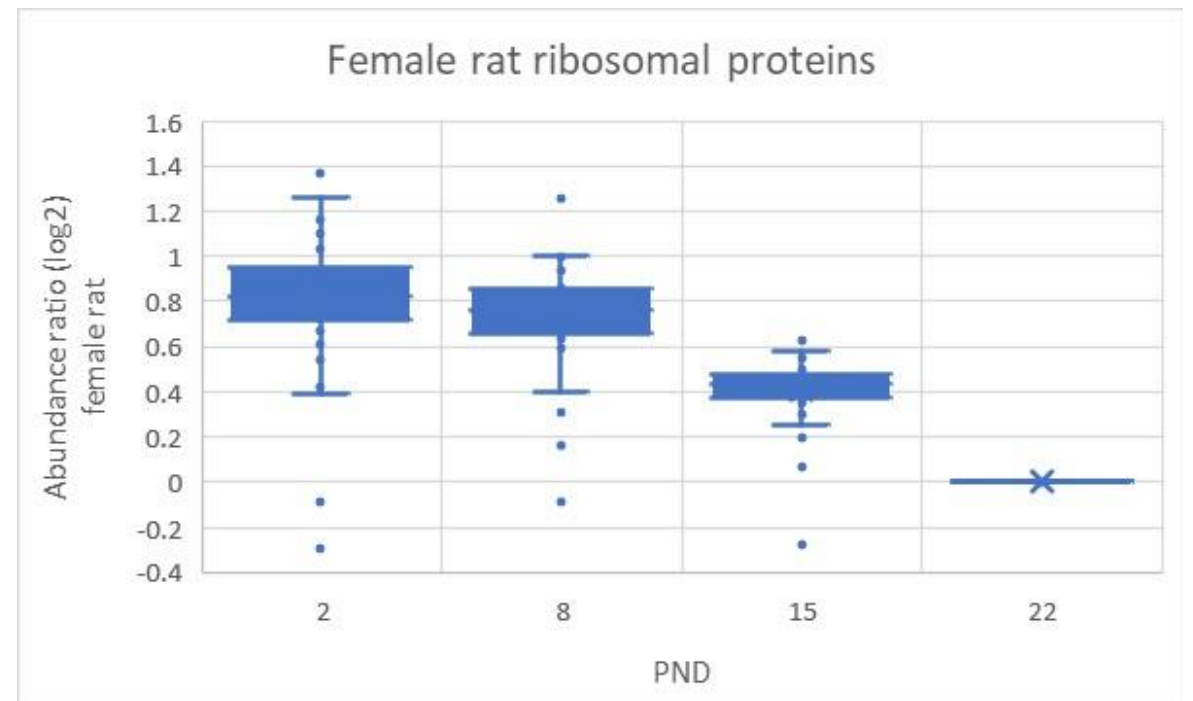
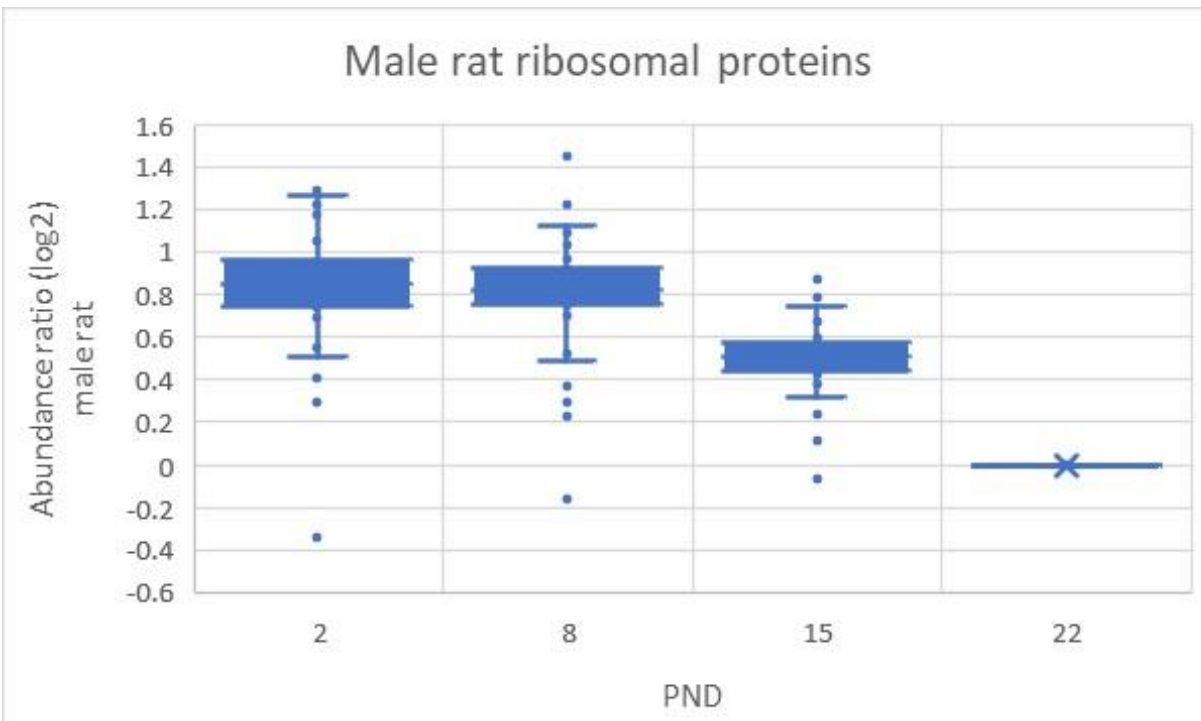
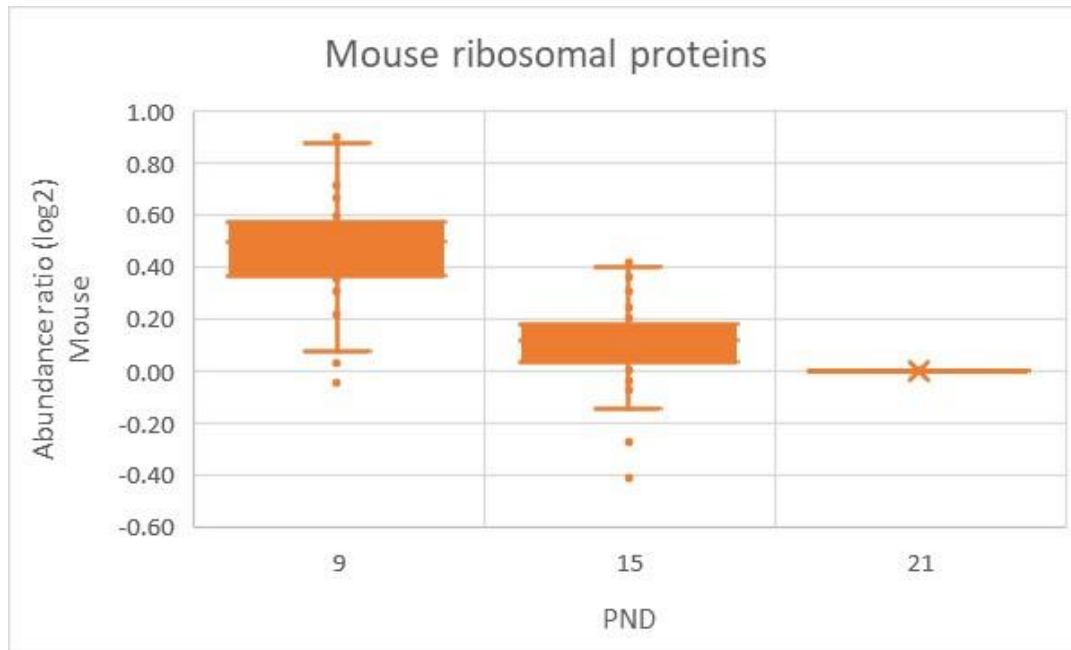
S.Fig. 5

Box and whisker plot showing the log₂ P_n/P₂₂ (male and female rat rostral cortex) significantly rising and falling trend protein abundance ratio data point distributions for the PND points: n= 2, 8, 15, 22

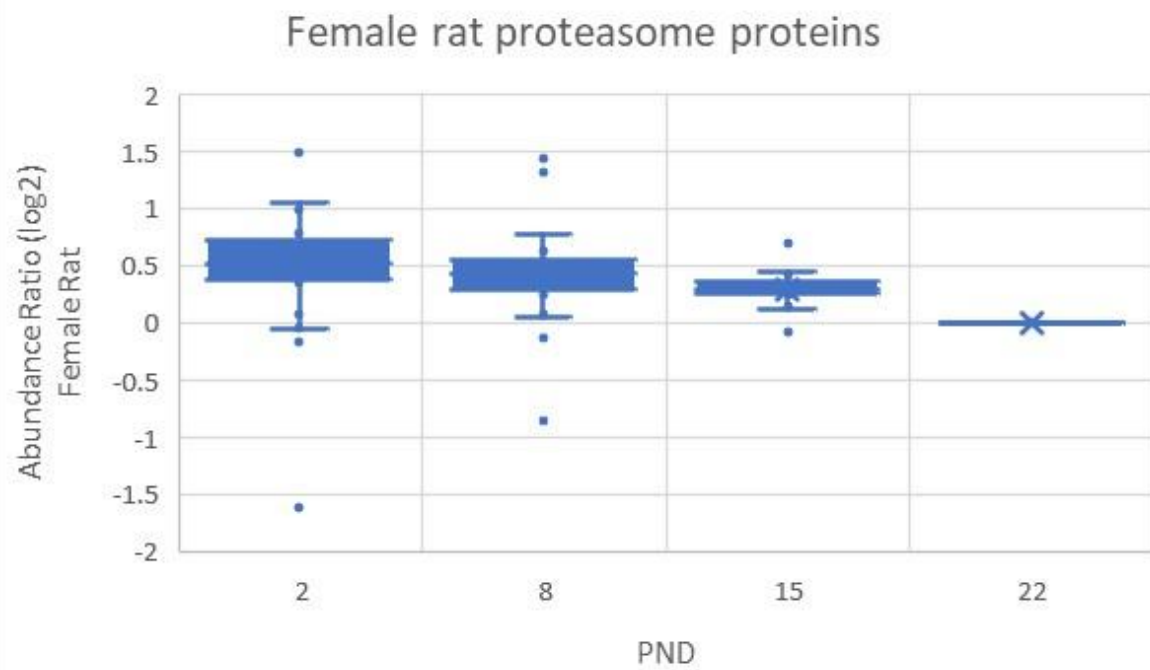
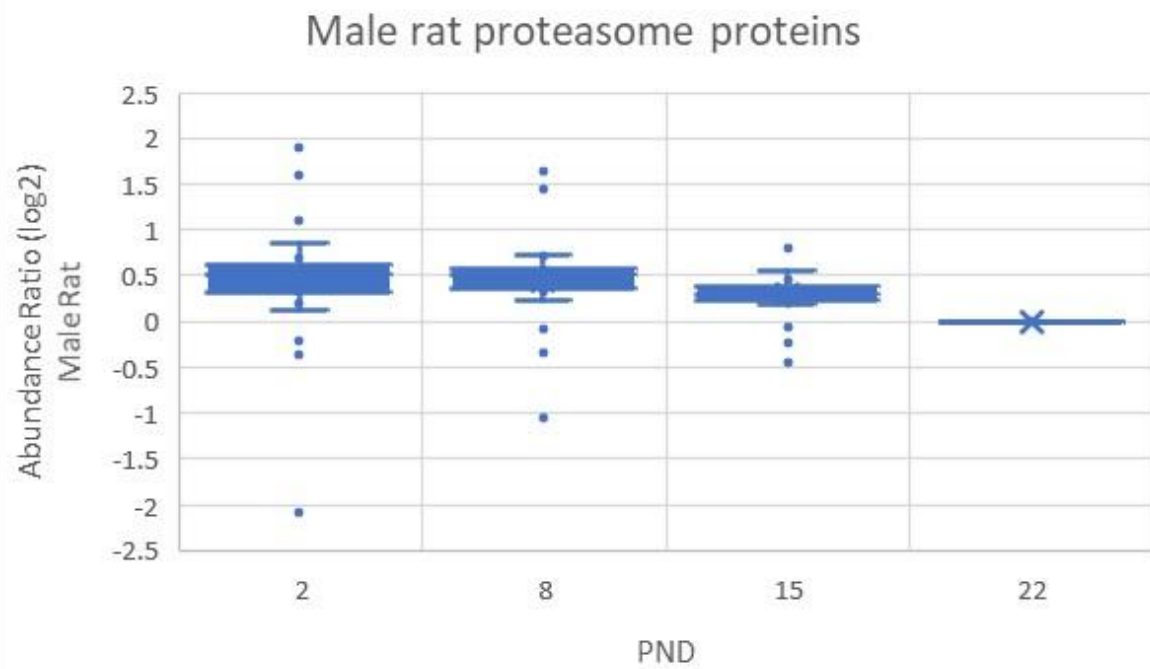
S.Fig 6

PCA grouping of the rat P₂, P₈, P₁₅, P₂₂ experimental PND male and female groups; six animals per group

S.Fig. 4a

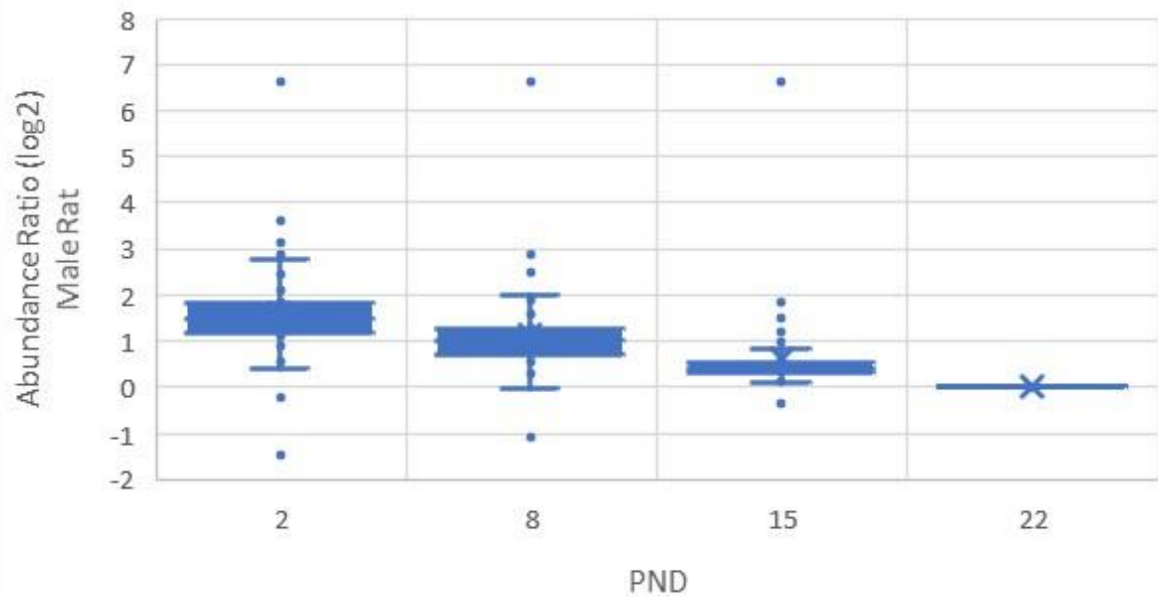


S.Fig. 4b

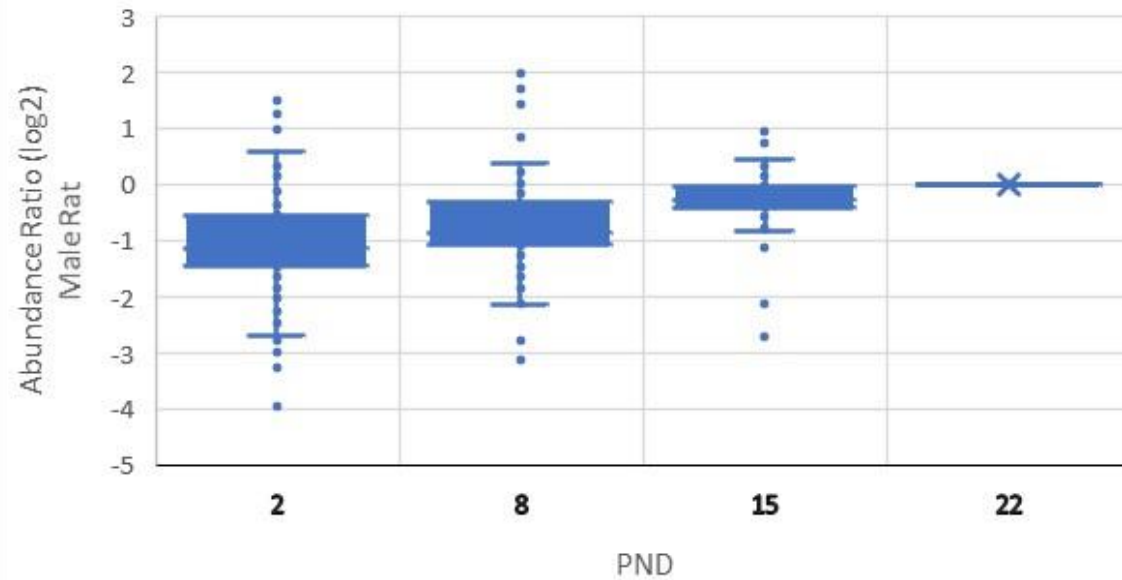


S.Fig. 4c

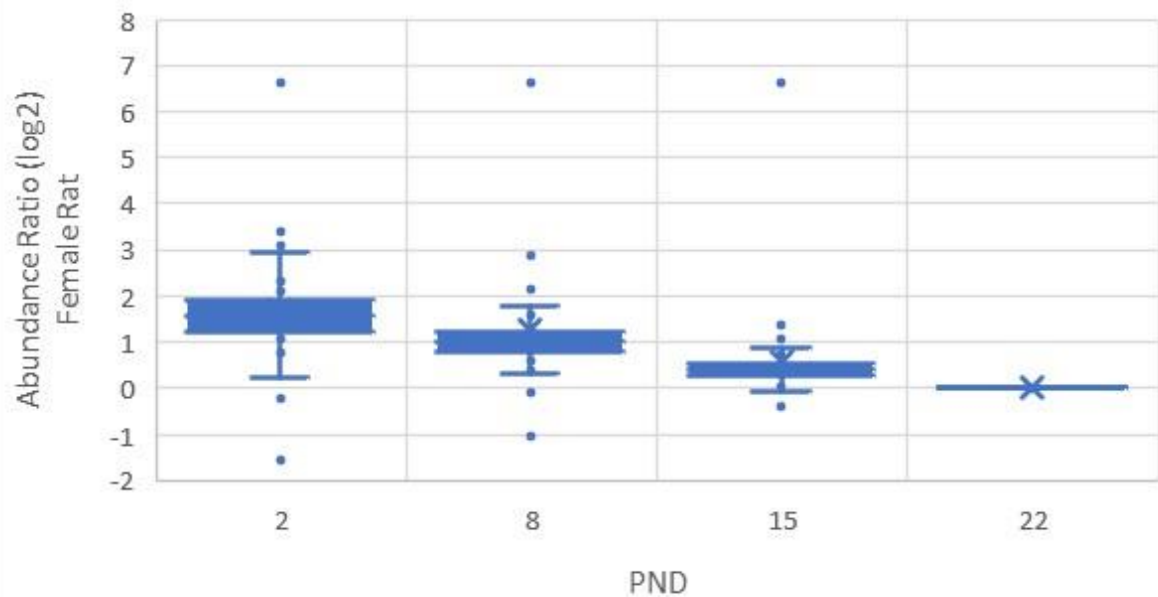
mRNA Splicing Proteins



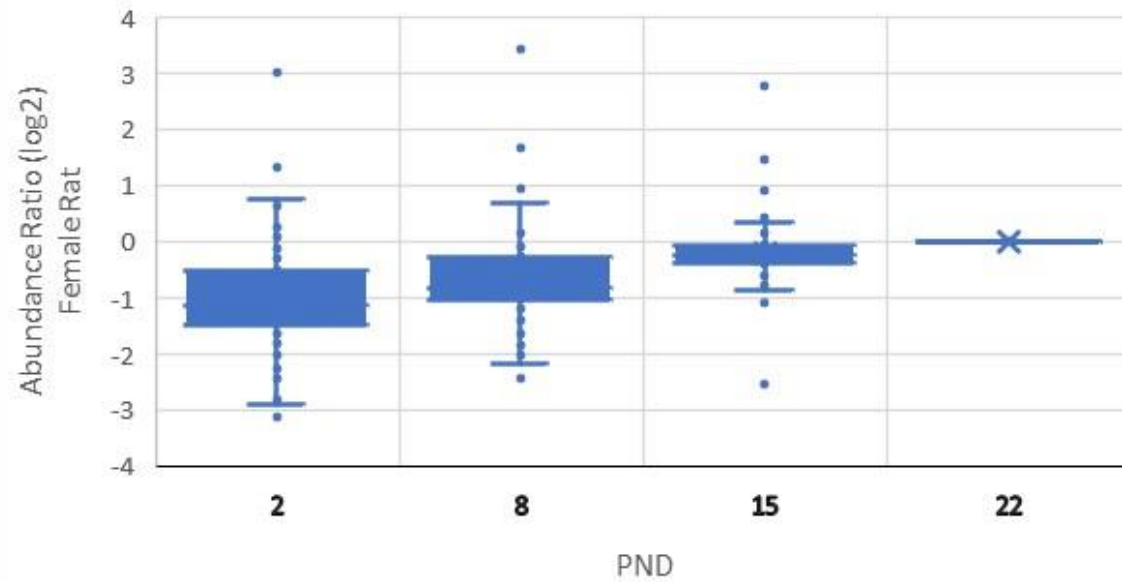
Mitochondrial



mRNA Splicing Proteins

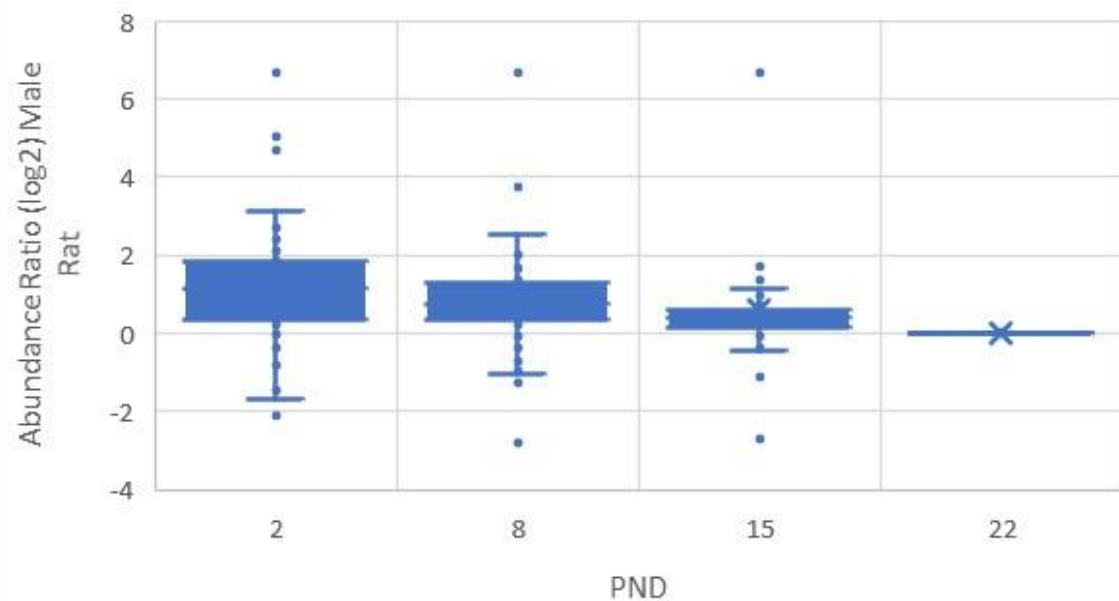


Mitochondrial

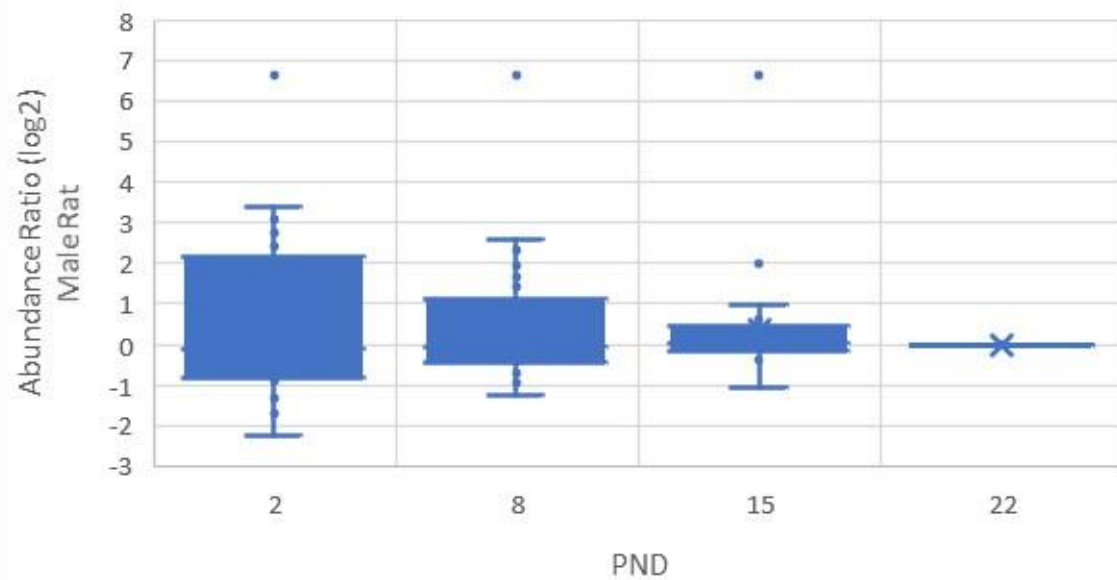


DNA, RNA - Associated Proteins Male Rat

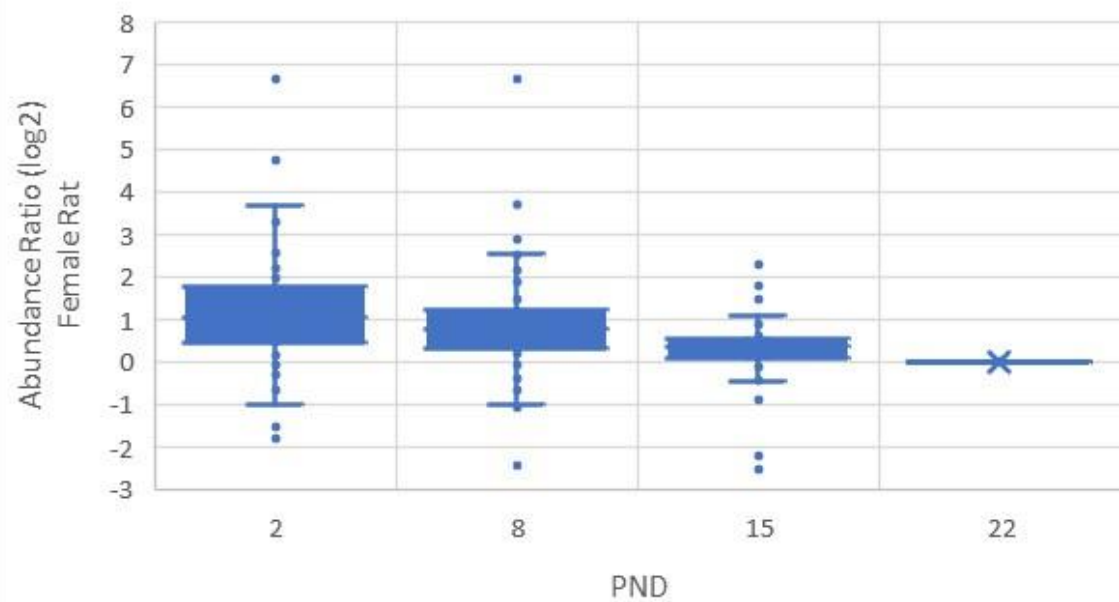
S.Fig. 4d



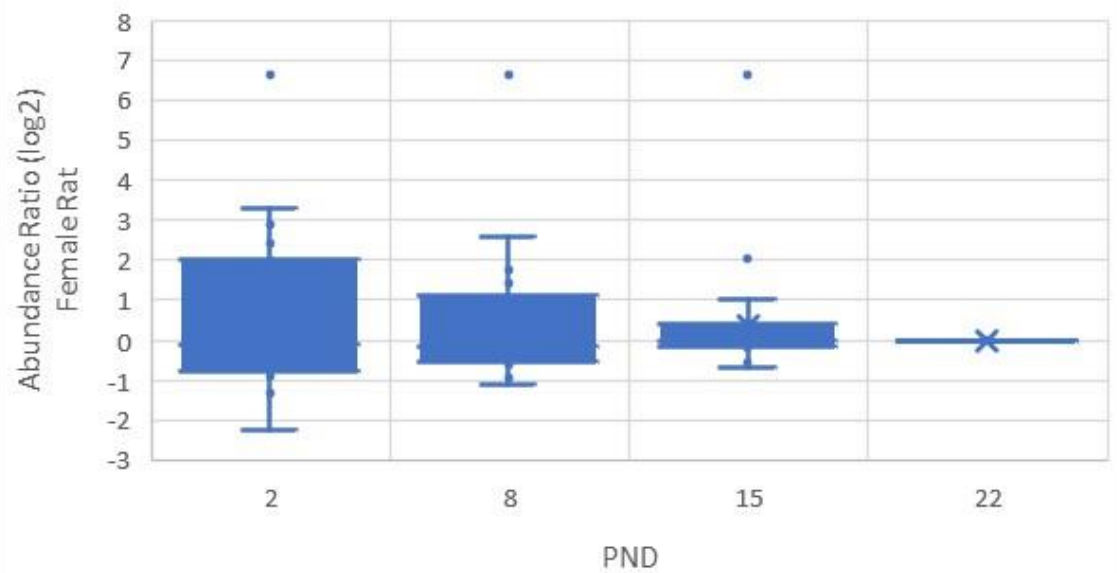
Apoptosis-related proteins - Male Rat



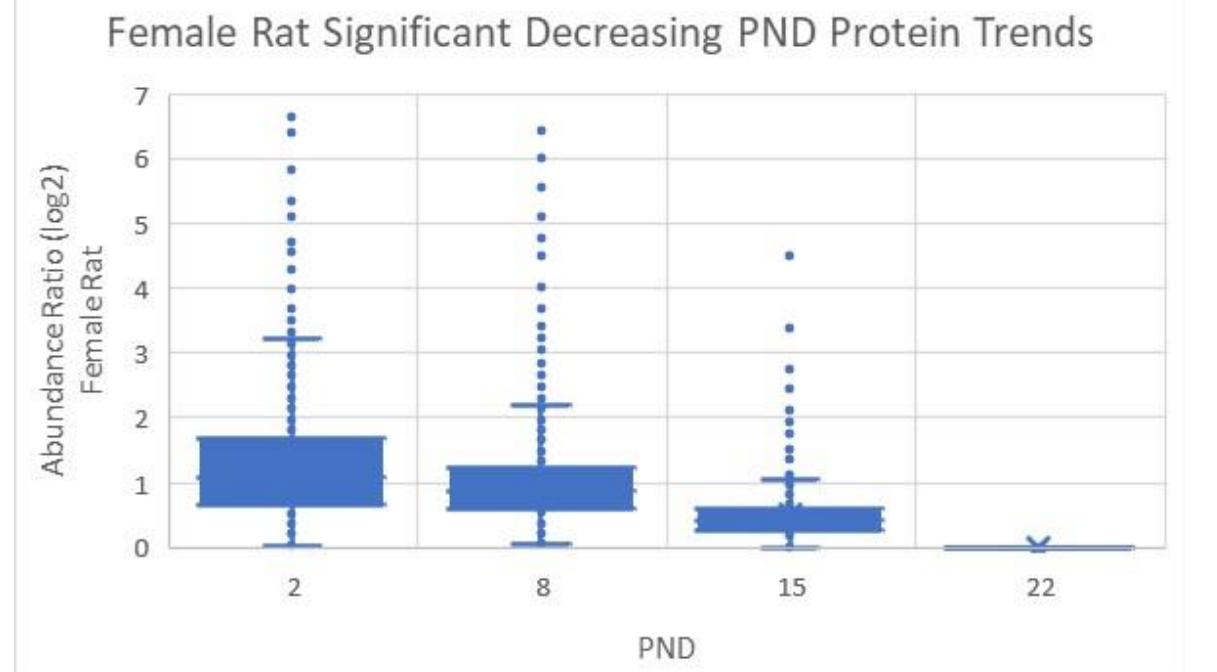
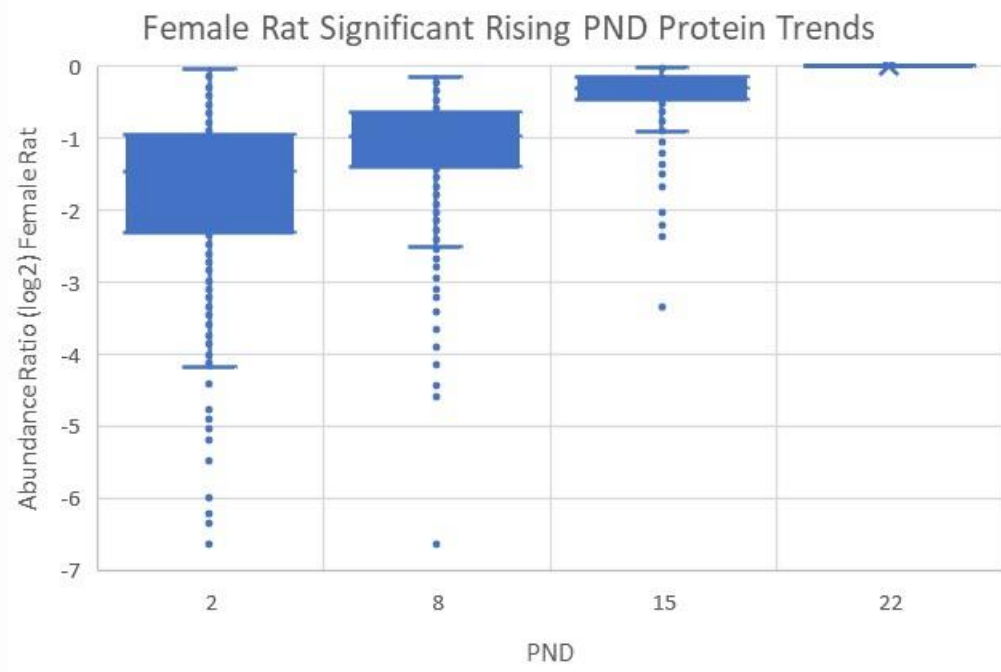
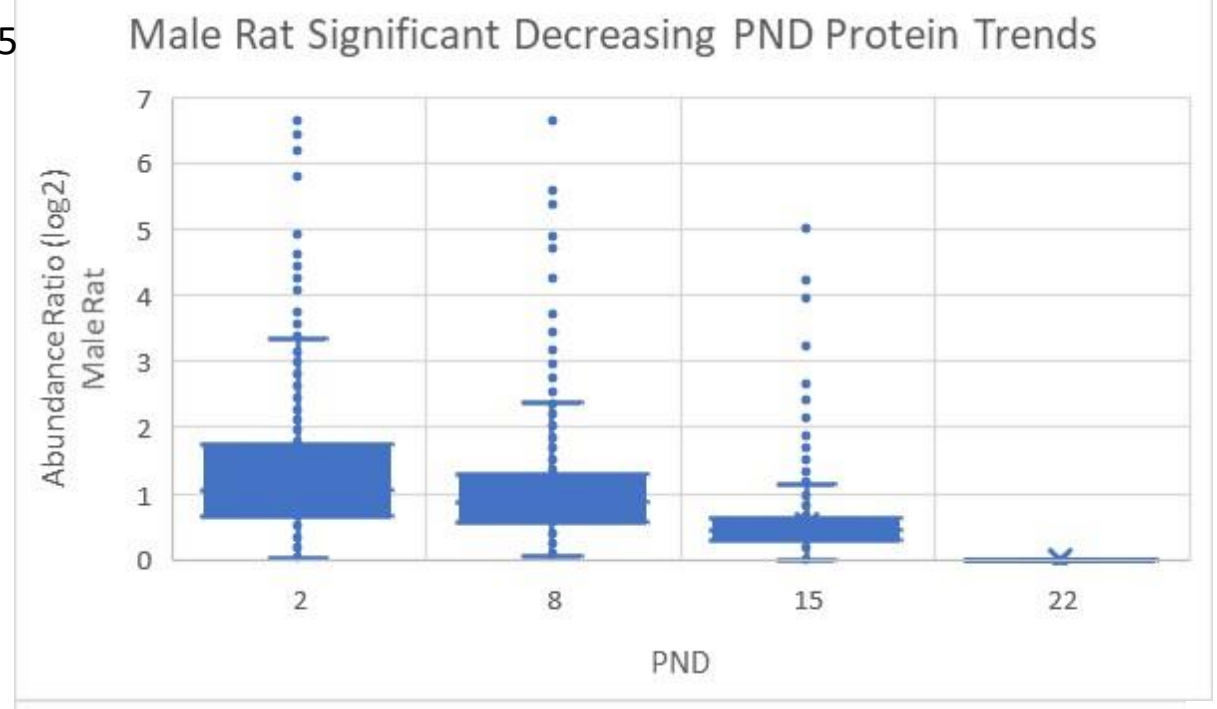
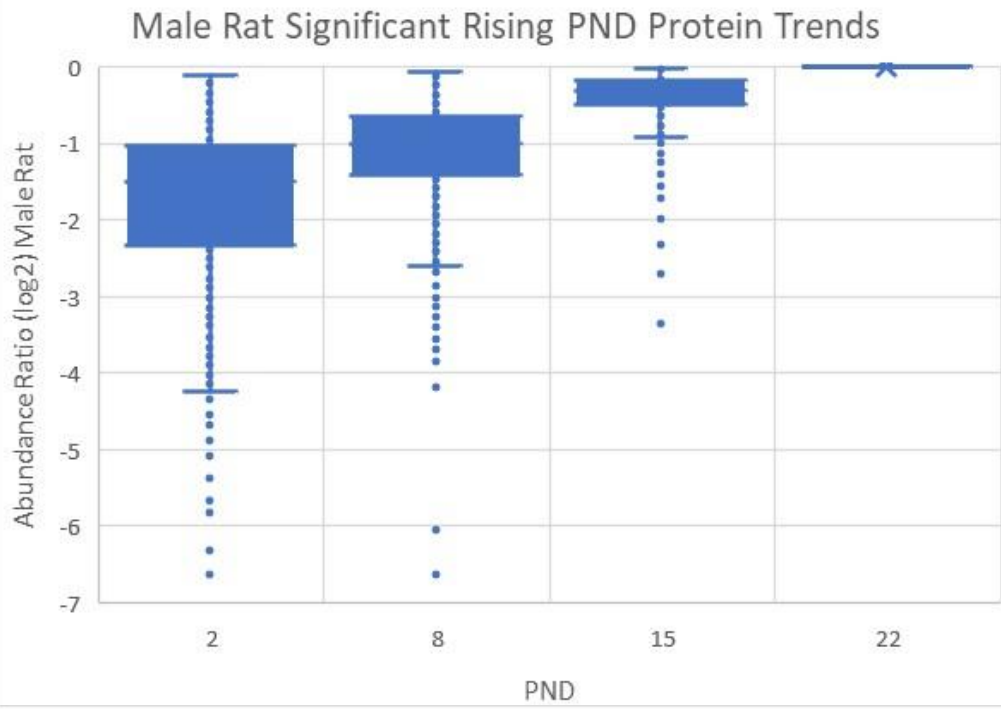
DNA, RNA - Associated Proteins Female Rat



Apoptosis-related proteins - Female Rat



S.Fig. 5



S.Fig. 6

