*Supplementary material*

# Glycyl-tRNA Synthetase (GARS) Expression Is Associated with Prostate Cancer Progression and Its Inhibition Decreases Migration, and Invasion In Vitro

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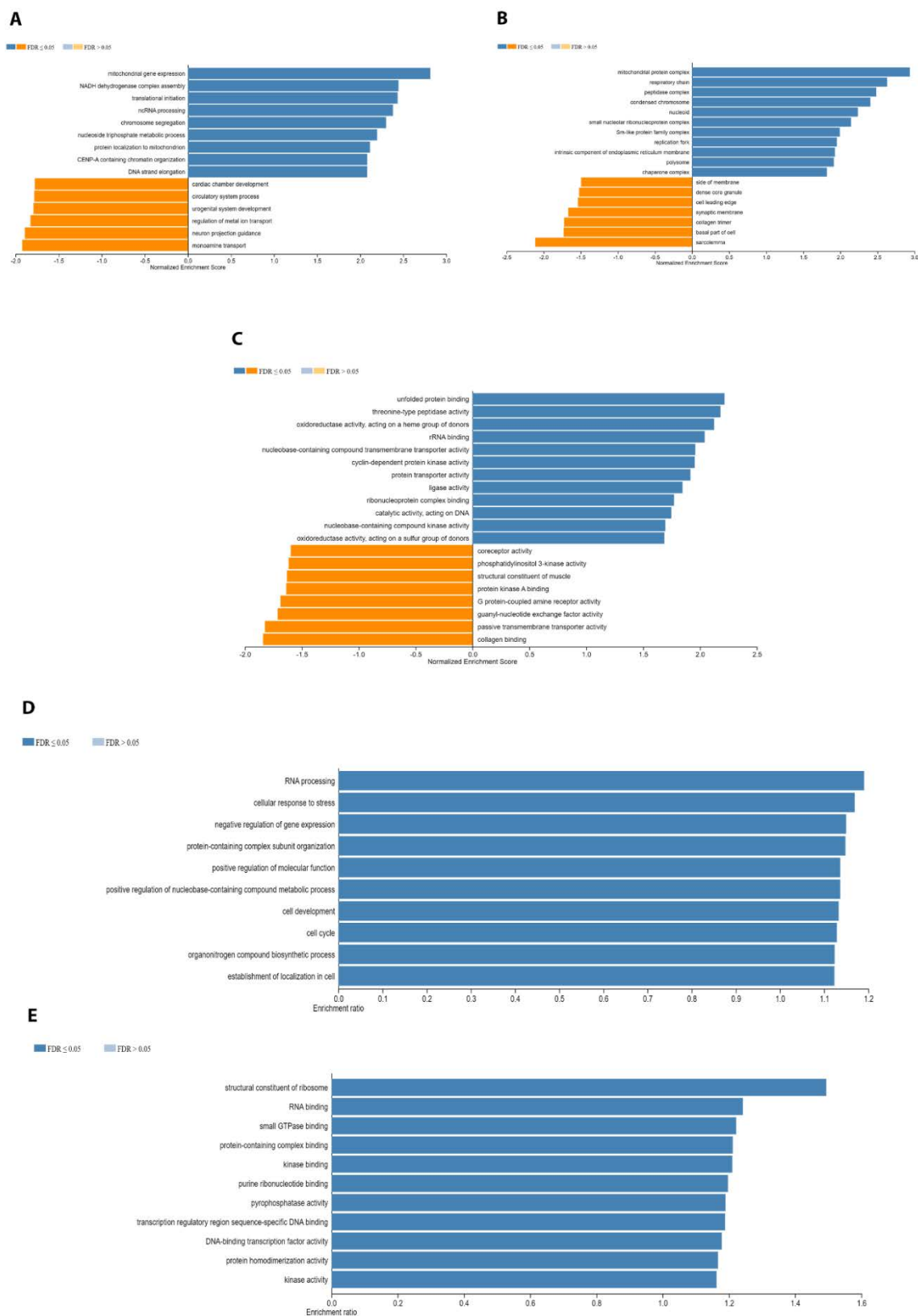[*] Correspondence: tabismar@ucalgary.ca; Tel.: +1-403-943-8430; Fax: +1-403-943-3333

**Figure S1.** *GARS* **Overrepresentation Enrichment Analysis and Gene Set Enrichment Analysis.** Bar plots showing positively and negatively correlated genes using Overrepresentation Enrichment Analysis (ORA) for **(A)** Biological Processes, **(B)** Cellular Components and **(C)** Molecular Functions. Data was analyzed using Pearson Correlation and top 25 were chosen based on FDR rank (FDR ≤

0.05). **(D,E)** Bar plots showing correlated genes using Gene Set Enrichment Analysis (GSEA) for **(D)** Biological Processes and **(E)** Molecular Functions. Data was analyzed using Pearson Correlation, minimum 10 genes, 1000 stimulations and ranked based on FDR.

**Table S1.** List of Antibodies.

| No | Antibody | Catalog number | Supplier | Western Blot Dilution |
|---|---|---|---|---|
| 1 | Anti-GARS antibody (WB) | 15831-1-AP | Protein tech | 1:1000 |
| 2 | Mouse anti-GAPDH antibody | 60004-1-Ig | Protein tech | 1:1000 |
| 3 | Anti-Cyclin B1 antibody | Y106 | Abcam | 1:1000 |
| 4 | Anti-P-PDK antibody | S241 | Cell Signaling | 1:1000 |
| 5 | Mouse anti-Rabbit IgG antibody | 7076S | Cell Signaling | 1:1000 |
| 6 | Rabbit anti-Mouse IgG antibody | 7074S | Cell Signaling | 1:1000 |
| 7 | Anti-GARS antibody (IHC) | HPA019097 | Sigma-Aldrich | 1:500 |