

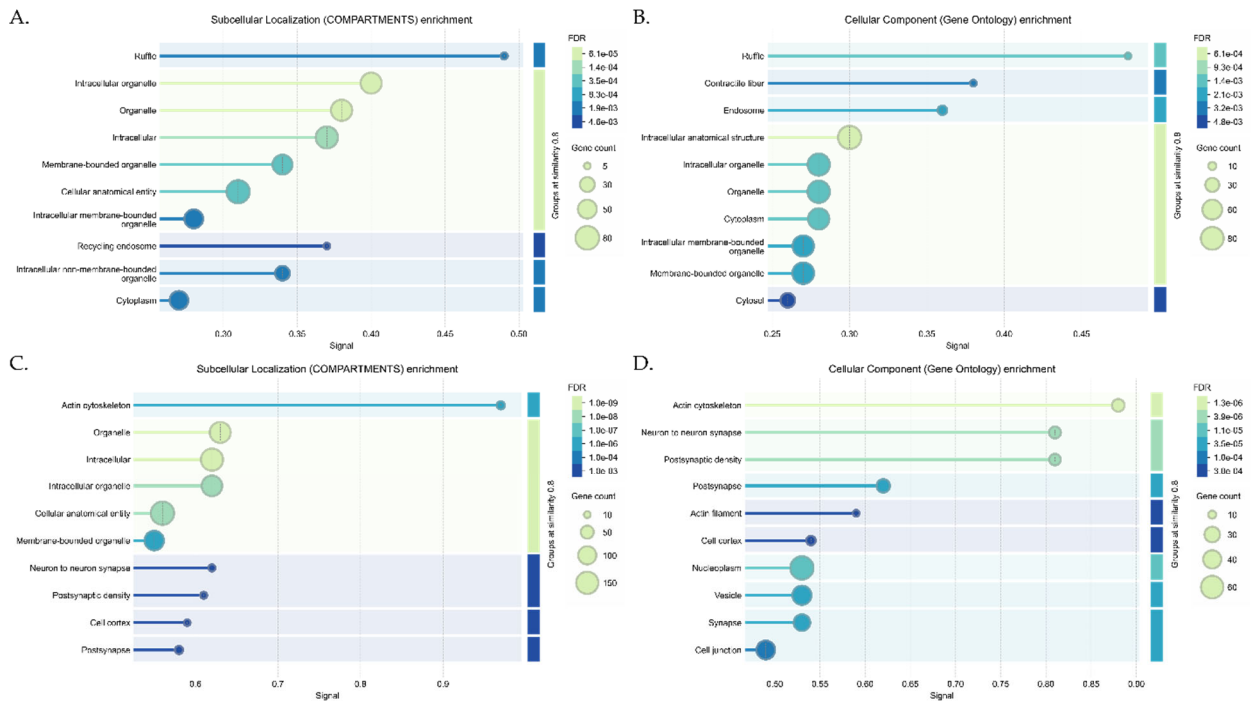


Figure S1. Enrichment analysis results for UP ceNETs in subcellular localization (Compartments) and GO cellular components. Significant compartments (A) and GO cellular component (B) terms for the 6-month-old UP ceNET, and compartments (C) and GO cellular components (D) terms for the 9-month-old UP ceNET.

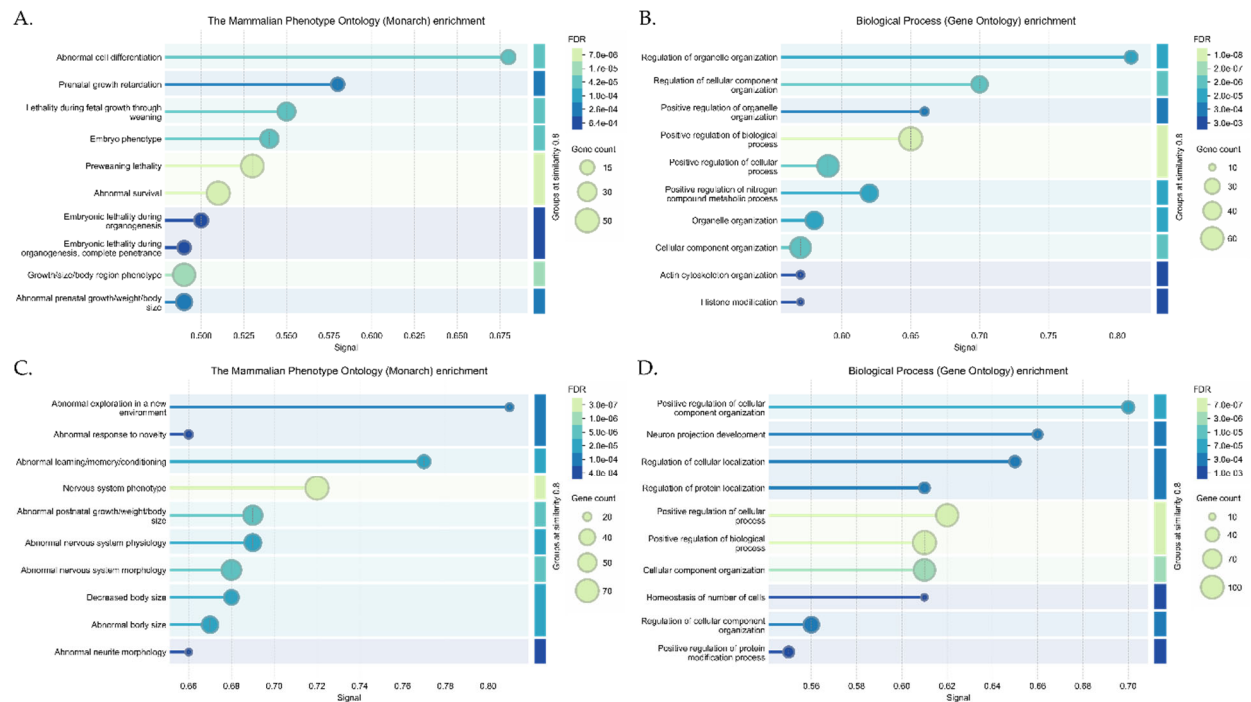


Figure S2. Enrichment analysis results for DOWN ceNETs in Mammalian Phenotype Ontology (Monarch) and GO biological processes. Significant Monarch (A) and GO biological process (B) terms for the 6-month-old DOWN ceNET, and Monarch (C) and GO biological process (D) terms for the 9-month-old DOWN ceNET.

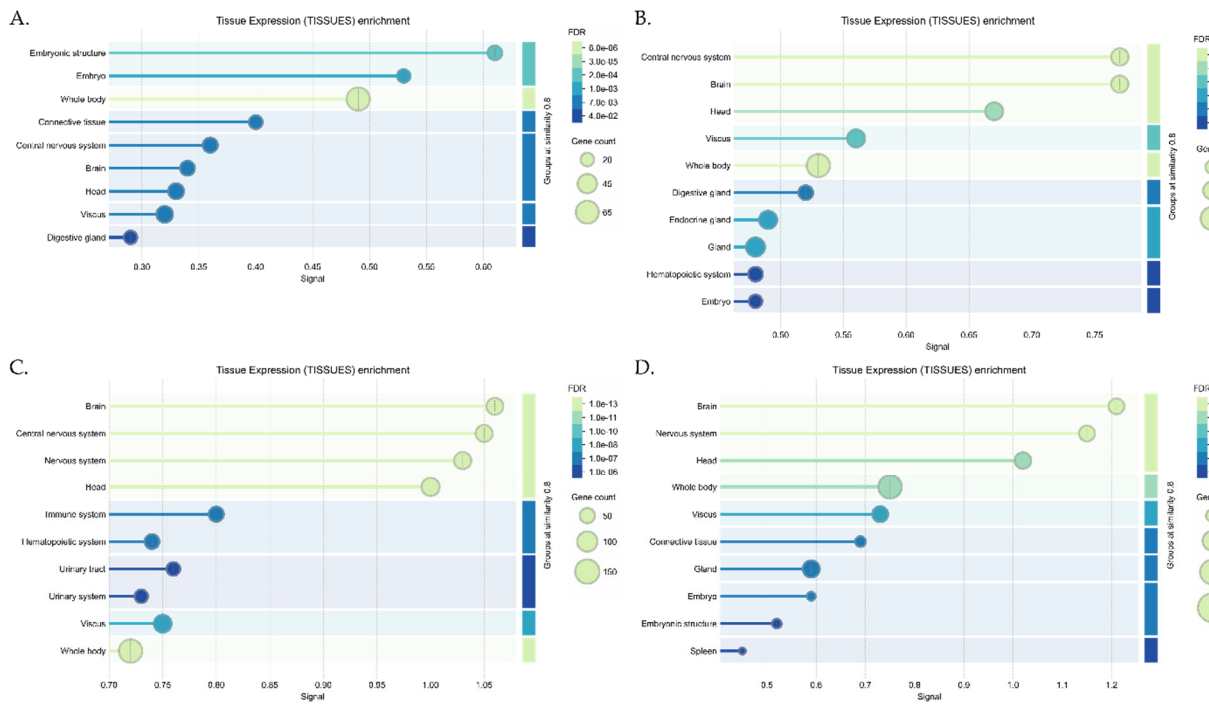


Figure S3. Main enriched tissue expression terms (TISSUES) of UP (A) and DOWN (B) 6-month ceNETs and UP (C) and DOWN (D) 9-month ceNETs.

Analysis

Compare enrichment analysis of unselected mRNA vs the appropriate ceNET:

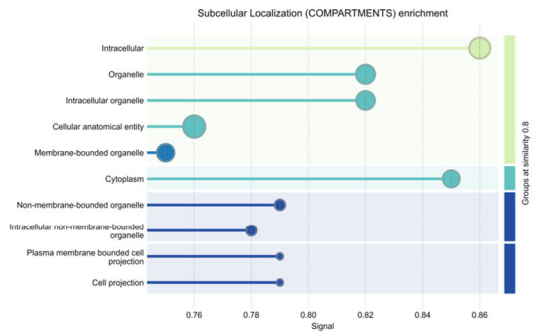
List of comparisons

- 6-month DEG Downregulated mRNAs vs 6mo DOWNceNET.
- 9-month DEG Downregulated mRNAs vs 9mo DOWN ceNET.
- 6-month DEG Upregulated mRNAs vs 6mo UPceNET
- 9-month DEG Upregulated mRNAs vs 9mo UPceNET

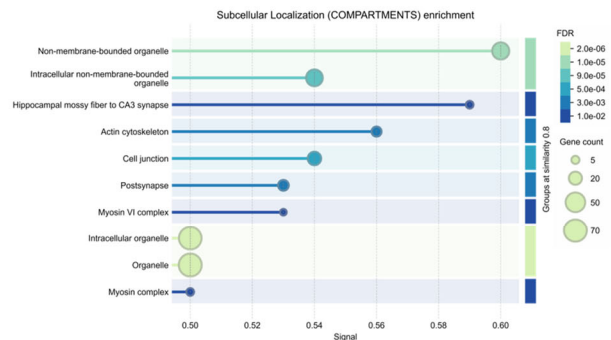
Enrichment analysis: 1) Subcellular Localization (COMPARTMENTS), 2) Cellular component (GO), 3) The Mammalian Phenotype Ontology (Monarch)

Figure S4. Comparisons done for enrichment analysis of unselected mRNAs vs ceNET mRNAs.

6-month Downregulated mRNAs vs 6mo DOWN ceNET



mRNA: unselected 6 mo downregulated



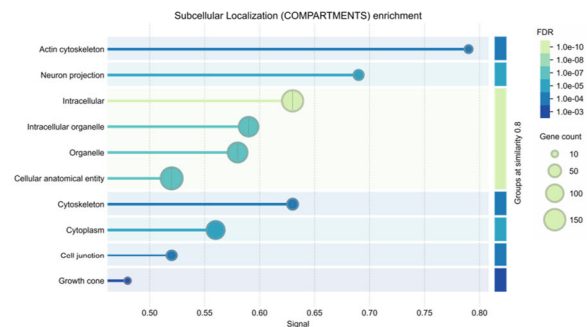
ceNET: 6mo DOWN

Figure S5. Subcellular localization (Compartments) enrichment results: 6-month Downregulated mRNAs vs 6mo DOWN ceNET.

9-month Downregulated mRNAs vs 9mo DOWN ceNET



mRNA: unselected 9 mo downregulated



ceNET: 9mo DOWN

Figure S6. Subcellular localization (Compartments) enrichment results: 9-month Downregulated mRNAs vs 9mo DOWN ceNET.

6-month upregulated mRNAs vs 6mo UP ceNET

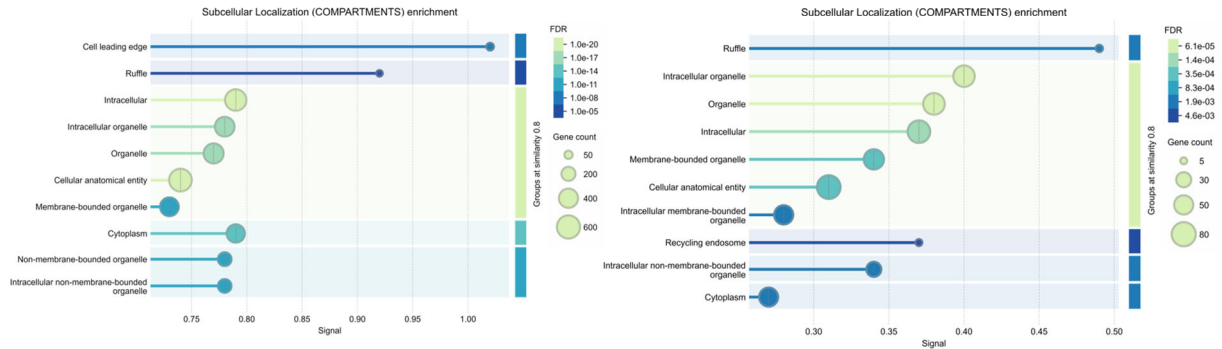


Figure S7. Subcellular localization (Compartments) enrichment results: 6-month upregulated mRNAs vs 6mo UP ceNET.

6-month Downregulated mRNAs vs 6mo DOWN ceNET

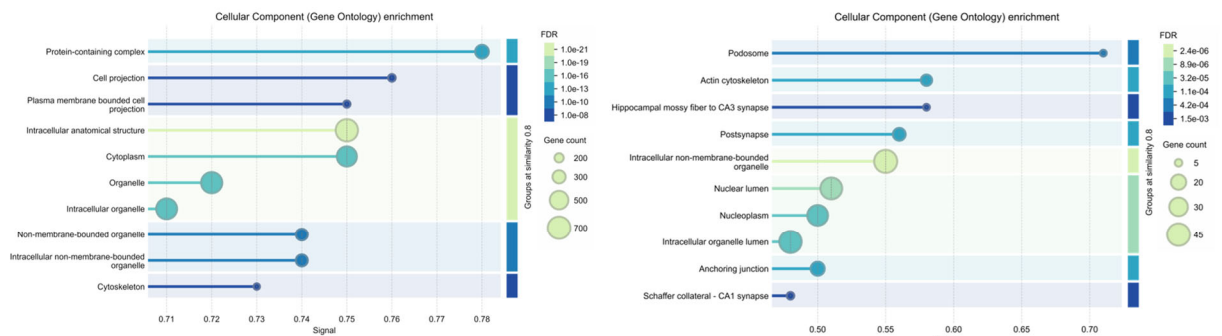
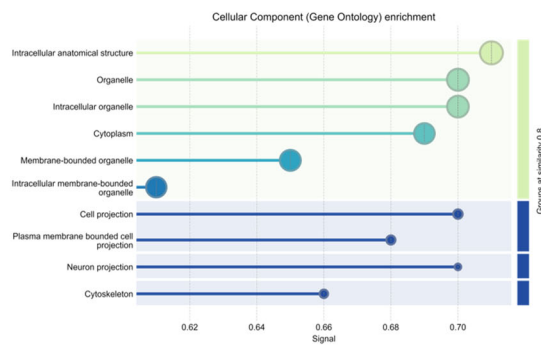
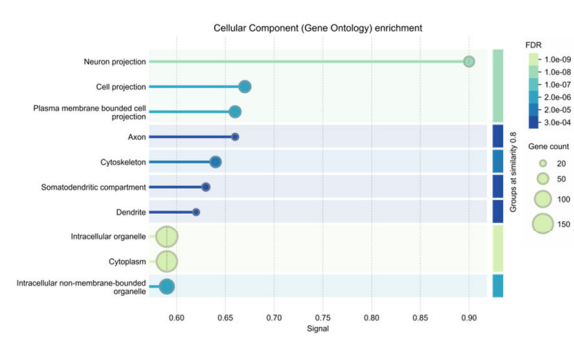


Figure S8. Cellular component (GO) enrichment results: 6-month Downregulated mRNAs vs 6mo DOWN ceNET.

9-month Downregulated mRNAs vs 9mo DOWN ceNET



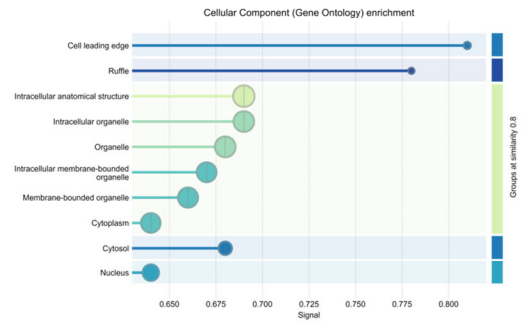
mRNA: unselected 9 mo downregulated



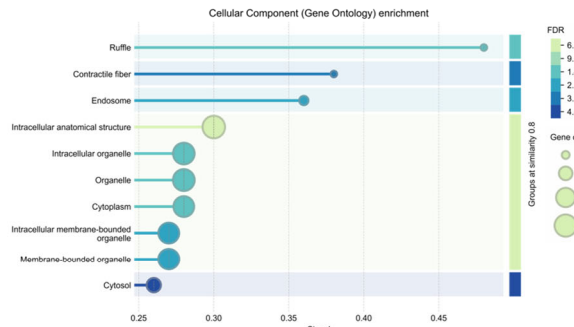
ceNET: 9mo DOWN

Figure S9. Cellular component (GO) enrichment results: 9-month Downregulated mRNAs vs 9mo DOWN ceNET.

6-month upregulated mRNAs vs 6mo UP ceNET



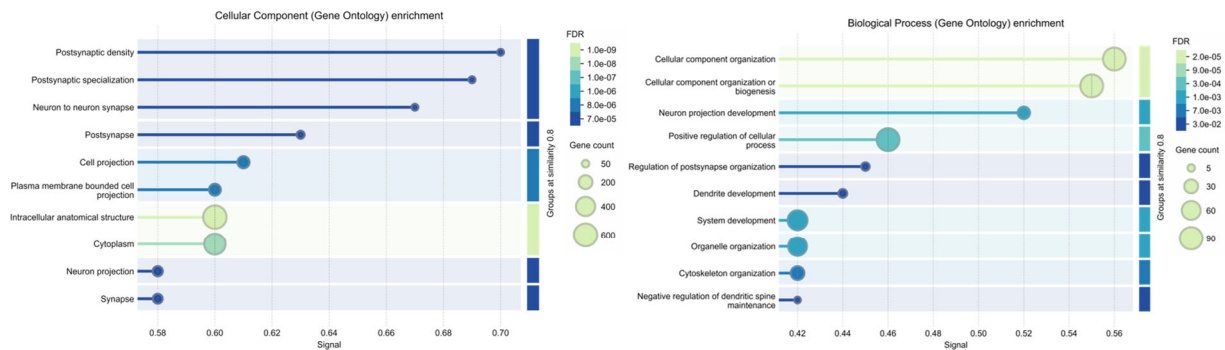
mRNA: unselected 6 mo upregulated



ceNET: 6mo UP

Figure S10. Cellular component (GO) enrichment results: 6-month upregulated mRNAs vs 6mo UP ceNET.

9-month upregulated mRNAs vs 9mo UP ceNET

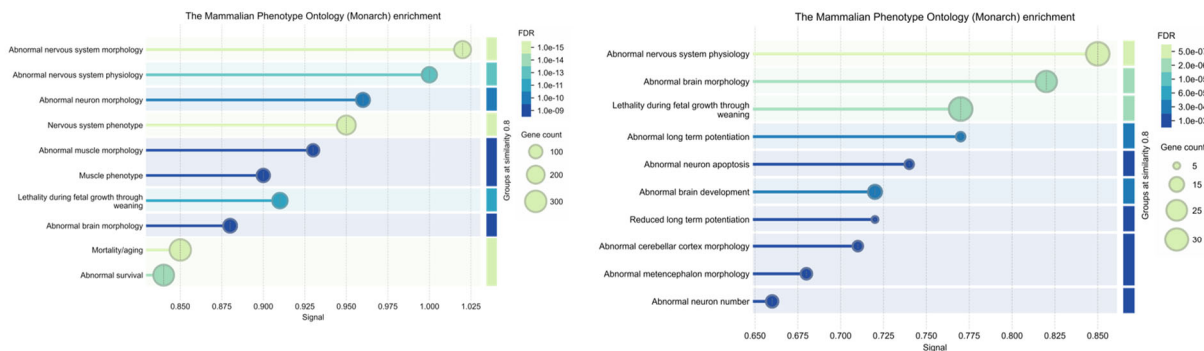


**mRNA: unselected 9 mo
upregulated**

ceNET: 9mo UP

Figure S11. Cellular component (GO) enrichment results: 9-month upregulated mRNAs vs 9mo UP ceNET.

6-month upregulated mRNAs vs 6mo UP ceNET

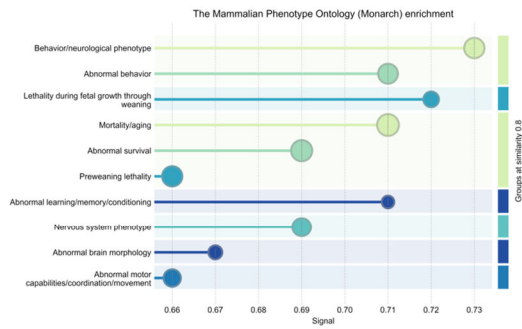


**mRNA: unselected 6 mo
upregulated**

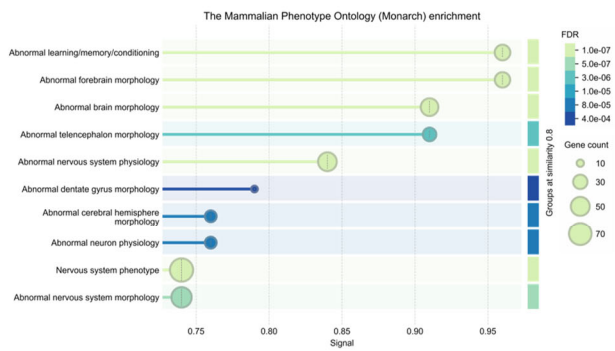
ceNET: 6mo UP

Figure S12. The mammalian phenotype ontology (Monarch) enrichment results: 6-month upregulated mRNAs vs 6mo UP ceNET.

9-month upregulated mRNAs vs 9mo UP ceNET



**mRNA: unselected 9 mo
upregulated**



ceNET: 9mo UP

Figure S13. The mammalian phenotype ontology (Monarch) enrichment results: 9-month upregulated mRNAs vs 9mo UP ceNET.