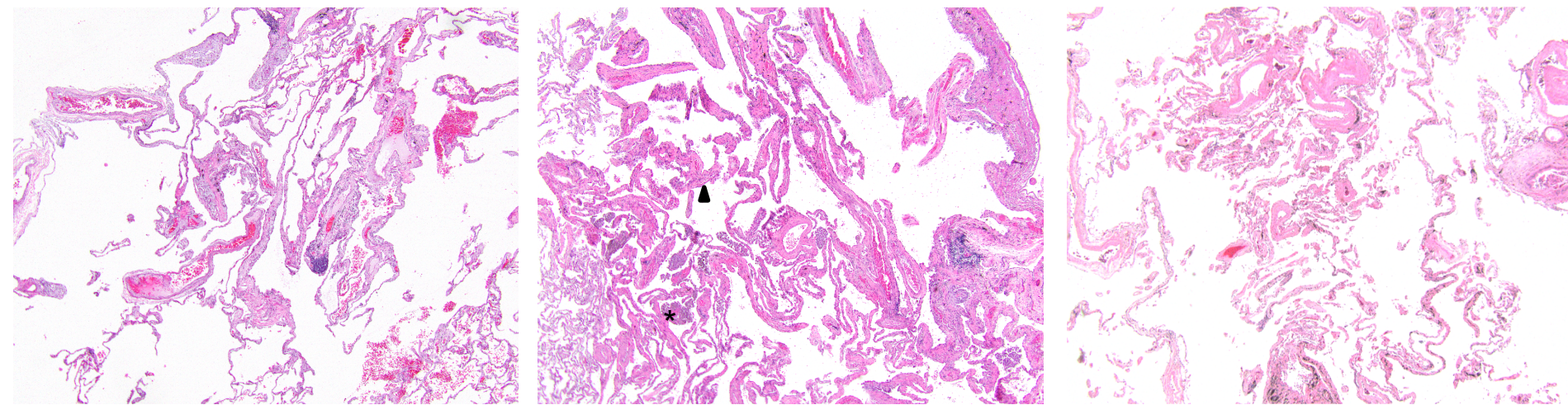


Lung Histology of three COPD cases (Hematoxylin & Eosin Staining)



Case 1

Case 2

Case 3

Cases 1 and 3: Left upper lobe histologic sections show extensive centrilobular emphysema manifesting as loss of the normal alveolar architecture with simplification of the airspaces (Cases 1 and 3). Case 2: Left upper lobe histologic section shows similar findings to Cases 1 and 3. In addition, there is extensive dust-laden (smoker's) macrophages (asterisk) in the airspaces and thickening of the alveolar septum by collagenous fibrosis (arrowhead) indicating smoking-related interstitial fibrosis (Magnification 40x).

Macrophages: Revigo summary of GO.BP enriched in upregulated COPD genes

REVIGO Gene Ontology treemap

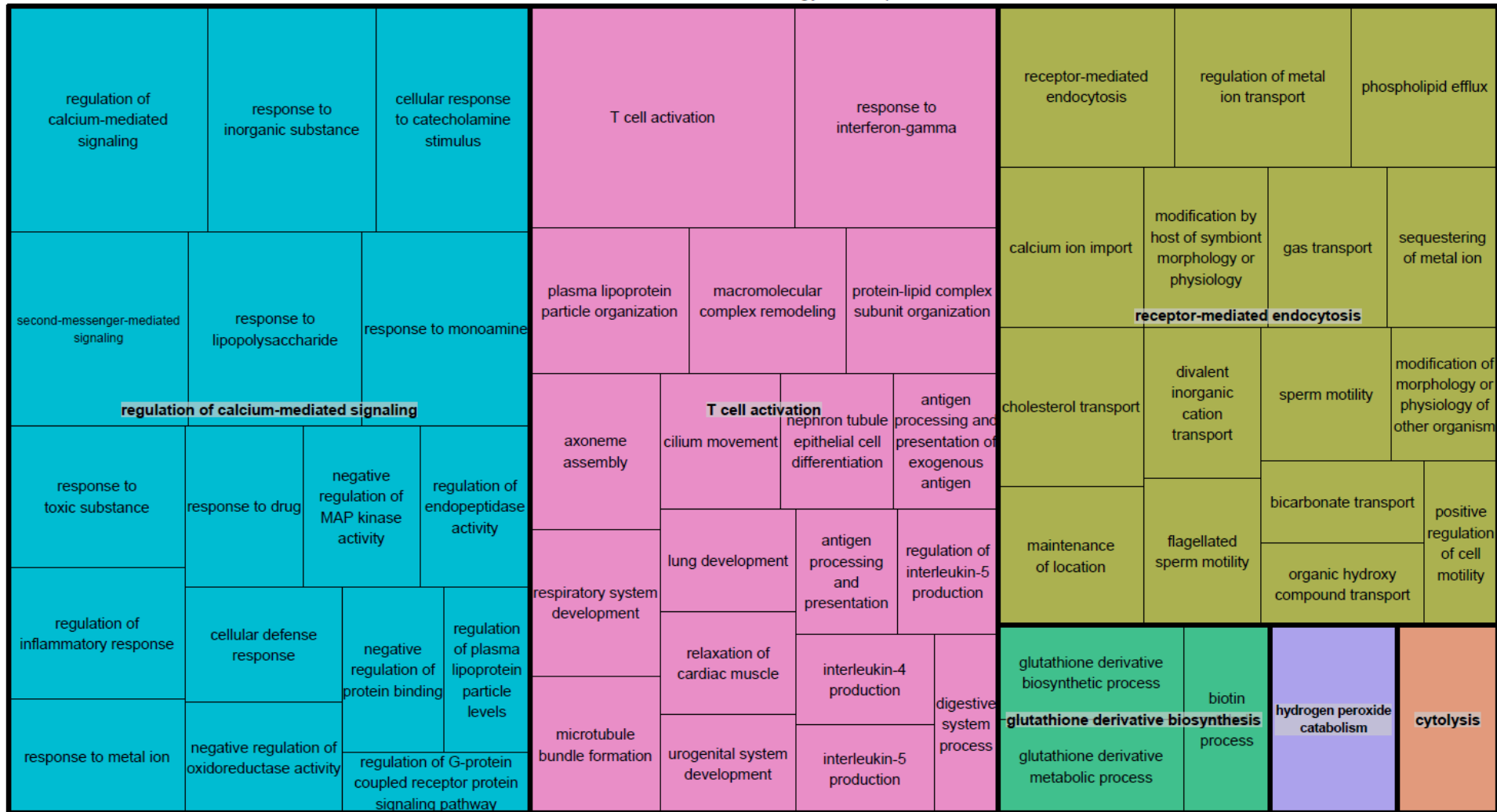


Figure S2

Monocytes: Revigo summary of GO.BP enriched in upregulated COPD genes

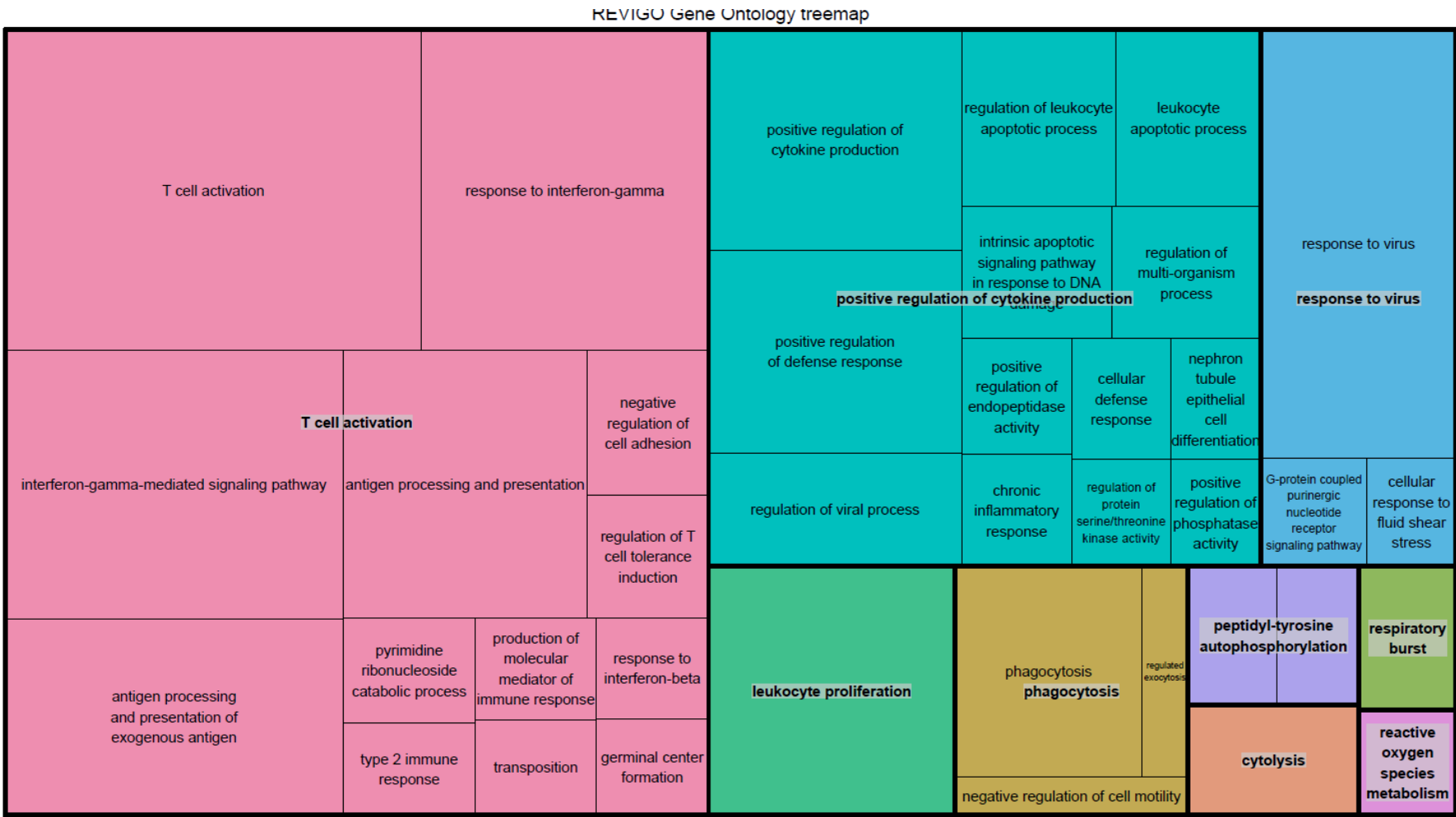


Figure S3

Ciliated epithelial cells: Revigo summary of GO.BP enriched in upregulated COPD genes

REVIGO Gene Ontology treemap

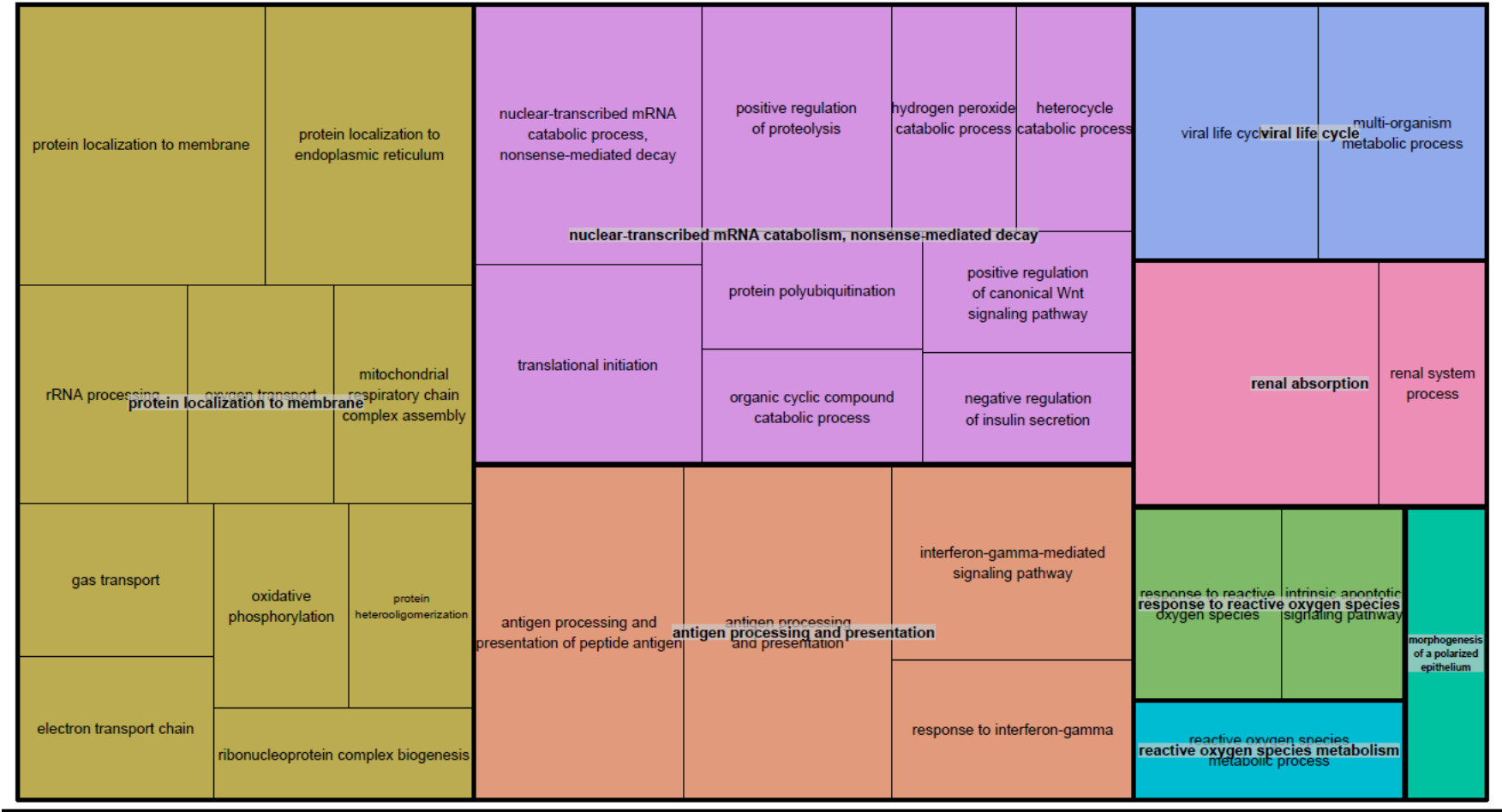


Figure S4

NK cells: Revigo summary of GO.BP enriched in upregulated COPD genes

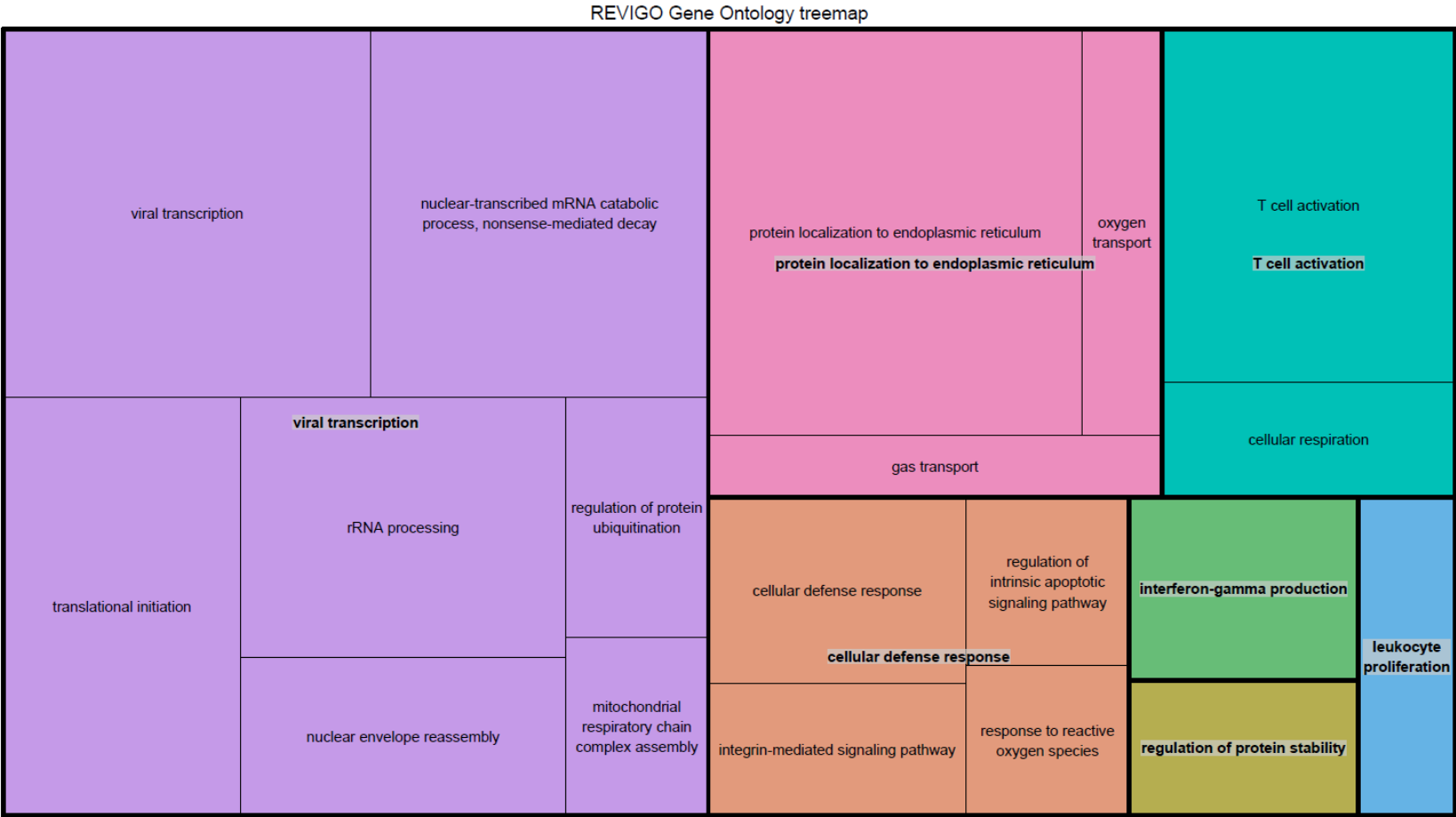


Figure S5

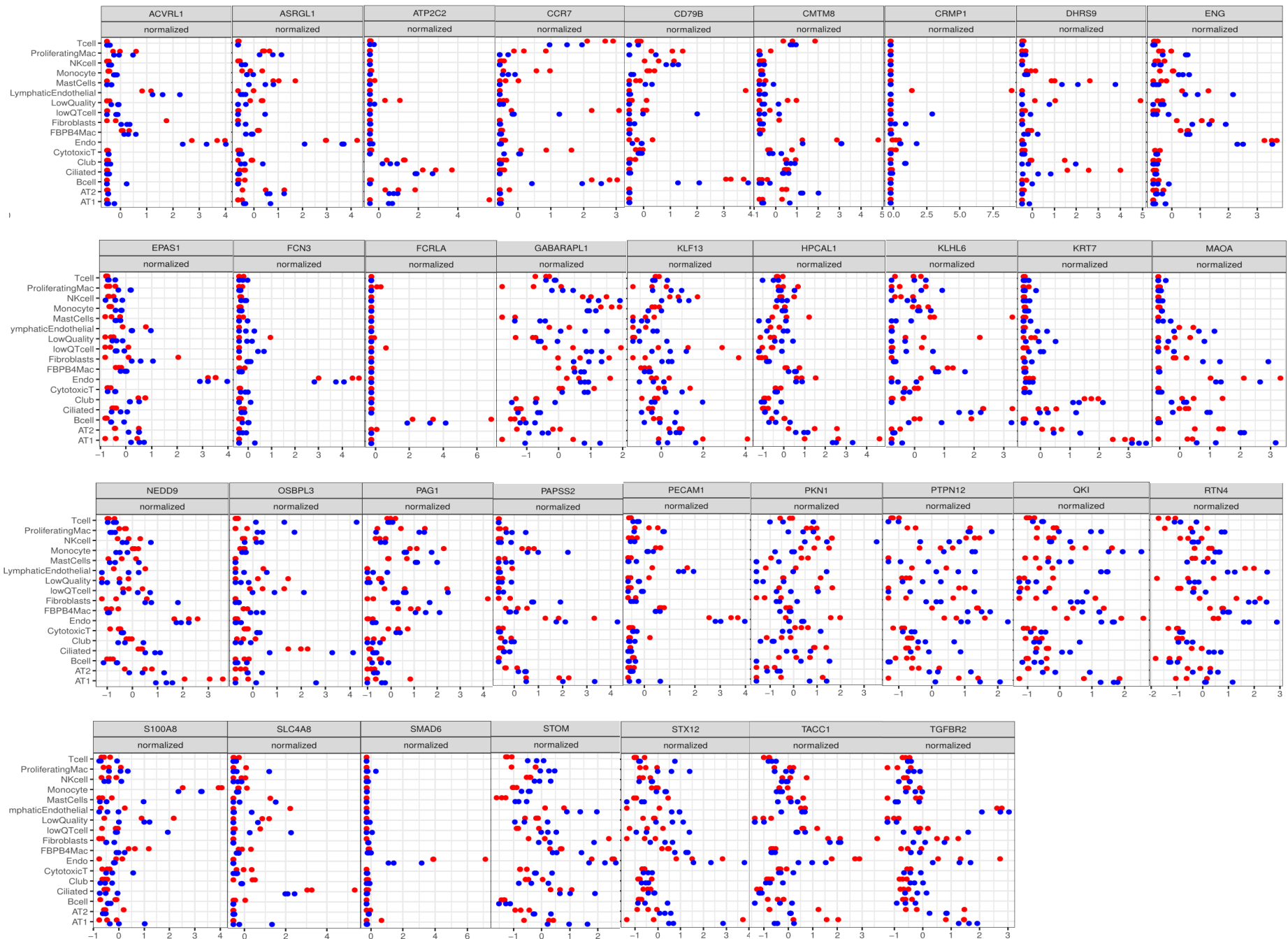
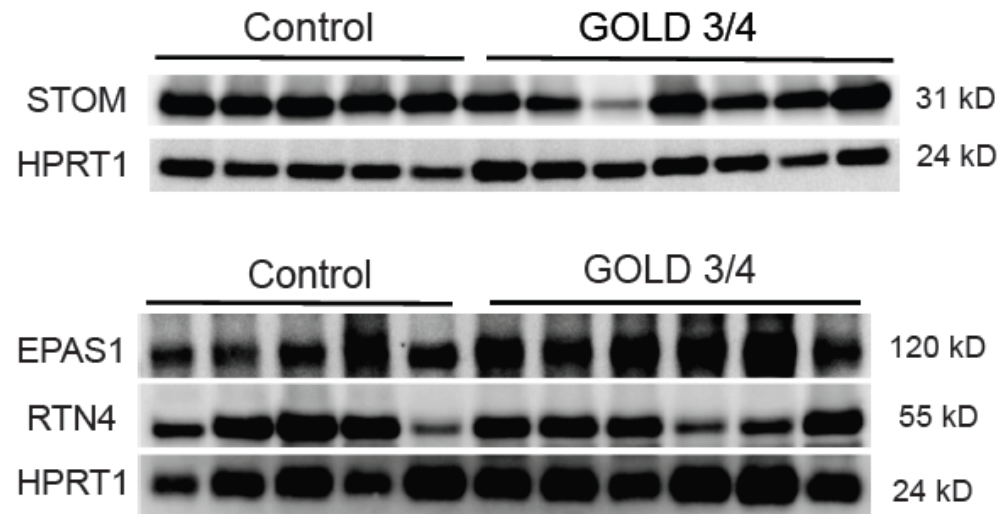


Figure S6

A.



B.

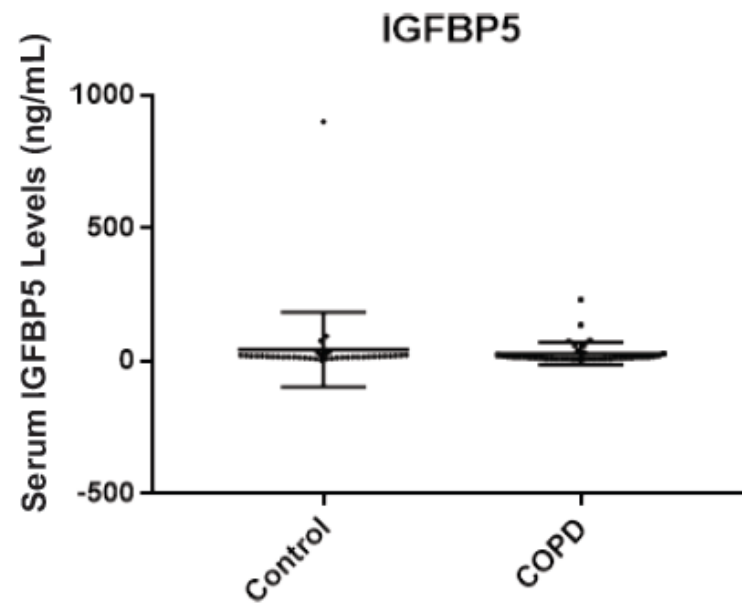


Figure S7