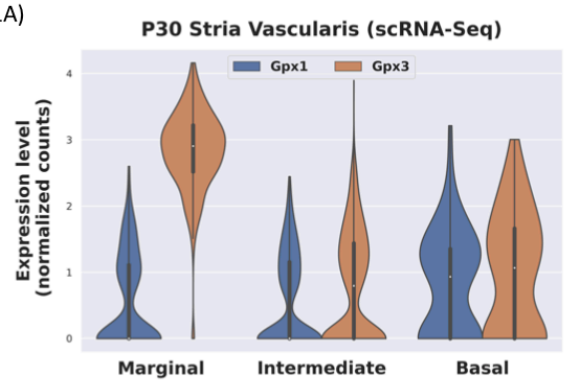
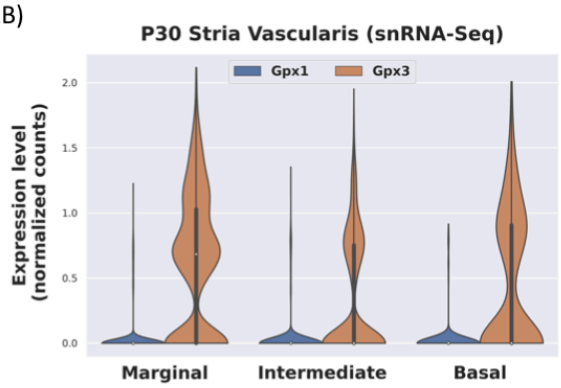
Supplemental Digital Content, Figure 1A-D. Differential Expression of Glutathione Peroxidase Isoforms Amongst Cochlear Cell Types

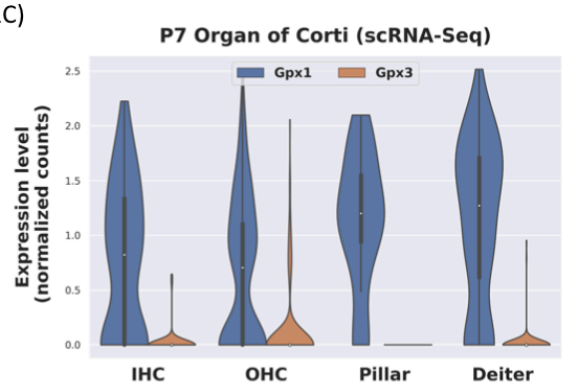
1A)



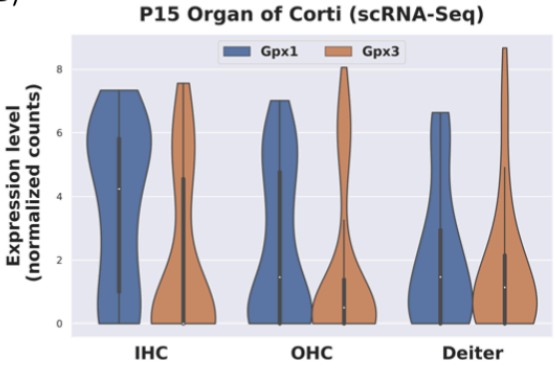
1B)



1C)



1D)



Suppl. Digital Content 6, Figure 1. Differential expression of glutathione peroxidase isoforms amongst cochlear cell types. Violin plots display cell types along the horizontal axis with expression level in normalized counts along the vertical axis. Expression of glutathione peroxidase isoforms are shown for *Gpx1* (dark blue) and *Gpx3* (orange). The wider the violin plot, the more cells express the given isoform at the given expression level. **A,** Expression of glutathione peroxidase isoforms in P30 stria vascularis cell types from the scRNA-Seq dataset. Note the increased expression of *Gpx3* in marginal cells. **B,** Expression of glutathione peroxidase isoforms in the P30 stria vascularis from the snRNA-Seq dataset. Note the relative enrichment of *Gpx3* over *Gpx1* amongst cell types in the stria vascularis. C, Expression of glutathione peroxidase isoforms in the P7 organ of Corti scRNA-Seq dataset. Note the relative enrichment of *Gpx1* over *Gpx3*. D, Expression of glutathione peroxidase isoforms in the P15 organ of Corti scRNA-Seq dataset. Note the relative enrichment of *Gpx1* over *Gpx3*.

Methods:

***Visualization of P25-27 mouse spiral ganglion neuron scRNA-Seq*.** Previously published normalized datasets detailed in the methods section were processed using Scanpy (v1.5.1). Cell clustering and annotation was performed using modularity-based clustering with Leiden algorithm (resolution=2.0) implemented in Scanpy. Violin plots were plotted by Seaborn (v0.10.1).