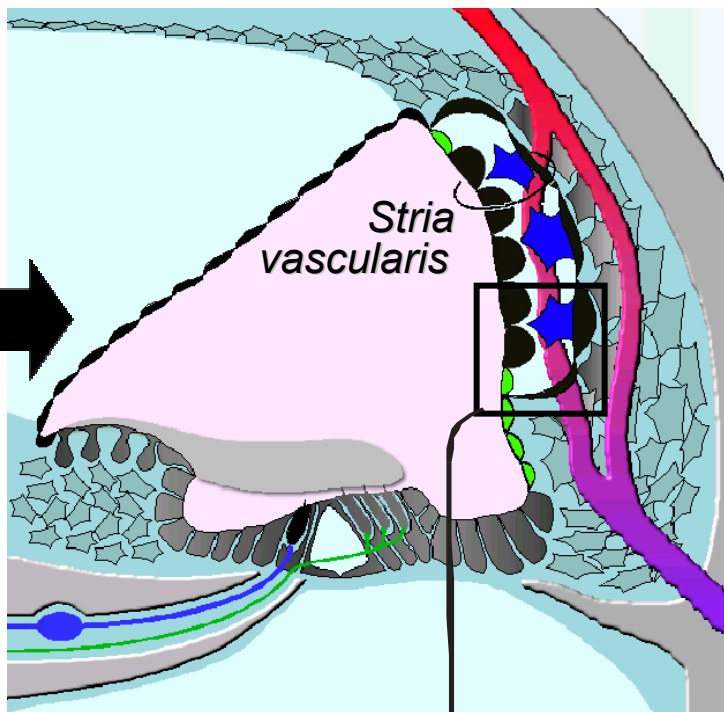
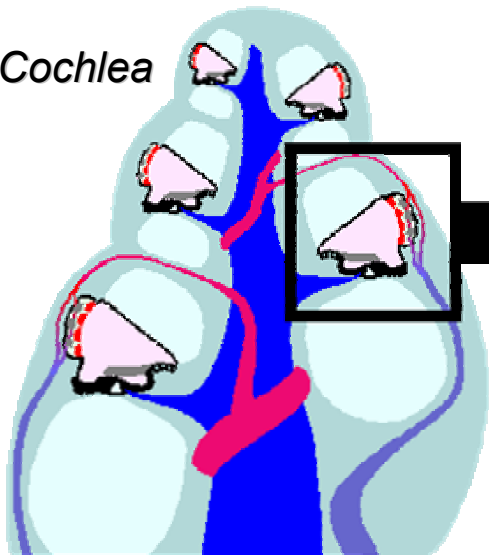


Cochlea



Strial marginal cell

Free Radicals

CO_2

HCO_3^-

Pendrin

Spindle-shaped cell

Basal cell

Melanin synthesis

Free Radical detoxification

Loss of KCNJ10 protein expression

CA

$\text{HCO}_3^- + \text{H}^+$ (pH)

HCO_3^-

H^+

pH↑

CO_2

Cys
Glu
Gly

GST

GSH

Intermediate cell