**scala vestibuli (perilymph)**

**Fz,m(,t), Fz,t(,t), combination**

**scala media (endolymph)**

**Tt,2(t) **

** Tt,1(t)**

**= Tt(t)**

**Fz(,t)**

**r**

**scala tympani (perilymph, K+, Na+, Cl-, Ca++, Mg++, OH-, and H3O+)**

**Fz,b(,t)**

**rd**

**z**

**e**

**r**

****

**x**

**Reissner’s Membrane**

**Tectorial Membrane**

**Hair and Supporting Cells**

**Basilar Membrane and Connective Tissue**

**Wave in Perilymph/Endolymph Fluids**

**Resonance at er**

**Signals on the Membranes**

**Nervous Electric Signal to Brain**

**Spiral Ganglion**

**y**

Fig. 3. External forces (the thicker, the stronger) and tension of elements of reissner’s, tectorial and basilar membranes; receptors: hair cells in organ of Corti and spiral ganglion, See the text. The draw is not to scale.