

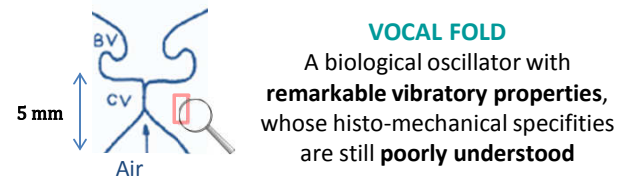


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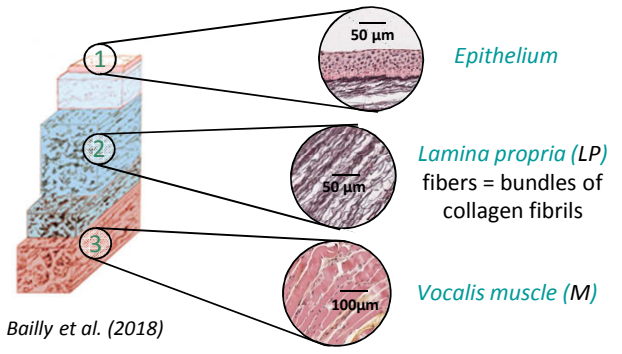
Comportement biomécanique des plis vocaux humains: modélisation théorique, numérique et validation expérimentale

Biomechanics of human vocal folds: theoretical, numerical modelling and experimental validation

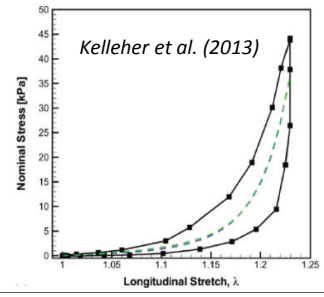
Context



Multiscale fibrous structure



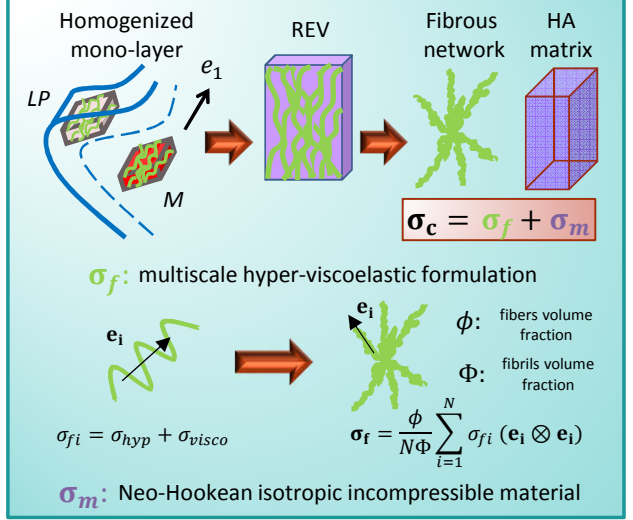
Visco-hyperelastic mechanical behavior



Objective
To provide a 3D physical-based model able to enclose the material's complexity

Method

Multiphase constitutive formulation



FEM simulations



Experimental validation

Results

