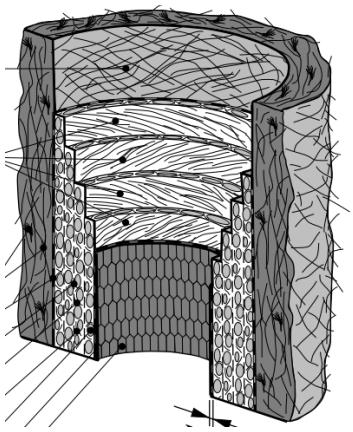
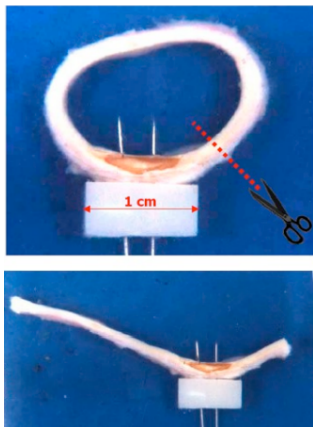
MATH 801 - Topics in Applied Mathematics: Biological Continuum Mechanics

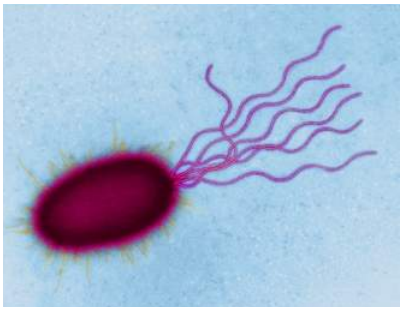
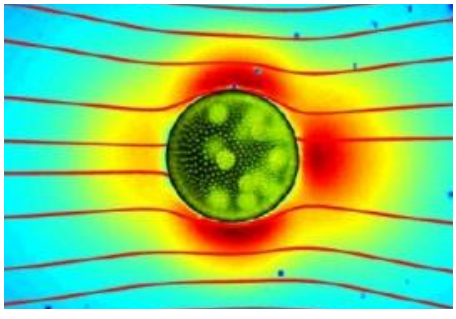
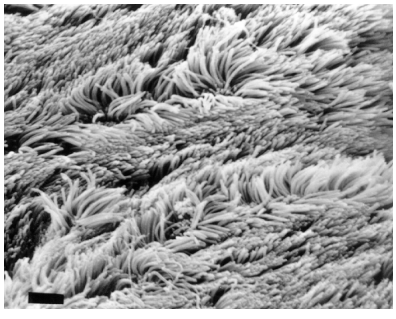
Spring 2014
Time / Location: TBA

Instructor: Saverio Spagnolie



In this course we will explore mathematical continuum mechanics and a number of applications in biological systems. Topics will include an introduction to continuum mechanics, constitutive laws, approximate models, objectivity, nonlinear elasticity, viscoelasticity, morpho-elasticity (growth), tissue modeling, membranes, slender-body theory, biolocomotion, and active fluids.

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