Mini-symposium 2.2: Mechanics of Soft Biological Tissues

Organisers: Aline Bel-Brunon (INSA de Lyon), Gerard Ateshian (columbia)Soft tissue biomechanics encompasses a multifaceted exploration of biological tissues' mechanical behavior, to understand their functionality and pathophysiology. This mini symposium will delve into methodological advancements across different scales, from molecular to organ levels, illuminating the complexities of soft tissue mechanics. Presentations will spotlight innovative experimental devices and techniques tailored for precise biomechanical characterization, computational modeling of soft tissue behavior, advances in imaging techniques for biomechanical analysis, and clinical applications. Contributions on emerging topics in soft tissue biomechanics, such as lung, abdomen and reproducive systems biomechanics, as well as rupture, growth and remodeling, are encouraged.