

Resource Summary Report

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Simulating colonic tissue mechanics using a structure-based material model in Abaqus

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Type: Protocol

Proper Citation

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Protocol Information

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Summary: The structure-based material constitutive model typically used for the colon tissue (DOI:10.1016/j.jmbbm.2017.08.031, DOI:10.1016/j.jmbbm.2013.02.016) is not readily available in the Finite Element software Abaqus, which is commonly used for biomechanical simulations. In this protocol, we provide step-by-step guidelines to use such material model in Abaqus using the User Subroutine implemented by the autor.

Affiliations: California Medical Innovations Institute

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