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Mechanical and histological properties of liver tissue

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In order to gain further insight into the mechanisms of tissue damage during the progression of liver diseases as well as the liver preservation for transplantation, an improved understanding of the relation between the mechanical and histological properties of liver is necessary. In this talk, I will summarize our studies on the characterization of mechanical properties of human and animal livers at the macroscopic level and their correlation to the histological properties at the microscopic level. Our work provides insight into the relation between liver elasticity and fibrosis during disease progression and the extent of the preservation period during transplantation.

Biography

Cagatay Basdogan is a member of faculty in College of Engineering at Koc University. He received his PhD degree in biomechanics from Southern Methodist University in 1994 and worked at NASA-JPL for 3 years, MIT for 3 years, and at NWU for 2 years before joining to Koc University. His studies in biomechanics have mainly focused on mechanical and histological characterization of healthy and diseased liver. In addition to serving in the editorial board of 2 journals, program and organizational committees of several conferences, he also chaired the IEEE World Haptics Conference in 2011.

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