



IL GIORNO 9 GENNAIO  
DALLE ORE 14 ALLE ORE 15  
NELL'AULA MA6  
DELL'UNIVERSITA' DI ROMA "FORO ITALICO"  
SI TERRA' IL SEGUENTE SEMINARIO

Title:

**The energy-saving benefits of the Achilles tendon during walking, how humans seem to screw it up, and what it means for improving prosthetic technology**

Speaker:

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**Abstract**

Lower-limb amputees struggle with mobility-related challenges that make ambulation more fatiguing and increase their risk of developing degenerative disorders such as osteoarthritis. However, amputee health and quality of life may be improved by developing prostheses that more effectively restore lower-limb function, in particular that of the ankle and foot. This presentation summarizes a series of experimental and computational studies that explore the natural function of the ankle during walking, specifically the energy-saving benefits of Achilles tendon elasticity, the somewhat enigmatic role of the foot, and the implications for advancing prosthetic feet and other assistive technologies.

I colleghi interessati sono invitati ad intervenire