



INTERUNIVERSITY CENTRE OF BIOENGINEERING OF
THE HUMAN NEUROMUSCULOSKELETAL SYSTEM

UNIVERSITÉ AIX-MARSEILLE; CLAUDE BERNARD LYON 1; UNIVERSITÀ DEGLI STUDI DI
NAPOLI "FEDERICO II", POLITECNICA DELLE MARCHE, ROMA "FORO ITALICO",
ROMA "ROMATRE", SASSARI

IL GIORNO 12 SETTEMBRE
DALLE ORE 11 ALLE ORE 12
NELL'AULA MA4
DELL'UNIVERSITA' DI ROMA "FORO ITALICO"
SI TERRA' IL SEGUENTE SEMINARIO

Title:

HUMAN INJURY BIOMECHANICS

Speaker:

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Abstract:

Research in human injury biomechanics investigates mechanisms which cause traumatic injuries. Simulation of injuries in the laboratory using cadaveric models facilitates detailed studies of traumatic injury mechanisms including quantification of loads and motions required to cause injury. Understanding the biomechanical mechanism of injury is important clinically to help guide and inform stability needs of the patient and in choosing the most appropriate treatment option. The biomechanical data are also needed for the future development of injury prevention systems and rule modifications in sports. In this talk, I will review research in human injury biomechanics with emphasis on spine injuries. I will address: mechanisms of whiplash injuries and their prevention; cervical disc herniation and facet joint injuries due to whiplash; upper cervical spine trauma including atlas and dens fractures; lower cervical facet dislocation; neck compression injuries due to head-first impact; and mechanisms of thoracolumbar spine injuries due to fall from height.

I colleghi interessati sono invitati ad intervenire

ADMINISTRATIVE SEAT:

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