



**14<sup>th</sup> International Conference on Fracture (ICF14)  
Rhodes, Greece, June 18-23, 2017**

**Mini-Session:**

**Bone Tissue Fracture**

Organized by:

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Bone tissues are responsible for giving support and structure to vertebrates. At present, effort is devoted to provide parameters to predict and prevent the risk of fracture. This risk can be significantly increased by certain illnesses, such as osteoporosis. Understanding and analyzing the fracture and damage of bones at different scales is needed to accurately predict their failure.

Bones have an heterogeneous structure and can be considered as made of composite materials with different phases and anisotropic properties, which adds difficulties for the analysis of fracture.

This session aims at the study of fracture and damage of bone at different scales and conditions:

- macroscopic fracture of bone
- microcracks in cortical bone tissue
- failure of spongy cancellous bone
- failure at the submicroscale (mineralized fibril level)
- prediction of fracture patterns
- patient specific simulation
- interaction with prosthesis and other interfaces
- experimental testing and numerical modelling.

Interested in participating in this mini-session, please submit their abstracts by 31<sup>st</sup> of October 2016 through the conference website (<http://www.icf14.org>) and assign the abstract to "Bone Tissue Fracture".