

# EUROMAT 2019 / Area F: Materials for Healthcare

## SYMPOSIUM: F2

Title: Bioactive ceramics, bioactive glasses and composites for tissue engineering and other advanced healthcare applications		
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Abstract		
<p>This symposium will cover bioactive ceramics, glasses and composites used in the tissue engineering and regenerative medicine fields, as well as in other advanced healthcare applications, for example for cancer treatment. The focus will be on scientific and technological aspects related to the design, fabrication and characterization of innovative biomaterials for existing as well as emerging applications, ranging from bone tissue engineering to wound healing, interface and soft tissue repair. The challenges and future research themes in this growing area will be addressed, including the search for the most effective scaffolds, cell types and signals to achieve functional tissue regeneration. Bioactive ceramics and glasses incorporated with biologically active ions for specific regenerative applications will be covered. The symposium will thus offer a platform for presentation and discussion of the most recent and relevant results in this highly interdisciplinary field.</p> <p>Topics to be covered by the symposium include but are not limited to:</p> <ul style="list-style-type: none"><li>• Biomimetic Scaffolds</li><li>• Bone regeneration and reconstruction</li><li>• Bioactive and biodegradable materials</li><li>• Vascularisation and angiogenesis</li><li>• Therapeutic ion delivery</li><li>• Material testing</li><li>• Cell behavior in regeneration</li><li>• <i>In vivo</i> models</li><li>• Nanomedicine</li></ul>		