



TERMIS – EU SYMPOSIUM SUBMISSION FORM

Title:	ADIPOSE TISSUE DERIVED STEM CELLS IN TISSUE ENGINEERING APPROACHES	
	Name	Affiliation
Chair:	Manuela E. Gomes	<i>3B's Research Group – Biomaterials, Biodegradables and Biomimetics, Dept. of Polymer Engineering, University of Minho, Headquarters of the European Institute of Excellence on Tissue Engineering and Regenerative Medicine, AvePark, Taipas, 4806-909 Guimarães, Portugal.</i> and <i>IBB – Institute for Biotechnology and Bioengineering, PT Government Associated Laboratory</i>
Co-Chairs:	Rui L. Reis	<i>3B's Research Group – Biomaterials, Biodegradables and Biomimetics, Dept. of Polymer Engineering, University of Minho, Headquarters of the European Institute of Excellence on Tissue Engineering and Regenerative Medicine, AvePark, Taipas, 4806-909 Guimarães, Portugal.</i> and <i>IBB – Institute for Biotechnology and Bioengineering, PT Government Associated Laboratory</i>
Keynote Speaker *:	Jeffrey Gimble	Stem Cell Biology Laboratory, Pennington Biomedical Research Center, Louisiana State University System, Baton Rouge, LA, USA
Organizers:	Manuela E. Gomes	<i>3B's Research Group – Biomaterials, Biodegradables and Biomimetics, Dept. of Polymer Engineering, University of Minho, Headquarters of the European Institute of Excellence on Tissue Engineering and Regenerative Medicine, AvePark, Taipas, 4806-909 Guimarães, Portugal.</i> and <i>IBB – Institute for Biotechnology and Bioengineering, PT Government Associated Laboratory</i>
Synopsis:		
Please provide a brief synopsis of the proposed symposium (up to 600 words). Please use allocated space below.		
<p>In 2001 it was reported for the first time the existence of stem cells within the adipose tissue, and since then, this tissue has been gaining an increased importance as a stem cells source for a wide range of potential applications in Tissue Engineering and Regenerative Medicine. Adipose tissue is probably the most abundant and accessible source of adult stem cells and thus it holds great promise for use in tissue repair and regeneration. In fact, Adipose Stem Cells (ASCs), present several advantages over other adult stem cell sources, such as the bone marrow, as they can be obtained in larger quantities, under local anesthesia and with minimal discomfort. Furthermore, it has been demonstrated that adipose tissue-derived stem cells (ASCs) possess multiple differentiation capacities.</p> <p>Nevertheless, to take full advantage of this cell source for Tissue Engineering applications, current research has been addressing several issues, such as, for example, the differences found in the harvesting methods, differences in fat tissue derived from different anatomic sites and the heterogeneity of the cells population that are obtained using the isolation methods most commonly used do far. Many researcher have focused essentially in their potential use in a number of regenerative medicine approaches, based o their wide availability, possibility of autologous use and differentiation potential.</p> <p>In summary, the aim of this Symposium is to expose most recent findings and knowledge generated from research on adipose derived stem cells, focused on their application in tissue engineering/regeneration.</p>		
Symposium Keywords:	Adipose derived stem cells, cell harvesting and culturing, stem cells differentiations, cell based therapies	

***The Keynote Speaker needs to be confirmed at the time of the proposal**