

Day 1 Thursday, October 27	
09.00-09h45	Registration (Foyer)
09h45-10h00	Welcome and Opening Ceremony Rui L. Reis and Alexandra P. Marques (3B 's Research Group, University of Minho, Portugal TERM STEM 2016 Conference Chairs)
	Session I Chairs: Rui L. Reis Claire Higgins
10h00-10h45	IL01 - Scaffold-free three-dimensional graft from autologous adipose-derived stem cells for large bone defect reconstruction <u>Denis Dufrane</u> (<i>Novadip Biosciences, BE</i>)
10h45-11h00	Coffee Break / Poster Session
11h00-11h45	IL02 - Bioprinting of full-thickness skin models <u>Delphine Fayo</u> , M. Salducci, C. Artiges, C. Poiron, M. Garcia, F. Guillemot (<i>Poietis, FR</i>)
11h45-12h30	IL03 -Cell-Assembled Extracellular Matrix (CAM): a unique biomaterial for vascular applications and much more <u>Nicholas L'Heureux</u> (<i>INSERM, FR</i>)
12h30-14h30	<i>Lunch (Café-Concerto)</i>
	Session II Chairs: Alexandra P. Marques Nicholas L'Heureux
14h30-15h30	KL01 - Cell Sheet Engineering for Biomedical applications <u>Tatsuya Shimizu</u> (<i>Institute of Advanced Biomedical Engineering and Science, Tokyo Women's Medical University, Tokyo, JP</i>)
15h30-16h30	KL02 - Maintaining stem cell potency for cellular therapies <u>Simon Cool</u> (<i>Institute of Medical Biology, Agency for Science, Technology and Research (A*STAR), Singapore</i>)
16h30-16h45	Coffee Break / Poster Session
	Short Oral Presentations I Chairs: Simon Cool Abhay Pandit
16h45-17h00	S001 - Identification of age-altered mechanosensitive targets to enhance vascularisation and bone regeneration <u>A. Gonzalez-Vazquez</u> ^{1,2,3} S. Barreto ^{1,2,3} A.R. Cameron ^{1,2,3} D. Murray ⁴ F.J. O'Brien ^{1,2,3} ¹ Tissue Engineering Research Group, Department of Anatomy, Royal College of Surgeons in Ireland (RCSI)
17h00-17h15	S002 - Biophysical cues modulate the cross-talk between mesenchymal stem cells (mscs) and macrophages <u>R. Sridharan</u> ^{1,2,3} , A. R. Cameron ^{1,2,3} , D. J. Kelly ^{1,2,3} , F.J.O'Brien ^{1,2,3} ¹ Tissue Engineering Research Group, Royal College of Surgeons in Ireland (RCSI)
17h15-17h30	S003 - Development of a microfluidic device to study liver specific functions and drug toxicity <u>B. Corrado</u> ^{1,2,3} V. de Gregorio ¹ ,G. Imparato ¹ ,F. Urciuolo ¹ , C. Attanasio ¹ A. Garziano ³ and P. A. Netti ^{1,2,3} ¹ Center for Advanced Biomaterials for Healthcare@CRIB, Istituto Italiano di Tecnologia(IIT)
	Session III Chair: Tatsuya Shimizu
17h30-18h30	KL03 - Digitizing the interface between cells and biomaterials <u>Jan de Boer</u> (<i>Laboratory of Cell Biology-inspired Tissue Engineering, MerIn Institute, Maastricht University, NL</i>)
20h00/...	TERM STEM DINNER

Day 2 Friday, October 28	
	Session IV Chairs: Rui L. Reis Jan de Boer
09.00-10h00	KL04 - Regenerative medicine: A new silk road <u>Subhas C. Kundu</u> (^{3B's Research Group, University of Minho, Guimarães, Portugal; Department of Biotechnology, Indian Institute of Technology, Kharagpur, India})
10.00-11h00	KL05 - Pairing biomaterials with vintage bones – age matters <u>Liisa Kuhn</u> (^{President Society For Biomaterials, University of Connecticut Health Center, USA})
11h00-11h15	Coffee Break / Poster Session
	Short Oral Presentations II Chairs: Julie Fradette Mariana T. Cerqueira
11h15-11h30	S004 - An experimental and computational investigation of stiffness directed stem cell differentiation in 3d macro-porous hydrogels <u>M. G. Haugh</u> ^{1,2} T. J. Vaughan ³ L. M. McNamara ³ F. J. O'Brien ² S. C. Heilshorn ¹ ^{1Materials Science and Engineering, Stanford University}
11h30-11h45	S005 - Effect of platelet lysate membranes on tendon-derived cells: a potential patient-derived patch for tendon repair <u>R. Costa-Almeida</u> , ^{1,2} A. R. Franco, ^{1,2} I. B. Leonor, ^{1,2} P. S. Babo, ^{1,2} R. L. Reis, ^{1,2} M. E. Gomes, ^{1,2} ^{13B's Research Group, University of Minho, Guimarães, Portugal}
11h45-12h00	S006 - Effect of bcaas plus glutamine over myogenic satellite cells behaviour of skeletal muscle atrophy induced by immobilization <u>P. Tavares</u> ^{1,2} , E. Ribeiro ^{1,2} , V. H. Pinheiro ³ , J. Martins ³ , S. Simões ³ , I. Ferreira ⁴ , A. F. Ambrósio ² , C.A. Fontes Ribeiro ^{1,2,1} ^{Faculty of Sport Sciences and Physical Education, University of Coimbra}
12h00-12h15	S007 – 3BSCOP: 3d bioencapsulated hydrogels constructs for organ printing. A simple and alternate way of using perfusion based layer-by-layer technique for organ printing <u>P. Sher</u> ^{1,2} , N.M.Neves ^{1,2} , R.L.Reis ^{1,2} ^{13B's Research Group, University of Minho, Guimarães, Portugal}
12h15-12h30	S008 - Coating of gold nanoparticles with natural polymers for imaging and regenerative purposes <u>H. Ferreira</u> ^{1,2} , A. Martins ^{1,2} , M. L. Alves da Silva ^{1,2} , S. Amorim ^{1,2} , R. A. Pires ^{1,2} , R. L. Reis ^{1,2} , N. M. Neves ^{1,2} ^{13B's Research Group, University of Minho, Guimarães, Portugal}
12h30-14h30	Lunch (Café-Concerto)
	Session V Chair: Marjiana Tomic-Canic
14h30-15h30	KL06 - Biological-basis for Designing Biomaterials for the Injured and Degenerated Host <u>Abhay Pandit</u> (^{Centre for Research in Medical Devices (CÚRAM), National University of Ireland Galway, Ireland})
	Short Oral Presentations III Chairs: Subhas C. Kundu Rogério P. Pirraco
15h30-15h45	S009 - Supramolecular hydrogels with tuned mechanical properties for tissue engineering <u>A. Brito</u> ^{1,2} , D. S. Costa ^{1,2} , R. Novoa-Carballal ^{1,2} , R. L. Reis ^{1,2} , R. A. Pires ^{1,2} and I. Pashkuleva ^{1,2} ^{13B's Research Group, University of Minho, Guimarães, Portugal}
15h45-16h00	S010 - A hyaluronic acid-based nerve guidance conduit for peripheral nerve repair <u>W. Lackington</u> ¹ , T.Alekseeva ¹ , A. Ryan ¹ , A. Hibbitts ¹ , P. Roche ¹ , A. Matsiko ¹ and F. J. O'Brien ¹ ^{1Tissue Engineering Research Group, Department of Anatomy, Royal College of Surgeons in Ireland Advanced Materials and BioEngineering Research, and Trinity Centre for BioEngineering, Trinity College Dublin}
16h00-16h15	S011 - Intervertebral disc scaffolds: how to be patient-specific? T. Oner ^{1,2} , I. F. Cengiz ^{1,2} , M. Pitikakis ³ , L. Cesario ³ , P. Parascandolo ³ , L. Vosilla ³ , G. Viano ³ , J. M. Oliveira ^{1,2} , R. L. Reis ^{1,2} , and J. Silva-Correia ^{1,2} ^{13B's Research Group, University of Minho, Guimarães, Portugal}
16h15-16h30	Coffee Break / Poster Session

	WORKSHOP NanoTech4ALS Chairs: Rui L. Reis J. M. Oliveira
16.30-16.45	WKL01 - Global replacement of glia as a therapeutic strategy for ALS <u>Piotr Walczak</u> (<i>Johns Hopkins University, USA</i>)
16.45-17.00	WKL02 - Hydrogel labeling and imaging for intrathecal stem cell delivery— needs and methods <u>Mirosław Janowski</u> (<i>Johns Hopkins University, USA</i>)
17.00-17.15	WKL03 - Self-gelling alginate system <u>Henriette E. M. Sætrang</u> (<i>NovaMatrix, FMC Health and Nutrition, Norway</i>)
17.15-17.30	WKL04 - Regenerative engineering: complex musculoskeletal tissue regeneration <u>J. M. Oliveira</u> and R. L. Reis (<i>3B's Research Group, University of Minho, Portugal</i>)
17.30-17.40	WO01 - Traceable hydrogels for cell and drug delivery <u>S. Vieira</u> , C. Gonçalves, J. Silva-Correia, R. L. Reis, J. M. Oliveira <i>3B's Research Group, University of Minho, Portugal</i>
17.40-17.50	WO02 - Nanoparticles for cell tracking <u>M. R. Carvalho</u> , F. R. Maia, J. Silva-Correia, R. L. Reis, J. M. Oliveira <i>3B's Research Group, University of Minho, Portugal</i>
17.50-18.00	WO03 - Canine degenerative myelopathy as unique model of human amyotrophic lateral sclerosis <u>D. Golubczyk</u> , I. Malysz – Cymborska, L. Kalkowski, M. Janowski, J. Sanford, J. R. Coates, J. Wojtkiewicz, W. Maksymowicz, P. Walczak <i>Faculty of Medical Sciences, University of Warmia and Mazury, Poland</i>
18.00-18.10	WO04 - Optimization of injectable hydrogels to support survival and facilitate migration of embedded progenitor cells <u>I. Malysz – Cymborska</u> , D. Golubczyk, L. Kalkowski, M. Janowski, J. Wojtkiewicz, W. Maksymowicz, P. Walczak <i>Faculty of Medical Sciences, University of Warmia and Mazury, Poland</i>
18.10-18.20	WO05 - A variable hSOD1 copy number in immunodeficient mouse as a versatile model of amyotrophic lateral sclerosis for stem cell therapy <u>Luiza Stanaszek</u> , Malgorzata Majchrzak, Barbara Lukomska, Piotr Walczak, Mirosław Janowski <i>Mossakowski Medical Research Centre, Polish Academy of Sciences, Poland</i>
18.20-18.30	WO06 - The potential therapeutic effect of canine glial restricted precursors transplanted in demyelinated mice model <u>M. Majchrzak</u> , L. Stanaszek, J. Sanford, P. Walczak, M. Janowski, B. Lukomska <i>Mossakowski Medical Research Centre, Polish Academy of Sciences, Poland</i>
18h30-18h45	<i>Closing Remarks</i>

* All abstract's codes are in reference to the abstracts lists published in this book.