Congress Programme



8th World Congress of **Biomechanics** 8 - 12 July 2018 Dublin, Ireland

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In conjunction with

The World Council The World Council Structure of Biomechanics











Program Code	Title	Presenting	Decision	Final session	Session Time	Room
	Variability attenuation from step-by-step fluctuations to trunk kinematics of young adults					
01125	walking at different speeds	Marcus Vieira	Oral Presentation	Motor control 3	Wednesday 11th July, 09:20-10:50	Auditorium
01126	Fitts' Law assessment of weighted full body reaching	Sam Leitkam	Oral Presentation	Motor control 3	Wednesday 11th July, 09:20-10:50	Auditorium
01127	Identifying priority tasks during sport motions	Bruno Watier	Oral Presentation	Motor control 3	Wednesday 11th July, 09:20-10:50	Auditorium
01128	A method to analyze free interceptive catching movements	Marc H. E. de Lussanet	Oral Presentation	Motor control 3	Wednesday 11th July, 09:20-10:50	Auditorium
	······					
	Movement strategies to maintain sitting balance when exposed to aircraft perturbations in a					
01129	simulated environment: A preliminary kinematic study in people living with a spinal cord injury	Mathias Blandeau	Oral Presentation	Motor control 3	Wednesday 11th July, 09:20-10:50	Auditorium
	Can muscular synergies be used for an intuitive control of upper limb prostheses? – A clinical					
O1130	analysis	Alina Kettenbach	Oral Presentation	Motor control 3	Wednesday 11th July, 09:20-10:50	Auditorium
	Differences in complexity of motor control between gait patterns in children with cerebral					
01131	palsy.	Marije Goudriaan	Oral Presentation	Motor control 3	Wednesday 11th July, 09:20-10:50	Auditorium
01101	Between-hands motor discrepancy in children with hemiplegic cerebral palsy and typically	manje obdanadni	orarresentation		Weakesaay 110,500,05120 10,50	, additionally
01132	developing children	Wen-Feng Huang	Oral Presentation	Motor control 3	Wednesday 11th July, 09:20-10:50	Auditorium
01152	The bilateral components of neuromuscular adaptationof lower limbs examined by a novel	Wen reng nuang	orarresentation		weakesday Harsay, 05.20 10.50	Additorium
01133	experimental paradigm based on asymmetric cycling	Magdalena Zych	Oral Presentation	Motor control 3	Wednesday 11th July, 09:20-10:50	Auditorium
01100		inagadiena zyen	ordiffesentation			, identoritari
	Experimental investigation of the biomechanical response and the microstructure of the					
01134	ventricular myocardium	Gerhard Sommer	Invited Speaker	Cardiac mechanics and heart modelling 1	Wednesday 11th July, 09:20-10:50	Liffey B
01134	Modeling Viscoelasticity and Frequency Response in Cardiac Muscle	David Nordsletten	Invited Speaker	Cardiac mechanics and heart modelling 1	Wednesday 11th July, 09:20-10:50	Liffey B
01155	New model of the electromechanical coupling in human cardiomyocytes including mechano-	Nathalie Balakina-Vikulova, Leonid	invited opeaker		Weakesday 11(1)(1), 05:20 10:50	Lincy b
01136	electric feedbacks	Katsnelson	Oral Presentation	Cardiac mechanics and heart modelling 1	Wednesday 11th July, 09:20-10:50	Liffey B
01130	Modeling the impact of microscale heterogeneity on macroscopic myocardial function	Alex Clark	Oral Presentation	Cardiac mechanics and heart modelling 1	Wednesday 11th July, 09:20-10:50	Liffey B
01157	Numerical modeling of the electromechanical activity of the left ventricle with inclusion of the	Alex clark	orarresentation		Weakesday 11(1)(1), 05:20 10:50	Lincy b
01138	Purkinje network	Christian Vergara	Oral Presentation	Cardiac mechanics and heart modelling 1	Wednesday 11th July, 09:20-10:50	Liffey B
01158	The role of myocardium compressibility in organ-level simulations of actively contracting	Christian Vergara	Oral Fresentation	Cardiac mechanics and near timodening 1	Wednesday 11(1)diy, 05.20-10.50	Liney D
01139	healthy and infarcted hearts	Joao S. Soares	Oral Presentation	Cardiac mechanics and heart modelling 1	Wednesday 11th July, 09:20-10:50	Liffey B
01133	Regional strain analysis of the right ovine ventricle based on fiduciary markers	Manuel Rausch	Oral Presentation	Cardiac mechanics and heart modelling 1	Wednesday 11th July, 09:20-10:50	Liffey B
01140	Regional strain analysis of the right ovine ventricle based on hudclary markers	Manuel Rausch	Oral Presentation	The role of multiscale subject-specific models in	wednesday 1101 July, 05.20-10.30	Ешеув
	Real-time multiscale computational models for mechanobiological-targeted training of			the planning and monitoring of rehabilitation		
01141	musculoskeletal tissues	David Lloyd	Invited Speaker	programs	Wednesday 11th July, 09:20-10:50	Liffey Hall 1
01141		Bavia Eloya	Invited Speaker	programs		Lincy null 1
				The role of multiscale subject-specific models in		
				the planning and monitoring of rehabilitation		
01142	New clinical perspectives for MRI based patient-specific musculo skeletal models	Claudia Mazzà	Invited Speaker	programs	Wednesday 11th July, 09:20-10:50	Liffey Hall 1
01142	New clinical perspectives for third based patient specific mascalo skeletal models		invited opeaker	The role of multiscale subject-specific models in	Weakesday 11(1)(1), 05:20 10:50	Lincy flair 1
	Template based computational modeling of the knee joint as a clinical tool to predict			the planning and monitoring of rehabilitation		
01143	progression of osteoarthritis	Mika E. Mononen	Oral Presentation	programs	Wednesday 11th July, 09:20-10:50	Liffey Hall 1
01145	progression of osceoarchitics	WIKA L. WOHOHEH	Oral Fresentation	The role of multiscale subject-specific models in	Wednesday 11(1)diy, 05.20-10.50	Liney Hall 1
01144	Cubicat enceific geometry and leading patterns offect costs hules contact processed during goit	Mariaka Wassaling	Oral Procentation	the planning and monitoring of rehabilitation	Wednesday 11th July 00-20 10-50	Liffer Hall 1
01144	Subject-specific geometry and loading patterns affect acetabular contact pressure during gait	Mariska Wesseling	Oral Presentation	programs	Wednesday 11th July, 09:20-10:50	Liffey Hall 1
	Can the Hamstrings Components for the ACID Insights from Stackastic Neurophysics			The role of multiscale subject-specific models in the planning and monitoring of robabilitation		
01145	Can the Hamstrings Compensate for the ACL? Insights from Stochastic Neuromusculoskeletal	Colin Smith	Oral Bracantation	the planning and monitoring of rehabilitation	Wednesday 11th July 00-20 10-50	Lifford Hall 1
01145	Simulation	Colin Smith	Oral Presentation	programs	Wednesday 11th July, 09:20-10:50	Liffey Hall 1
	A multi-scale framework for the prevention of plantar ulcers in diabetic subjects: a			The role of multiscale subject-specific models in		
	multidisciplinary approach combining gait analysis, musculoskeletal and finite element foot	7	0 I.D. I.V.	the planning and monitoring of rehabilitation		
01146	modeling.	Zimi Sawacha	Oral Presentation	programs	Wednesday 11th July, 09:20-10:50	Liffey Hall 1
				The role of multiscale subject-specific models in		
				the planning and monitoring of rehabilitation		
01147	EMG-based validation of musculoskeletal models considering crosstalk	Maximilian Aurbach	Oral Presentation	programs	Wednesday 11th July, 09:20-10:50	Liffey Hall 1
						
01148	Echo-Derived Biomechanics to Stratify Thoracic Aortic Aneurysm Patients	Kevin Lachapelle	Invited Speaker	Thoracic aortic aneurysms and aortic dissection 1	weanesday 11th July, 09:20-10:50	Liffey Hall 2
	Computational studies of hemodynamic performance of thoracic endograftsComputational					
01149	studies of hemodynamic performance of thoracic endografts	C Alberto Figueroa	Invited Speaker	Thoracic aortic aneurysms and aortic dissection 1	Wednesday 11th July, 09:20-10:50	Liffey Hall 2
01150	Development of a biomechanics-based risk potential for aortic dissection	David Vorp	Oral Presentation	Thoracic aortic aneurysms and aortic dissection 1	Wednesday 11th July, 09:20-10:50	Liffey Hall 2
01151	Layer- and region-specific mechanical properties of Ascending Thoracic Aortic Aneurysms	Taisiya Sigaeva	Oral Presentation	Thoracic aortic aneurysms and aortic dissection 1	Wednesday 11th July, 09:20-10:50	Liffey Hall 2

01152	Patient-Specific in vitro Assessment of Aortic Dissection False Lumen Hemodyanmics A statistical approach to associate micromechanical properties of idiopathic degenerative	Sylvana García-Rodríguez	Oral Presentation	Thoracic aortic aneurysms and aortic dissection 1	Wednesday 11th July, 09:20-10:50	Liffey Hall 2
01153	aneurysms with biochemical and clinical characteristics	Ya Hua Chim	Oral Presentation	Thoracic aortic aneurysms and aortic dissection 1	Wednesday 11th July, 09:20-10:50	Liffey Hall 2
01154	Predicting the Outcome in Type B Aortic Dissection: New Insights from the ADSORB Trial	Chloe Armour	Oral Presentation	Thoracic aortic aneurysms and aortic dissection 1	Wednesday 11th July, 09:20-10:50	Liffey Hall 2
	An inter-population morphometric study between African and European glenohumeral			Biomedical engineering research and education		
01155	articulating surfaces.	Sudesh Sivarasu	Invited Speaker	in Africa	Wednesday 11th July, 09:20-10:50	Liffey MR1
				Biomedical engineering research and education		
01156	Affordable Polymeric Transcatheter Heart Valves for LMICs	Deon Bezuidenhout	Invited Speaker	in Africa	Wednesday 11th July, 09:20-10:50	Liffey MR1
	Evaluation of Reynolds, viscous and turbulent viscous shear stress obtained from particle			Biomedical engineering research and education		
01157	imaging velocimetry in the design of low cost polyurethane valves	Kyle Davis	Oral Presentation	in Africa	Wednesday 11th July, 09:20-10:50	Liffey MR1
				Biomedical engineering research and education		- /
01158	Biomechanics education and research initiative in Sudan: UMST initiative roadmap	Mazin Sirry	Oral Presentation	in Africa	Wednesday 11th July, 09:20-10:50	Liffey MR1
01158		Widzin Sirry	Orar resentation		weathesday filling, 05.20-10.50	Liney With
	Validation of computational model of thrombosis in cerebral aneurysms following flow diverter			Biomedical engineering research and education		
01159	placement	Malebogo Ngoepe	Oral Presentation	in Africa	Wednesday 11th July, 09:20-10:50	Liffey MR1
				Biomedical engineering research and education		
01160	International Academic Partnership for Diverse Bioengineering Design Education	William Richardson	Oral Presentation	in Africa	Wednesday 11th July, 09:20-10:50	Liffey MR1
				Biomedical engineering research and education		
01161	A computational analysis of the effect of femoral rotation on patellofemoral biomechanics	Jacobus Muller	Oral Presentation	in Africa	Wednesday 11th July, 09:20-10:50	Liffey MR1
				Dual-task, concussion, and sports injuries:		
	Dual-task, Concussion, and Sports Injuries: Connecting Mind and Movement to Better			Connecting mind and movement to better		
		B : 111 II		5		
01162	Understand Sports Injuries	David Howell	Invited Speaker	understand sports injuries	Wednesday 11th July, 09:20-10:50	Liffey MR2
				Dual-task, concussion, and sports injuries:		
	Dual-task, concussion, and sports injuries: Connecting mind and movement to better			Connecting mind and movement to better		
01163	understand sports injuries	Robert Lynall	Invited Speaker	understand sports injuries	Wednesday 11th July, 09:20-10:50	Liffey MR2
				Dual-task, concussion, and sports injuries:		
	Detecting acute and long-term effects of concussion: dual-task gait balance control vs.			Connecting mind and movement to better		
01164	computerized neurocognitive test	Li-Shan Chou	Oral Presentation	understand sports injuries	Wednesday 11th July, 09:20-10:50	Liffey MR2
01101	compatencea near ocognitive test		ordi Tresentation	Dual-task, concussion, and sports injuries:	meanesady 11(1) any, 05120 10150	Liney initz
04465		B 1111 II		Connecting mind and movement to better		1.11
01165	Gait asymmetry after concussion during single-task and dual-task walking	David Howell	Oral Presentation	understand sports injuries	Wednesday 11th July, 09:20-10:50	Liffey MR2
				Dual-task, concussion, and sports injuries:		
	The effect of a subsequent cognitive task on reaction time, gait velocity, and termination time			Connecting mind and movement to better		
01166	during unplanned gait termination	Robert Lynall	Oral Presentation	understand sports injuries	Wednesday 11th July, 09:20-10:50	Liffey MR2
				Dual-task, concussion, and sports injuries:		
	Neuroplasticity of Neuromuscular Training and Injury Risk Reduction Transfer to Simulated			Connecting mind and movement to better		
01167	Sport	Dustin Grooms	Oral Presentation	understand sports injuries	Wednesday 11th July, 09:20-10:50	Liffey MR2
	Mapping 3D Mechanical Strains during Tissue Morphogenesis with a Novel Fibronectin-based					
01100		Adam Fainham	In the difference of	Conditioner and an element of the second second	Wednesday 11th July 00-20 10-50	Liff MDD
01169	Nanomechanical Biosensor	Adam Feinberg	Invited Speaker	Cardiovascular development	Wednesday 11th July, 09:20-10:50	Liffey MR3
01170	Mechanoregulation of heart valve morphogenesis	Jonathan Butcher	Invited Speaker	Cardiovascular development	Wednesday 11th July, 09:20-10:50	Liffey MR3
	Reduced hemodynamic loading alters structural and mechanical properties of the chick embryo					
01171	dorsal aorta	Gabriela Espinosa	Oral Presentation	Cardiovascular development	Wednesday 11th July, 09:20-10:50	Liffey MR3
01172	Cell Chirality Regulates Cardiac C-looping	Leo Wan	Oral Presentation	Cardiovascular development	Wednesday 11th July, 09:20-10:50	Liffey MR3
	Biophysical mechanisms involved in regulating cell behaviors during zebrafish heart					
01173	morphogenesis	Hélène Vignes	Oral Presentation	Cardiovascular development	Wednesday 11th July, 09:20-10:50	Liffey MR3
511/5	Quantifying endodermal strain fields during heart tube assembly in the developing chicken		2.2.1.1.65611646611			
01174		Victor Varner	Oral Presentation	Cardiovascular development	Wednesday 11th July, 09:20-10:50	Liffey MR3
011/4	embryo		Graffiesentation		weanesday 11(1)uly, 05.20-10.50	Liney Mino
		Sara McMahan, Katherine M.				
01175	Biomechanical characterizations of the neonatal porcine pulmonary artery and aorta	Copeland	Oral Presentation	Cardiovascular development	Wednesday 11th July, 09:20-10:50	Liffey MR3
01176	Biomechanics of Human Trabecular Bone: Advances and Limitations	Philippe Zysset	Invited Speaker	Bone fracture mechanics (in vitro and in vivo) 1	Wednesday 11th July, 09:20-10:50	Wicklow Hall 1
01177	Advancing matrix-sensitive techniques to assess the fracture resistance of bone	Jeffry Nyman	Invited Speaker	Bone fracture mechanics (in vitro and in vivo) 1	Wednesday 11th July, 09:20-10:50	Wicklow Hall 1
01178	Median canal diameter better predicts the fatigue life of bovine cortical bone than porosity	Lindsay Loundagin	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 1	Wednesday 11th July, 09:20-10:50	Wicklow Hall 1
	Tougher, More Fatigue Resistant, Irradiation Sterilized Cortical Bone Allograft by Collagen	-		. ,		
01179	Modification	Thomas Willett	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 1	Wednesday 11th July, 09:20-10:50	Wicklow Hall 1
01180	Non-enzymatic glycation of collagen increases micro-damage in bone after fatigue loading	Graeme Campbell	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 1 Bone fracture mechanics (in vitro and in vivo) 1	Wednesday 11th July, 09:20-10:50 Wednesday 11th July, 09:20-10:50	Wicklow Hall 1
		-				Wicklow Hall 1
01181	Small Changes in Cancellous Bone Microstructure Increase Fatigue Life 10-100 Times	Christopher Hernandez	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 1	Wednesday 11th July, 09:20-10:50	

01183	3D bioprinting of scaled-up tissues that mimic the structure, composition and biomechanics of articular cartilage Targeted genome engineering of pluripotent stem cells as a basis for self-regulating, functional	Daniel Kelly	Invited Speaker	Biomimetic implants for articular cartilage repair / regeneration Biomimetic implants for articular cartilage repair	Wednesday 11th July, 09:20-10:50	Wicklow Hall 2A
01184	engineered tissues	Farshid Guilak	Invited Speaker	/ regeneration Biomimetic implants for articular cartilage repair	Wednesday 11th July, 09:20-10:50	Wicklow Hall 2A
01185	Decorin is indispensable to cartilage biomechanical function in health and osteoarthritis Microscale compositional mapping predicts local mechanics across the interface of autologous	Lin Han	Oral Presentation	/ regeneration Biomimetic implants for articular cartilage repair	Wednesday 11th July, 09:20-10:50	Wicklow Hall 2A
01186	chordrocyte transplantation (ACT) repair Manipulation of cell cycle phase stimulates chordrogenic potential of osteoarthritic	Alexander Boys	Oral Presentation	/ regeneration Biomimetic implants for articular cartilage repair	Wednesday 11th July, 09:20-10:50	Wicklow Hall 2A
01187	chordrocytes Influence of Phosphate on Mesenchymal Stem Cell Chondrogenesis in Various	Clark Hung	Oral Presentation	/ regeneration Biomimetic implants for articular cartilage repair	Wednesday 11th July, 09:20-10:50	Wicklow Hall 2A
01188	Microenvironment Stiffness Regimes Effect of Low-Intensity Acoustic Radiation Force on Biochemical and Mechanical Properties of	Rhima Coleman	Oral Presentation	/ regeneration Biomimetic implants for articular cartilage repair	Wednesday 11th July, 09:20-10:50	Wicklow Hall 2A
01189	Articular Cartilage in Osteoarthritis Progression	Chaudhry Raza Hassan	Oral Presentation	/ regeneration	Wednesday 11th July, 09:20-10:50	Wicklow Hall 2A
01190	Biomechanics of the Skeletal Muscle Extracellular Matrix	Richard Lieber	Invited Speaker	Mechanics of passive muscle and connective tissue 1 Mechanics of passive muscle and connective	Wednesday 11th July, 09:20-10:50	Wicklow Hall 2B
01191	Composition-dependent mechanisms of multiscale tendon mechanics	Spencer Lake	Invited Speaker	tissue 1 Mechanics of passive muscle and connective	Wednesday 11th July, 09:20-10:50	Wicklow Hall 2B
01192	Passive muscle mechanical properties adapt to directly counter chronic pathology in the spine Intra- and Epimuscular Connective Tissues Are Not Just Passive Structural Elements, but	Derek Zwambag	Oral Presentation	tissue 1 Mechanics of passive muscle and connective	Wednesday 11th July, 09:20-10:50	Wicklow Hall 2B
01193	Interfere with, and Affect Muscle's Active Mechanics Microscopy and computational analyses of meso-scale structure and its role for mechanics in	Can A. Yucesoy	Oral Presentation	tissue 1 Mechanics of passive muscle and connective	Wednesday 11th July, 09:20-10:50	Wicklow Hall 2B
01194	skeletal muscle tissue	Alexander Ehret	Oral Presentation	tissue 1 Mechanics of passive muscle and connective	Wednesday 11th July, 09:20-10:50	Wicklow Hall 2B
01195	Swine vs Human: Mechanical and Histological Analysis of the Uterosacral Ligament	Adwoa Baah-Dwomoh	Oral Presentation	tissue 1 Mechanics of passive muscle and connective	Wednesday 11th July, 09:20-10:50	Wicklow Hall 2B
01196	Advanced mechanical characterization and modeling of facial soft tissues for aging studies	Marco Pensalfini	Oral Presentation	tissue 1	Wednesday 11th July, 09:20-10:50	Wicklow Hall 2B
	Nanokick: stimulation of osteogenesis by mesenchymal stem cells using a nanovibrational					
01197	bioreactor	Matthew Dalby	Invited Speaker	Multiscale biomechanics of scaffolds 1	Wednesday 11th July, 09:20-10:50	Ecocem
01198	Regenerating bone with biomimetic scaffolds in large defects Dynamic microenvironments to promote integrin and growth factor receptor signalling in cell	Hanna Isaksson	Invited Speaker	Multiscale biomechanics of scaffolds 1	Wednesday 11th July, 09:20-10:50	Ecocem
01199	engineering Design and mechanical evaluation of a 3D printed polymeric support structure for an	Manuel Salmeron-Sanchez	Oral Presentation	Multiscale biomechanics of scaffolds 1	Wednesday 11th July, 09:20-10:50	Ecocem
01200	endochondral ossification-inducing mechano-hybrid scaffold Tailoring the geometry of 3D-printed polycaprolactone scaffolds to develop biomimetic	Martina Tortorici	Oral Presentation	Multiscale biomechanics of scaffolds 1	Wednesday 11th July, 09:20-10:50	Ecocem
01201	constructs with mechanical properties comparable to articular cartilage Relationship between fatigue performance and bone tissue growth based on vivo tests and	Rossana Schipani	Oral Presentation	Multiscale biomechanics of scaffolds 1	Wednesday 11th July, 09:20-10:50	Ecocem
01202	simulation Tissue grafts versus collagen mono-domain scaffolds: Improved mechanical properties and	Ziyu Liu	Oral Presentation	Multiscale biomechanics of scaffolds 1	Wednesday 11th July, 09:20-10:50	Ecocem
01203	cytocompatibility	Héctor Capella-Monsonís	Oral Presentation	Multiscale biomechanics of scaffolds 1	Wednesday 11th July, 09:20-10:50	Ecocem
	A second second at a solicite total large estimation in a 2D winted the investments A					
01204	A novel approach to revision total knee arthroplasty using 3D printed titanium augments: A biomechanical cadaveric study.	Charles Dion	Oral Presentation	Technology innovation in modical devices 2	Wednesday 11th July 00-20 10-50	Wicklow MR1
01204 01205	biomechanical cadaveric study A New Gliding Screw Concept For Plating Of Proximal Humerus Fractures.	Charles Dion Ivan Zderic	Oral Presentation	Technology innovation in medical devices 3	Wednesday 11th July, 09:20-10:50	Wicklow MR1 Wicklow MR1
	Biomechanical testing of a 3D printed pedicle screw expansion mechanism for the osteoporotic		Oral Presentation	Technology innovation in medical devices 3	Wednesday 11th July, 09:20-10:50	
01206 01207	spine Mechanical Component Optimization, Design and Testing of a Fully Passive Prosthetic Knee Machanism	Stewart McLachlin	Oral Presentation	Technology innovation in medical devices 3	Wednesday 11th July, 09:20-10:50	Wicklow MR1
	Mechanism	Murthy Arelekatti, Nina Petelina	Oral Presentation	Technology innovation in medical devices 3	Wednesday 11th July, 09:20-10:50	Wicklow MR1
01208	Visualisation of pelvic floor muscle contractility. Do you know you are doing it right?	Poul Nielsen	Oral Presentation	Technology innovation in medical devices 3	Wednesday 11th July, 09:20-10:50	Wicklow MR1
01209	Mechanical characterization of smart implant rods for scoliosis	Fatma Kübra Erbay Elibol	Oral Presentation	Technology innovation in medical devices 3	Wednesday 11th July, 09:20-10:50	Wicklow MR1
01210	An image-analysis-based method to identify the anterior-posterior knee translation and evaluate the need to apply extraarticular tenodesis	Gil Serrancolí, Simone Perelli	Oral Presentation	Technology innovation in medical devices 3	Wednesday 11th July, 09:20-10:50	Wicklow MR1
01211	Effect of a Novel Joint Unloading Implant on Tibiofemoral Joint Force – A Three-Dimensional	Oliver Mergen	Oral Brassistation	Technology innegation is see direct density 2	Wednesday 11th July 00-20 10-50	Wiekleys MD1
01211 01212	Finite Element Analysis Novel electric stimulation systems for personalized bone implants	Oliver Morgan Marco Santos	Oral Presentation Oral Presentation	Technology innovation in medical devices 3 Technology innovation in medical devices 3	Wednesday 11th July, 09:20-10:50 Wednesday 11th July, 09:20-10:50	Wicklow MR1 Wicklow MR1
	Systematically modulating cell-cell adhesion in vivo reveals mechanisms of epithelial tissue					
01213	morphogenesis	Xun Wang	Oral Presentation	Mechanobiology and embryogenesis 2	Wednesday 11th July, 09:20-10:50	Wicklow MR2
01214	Emergent modes of apoptotic cell extrusion driven by mechanical instabilities	Horacio Lopez-Menendez	Oral Presentation	Mechanobiology and embryogenesis 2	Wednesday 11th July, 09:20-10:50	Wicklow MR2
	C pression in the second se				,	

01215	Chiral cell sliding drives left-right asymmetric organ twisting Mathematical model of cavity formation in a homogeneous cell aggregate: a possible	Mikiko Inaki	Oral Presentation	Mechanobiology and embryogenesis 2	Wednesday 11th July, 09:20-10:50	Wicklow MR2
O1216	mechanism of blastocoel formation in the early embryo development	Seergey Logvenkov	Oral Presentation	Mechanobiology and embryogenesis 2	Wednesday 11th July, 09:20-10:50	Wicklow MR2
01217	Supracellular actin cytoskeletal organization drives spontaneous folding of hydra fragments	Xinpeng Xu	Oral Presentation	Mechanobiology and embryogenesis 2	Wednesday 11th July, 09:20-10:50	Wicklow MR2
01218	How does the little brain get its folds?	Tyler Engstrom	Oral Presentation	Mechanobiology and embryogenesis 2	Wednesday 11th July, 09:20-10:50	Wicklow MR2
01220	Enhanced viscosity of the cytoplasm at the later stage of embryonic development	Fransisca A.S. van Esterik	Oral Presentation	Mechanobiology and embryogenesis 2	Wednesday 11th July, 09:20-10:50	Wicklow MR2
	Characterisation of collagen distribution in the prenatal forelimb using immunofluorescence					
01221	and high-resolution microscopy.	Saima Ahmed	Oral Presentation	Mechanobiology and embryogenesis 2	Wednesday 11th July, 09:20-10:50	Wicklow MR2
01222	Matrix-mediated Mechanical Crosstalk Between Stroma and Cancer Cells.	Hamid Mohammadi	Oral Presentation	Cell biomechanics and oncology 2	Wednesday 11th July, 09:20-10:50	Wicklow MR4
01223	The implication of solid stress in fibroblast activation and tumor-stromal interactions	Maria Kalli	Oral Presentation	Cell biomechanics and oncology 2	Wednesday 11th July, 09:20-10:50	Wicklow MR4
01225	The implication of solid scress in horobiast activation and tumor-scromal interactions		Oral Presentation	cell biomechanics and oncology 2	weatesday 11(1)uly, 03.20-10.50	
01224	Mechanobiology as a bioengineering approach to reveal the metastatic capacity of cancer cells	Daphne Weihs	Oral Presentation	Cell biomechanics and oncology 2	Wednesday 11th July, 09:20-10:50	Wicklow MR4
04005	Pancreatic Cancer Associated Fibroblasts Stiffness and Invasion Properties are Modulated by		0.10			
01225	Transforming Growth Factor-β	Andreas Stylianou	Oral Presentation	Cell biomechanics and oncology 2	Wednesday 11th July, 09:20-10:50	Wicklow MR4
01226	Podocyte biomechanics as a novel marker of chemotherapy-induced nephrotoxicity	Evren Azeloglu	Oral Presentation	Cell biomechanics and oncology 2	Wednesday 11th July, 09:20-10:50	Wicklow MR4
01227	TGF-β induced changes in breast cancer cell deformability depend on the cell invasive potential Constitutively active Ezrin acts as an actin-binding protein to promote actin fiber assembly and	Ankur Kulkarni	Oral Presentation	Cell biomechanics and oncology 2	Wednesday 11th July, 09:20-10:50	Wicklow MR4
01228	strengthen cell mechanical properties	Xiaoli Zhang	Oral Presentation	Cell biomechanics and oncology 2	Wednesday 11th July, 09:20-10:50	Wicklow MR4
01229	Intercellular Force-imbalance of Tumor Drives the Emergence of Cancer Stem Cells	Weiyi Qian	Oral Presentation	Cell biomechanics and oncology 2	Wednesday 11th July, 09:20-10:50	Wicklow MR4
01230	Mechanical strains trigger invasive behaviours in newly transformed epithelial cells	Sophie Chagnon-Lessard	Oral Presentation	Cell biomechanics and oncology 2	Wednesday 11th July, 09:20-10:50	Wicklow MR4
01200		Sophie endgrion zessard	orarresentation			
	Predicting in vivo muscle force in running guinea fowl using a Hill-type muscle model that					
01235	includes titin in active muscle contraction.	Kiisa Nishikawa	Oral Presentation	Motor control 4	Wednesday 11th July, 11:20 - 12:50	Auditorium
01236	Motor Units in Children with Cerebral Palsy Present a Disorganized Muscle State	Zachary Adams	Oral Presentation	Motor control 4	Wednesday 11th July, 11:20 - 12:50	Auditorium
	Complementing clinical decision-making with gait signatures: Identifying the effectiveness of					
01237	Deep Brain Stimulation (DBS) therapy	Deepak K Ravi, Navrag B Singh	Oral Presentation	Motor control 4	Wednesday 11th July, 11:20 - 12:50	Auditorium
	Improved coordination and reduced variability contribute to accurate overarm throwing at an	. , , , ,				
01238	early stage of learning.	Masahiro Shinya	Oral Presentation	Motor control 4	Wednesday 11th July, 11:20 - 12:50	Auditorium
01239	Modulation of ankle intrinsic stiffness with postural sway	Pouya Amiri	Oral Presentation	Motor control 4	Wednesday 11th July, 11:20 - 12:50	Auditorium
	Unifying forward and inverse models for motor control and recognition into a single neural	,-				
01240	network	Heiko Wagner	Oral Presentation	Motor control 4	Wednesday 11th July, 11:20 - 12:50	Auditorium
	Changes in mediolateral dynamic balance control during imposed gait asymmetry on a split-belt	U U				
01241	treadmill strongly depend on passive dynamics in gait	Tom Buurke	Oral Presentation	Motor control 4	Wednesday 11th July, 11:20 - 12:50	Auditorium
	Intramuscular measurement of EMG activity of the deep intrinsic foot muscles during walking					
01242	using a novel insertion technique	Natalie Collins	Oral Presentation	Motor control 4	Wednesday 11th July, 11:20 - 12:50	Auditorium
	Effects of visual feedback on spiral drawing in patients with Parkinson's disease and essential					
01243	tremor	Ping En Sun	Oral Presentation	Motor control 4	Wednesday 11th July, 11:20 - 12:50	Auditorium
	Subject-specific biventricular finite element models of healthy and failing swine hearts from					
01244	high-resolution DT-MRI	Kevin Sack	Oral Presentation	Cardiac mechanics and heart modelling 2	Wednesday 11th July, 11:20 - 12:50	Liffey B
	Generic registration-based pipeline for personalized cardiac flow simulations : application on 12					
01245	healthy cases	Alexandre This	Oral Presentation	Cardiac mechanics and heart modelling 2	Wednesday 11th July, 11:20 - 12:50	Liffey B
01246	A Biomechanical Analysis of Suture Retention in Human Atrioventricular Valve Annuli	Eric Pierce	Oral Presentation	Cardiac mechanics and heart modelling 2	Wednesday 11th July, 11:20 - 12:50	Liffey B
01247	Patient-Specific Modeling of Intraventricular Hemodynamics with Valves	Vijay Vedula	Oral Presentation	Cardiac mechanics and heart modelling 2	Wednesday 11th July, 11:20 - 12:50	Liffey B
	Patient-specific electro-mechano-fluidic models to study the impact of aortic valve disease and					
01248	coarctations upon ventricular load	Christoph M Augustin	Oral Presentation	Cardiac mechanics and heart modelling 2	Wednesday 11th July, 11:20 - 12:50	Liffey B
	Patient-Specific Finite Element Simulation of Left Ventricle Hemodynamics and Mitral Valve					
01250	Disease Based on Echocardiography	Johan Hoffman	Oral Presentation	Cardiac mechanics and heart modelling 2	Wednesday 11th July, 11:20 - 12:50	Liffey B
01251	Cardiac resynchronization therapy simulations in virtualized heart models	Baris Cansiz	Oral Presentation	Cardiac mechanics and heart modelling 2	Wednesday 11th July, 11:20 - 12:50	Liffey B
01252	Patient-specific computational modeling of cardiac biomechanics via adjoint-based data assimilation	Llanzik Fincherg	Oral Presentation	Cardias mashanias and beart medalling 2	Wednesday 11th July 11:20 12:50	Lifferr D
01252	dssimilation	Henrik Finsberg	Ural Presentation	Cardiac mechanics and heart modelling 2	Wednesday 11th July, 11:20 - 12:50	Liffey B
				Multiscale biomechanics of sport and sport		
01253	Modeling overuse injuries in sport as a mechanical fatigue phenomenon	W. Brent Edwards	Invited Speaker	injuries	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 1
01200				Multiscale biomechanics of sport and sport		
01254	Use of Shear Wave Tensiometers to Track Tendon Tissue Loads during Running	Darryl Thelen	Invited Speaker	injuries	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 1
01207	Estimation of cervical spine internal loads with the use of validated bushing elements for sport			Multiscale biomechanics of sport and sport		
01255	collisions. Application in the analysis of head impacts in rugby contact events.	Pavlos Silvestros	Oral Presentation	injuries	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 1
01200			2.0	Multiscale biomechanics of sport and sport		
01256	Surface construction alters patellar tendon strains in jumping	Colin Firminger	Oral Presentation	injuries	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 1
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01257	Multidimensional ground reaction forces and moments from wearable sensor accelerations via deep learning	William Johnson	Oral Presentation	Multiscale biomechanics of sport and sport injuries	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 1
01258	Mechanical load monitoring in sports: predicting ground reaction forces from segmental accelerations for high-intensity and dynamic tasks Predicting Cycling Injury Risk Using Individual Pedalling Parameters and Musculoskeletal	Jasper Verheul	Oral Presentation	Multiscale biomechanics of sport and sport injuries Multiscale biomechanics of sport and sport	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 1
01259	Simulation	Penny Wen	Oral Presentation	injuries	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 1
	Coupled morphological-hemodynamic computational analysis of type B aortic dissection: a					
O1260	longitudinal study	Huijuan Xu	Oral Presentation	Thoracic aortic aneurysms and aortic dissection 2	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 2
01261	Failure Properties of Human Thoracic Aortas in Relation to Their Microstructure	Selda Sherifova	Oral Presentation	Thoracic aortic aneurysms and aortic dissection 2	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 2
01262	MRI Derived Strain Imaging of the Ascending Aorta	Jessica Dakkak	Oral Presentation	Thoracic aortic aneurysms and aortic dissection 2	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 2
01263	Alterations in Smooth Muscle Cell Phenotype in a Mouse Model of Marfan Syndrome	Susan Lessner	Oral Presentation	Thoracic aortic aneurysms and aortic dissection 2	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 2
01264	Propagation of dissection in a residually-stressed, fibre-reinforced, hyperelastic artery model	Nicholas Hill	Oral Presentation	Thoracic aortic aneurysms and aortic dissection 2	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 2
01265	Mixed mode crack propagation in the aorta: anatomical factors influencing aortic dissection Experimental Investigation of Patient Specific Complex Fusiform Aortic Arch Aneurysms Treated	Brian FitzGibbon	Oral Presentation	Thoracic aortic aneurysms and aortic dissection 2	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 2
01266	with the MFM® Device Computational fluid dynamics as predictive tool of aneurysmal degeneration in the dissected	Liam Morris	Oral Presentation	Thoracic aortic aneurysms and aortic dissection 2	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 2
01267	descending thoracic aorta A combined in vivo, in vitro, in silico approach to study the patient-specific hemodynamics of	Arianna Forneris	Oral Presentation	Thoracic aortic aneurysms and aortic dissection 2	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 2
01268	a continue in vivo, in vivo, in since approach to study the patient specific hemodynamics of aortic dissection	Gaia Franzetti	Oral Presentation	Thoracic aortic aneurysms and aortic dissection 2	Wednesday 11th July, 11:20 - 12:50	Liffey Hall 2
01269	Experience of Biomedical Engineering Education in the United Arab Emirates	Tim McGloughlin	Invited Speaker	Biomedical engineering education 1	Wednesday 11th July, 11:20 - 12:50	Liffey MR1
01270	Incorporating classroom based research experiences into biomechanical engineering education	Alica Chupa	Invited Speaker	Biomedical engineering education 1	Wednesday 11th July, 11:20 - 12:50	Liffey MR1
01270	Emerging Trends and Future Landscape of Biomedical Engineering Education	James Goh	Invited Speaker	Biomedical engineering education 1	Wednesday 11th July, 11:20 - 12:50 Wednesday 11th July, 11:20 - 12:50	Liffey MR1
	Acceleration of clinical innovation: a collaboration between biomedical engineering, nursing,					
01272	and honors undergraduate students Effectiveness of a flipped classroom environment adopted in an undergraduate biomedical	Joel Berry	Oral Presentation	Biomedical engineering education 1	Wednesday 11th July, 11:20 - 12:50	Liffey MR1
O1273	engineering module – A case study in a South-East Asian cohort	Choon Hwai Yap	Oral Presentation	Biomedical engineering education 1	Wednesday 11th July, 11:20 - 12:50	Liffey MR1
01274	Differential effects of public and private funding in the medical device industry	David N. Ku	Oral Presentation	Biomedical engineering education 1	Wednesday 11th July, 11:20 - 12:50	Liffey MR1
				Advances in rehabilitation technology using		
01275	Can responses to gait perturbations be used to discriminate between older adults with and without history of falls?	Sanne Roeles	Invited Speaker		Wednesday 11th July, 11:20 - 12:50	Liffey MR2
01275	Can responses to gait perturbations be used to discriminate between older adults with and		Invited Speaker	Advances in rehabilitation technology using virtual reality and perturbations to assess and	Wednesday 11th July, 11:20 - 12:50	Liffey MR2
	Can responses to gait perturbations be used to discriminate between older adults with and without history of falls? Assessment of Dynamic Stability of the Lower Extremity Using Position Controlled Platform	Sanne Roeles		Advances in rehabilitation technology using virtual reality and perturbations to assess and train gait and balance Advances in rehabilitation technology using virtual reality and perturbations to assess and		
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01129 Outseparsies and abstem increase meeting heterogeneopy in halow, 12109-1200 Window init 1 0129 First and abstem increase meeting heterogeneopy in halow, 12109-1200 Window init 1 0129 First and abstem increase meeting heterogeneopy in halow, 12109-1200 Window init 1 0129 First and abstem increase meeting in high in the states of the states of the states and init in the states of the states and init in the states of the states the states of the states of the states of t	01290		Benedikt Helgason	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 2	Wednesday 11th July, 11:20 - 12:50	Wicklow Hall 1
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D127 Computational simulation of bone fracture healing under looking plate fination Seered Maraminia Oral Presentation Bene fracture mechanics (in vitro and in vitro) Wednesday 11th July, 11:20-12:50 Witclew Hall a 0128 A Paradgen for Using Physiological Imputs to in Vitro Models for Assessment of Carrilage Tibology Torited Speaker Carrilage tribology Wednesday 11th July, 11:20-12:50 Witclew Hall 2A 0129 Mitcle is biolitication the insights into how moments helps maintain joint biolization and health property in articular carrilage David Daris Invited Speaker Carliage tribology Wednesday 11th July, 11:20-12:50 Witclew Hall 2A 0130 In-the Taman spectroscopy as a colo for monitoring changes in carliage change in solver oparcies in an vitro porcies kees simulation and engrey for articular carliage in biology Carliage tribology Wednesday 11th July, 11:20-12:50 Witclew Hall 2A 0130 Functional performance of solvechnd aig afts in in vitro porcies kees simulation of the function in hear Danie Wagner Oral Presentation Carliage tribology Wednesday 11th July, 11:20-12:50 Witclew Hall 2A 0130 Functional performance of solvechnd aig afts in in vitro porcies kees simulation of the function in hear Beingen Mitclew Physical Carliage tribology Wednesday 11th July, 11:20-12:50 Witclew Hall 2A 0130 Functional performance of solvechnd is gative resonse? Meelsan of passise muckle and connerethe Meelsan of passise muckle and conn	01296		Martino Pani	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 2	Wednesday 11th July, 11:20 - 12:50	Wicklow Hall 1
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01312 Fatigue loading causes progressive molecular damage to collagen in tendon Jared Zitnay Oral Presentation tissue 2 Wednesday 11th July, 11:20 - 12:50 Wicklow Hall 2B 0131 abdominal wall connective tissues Laure Astruc Oral Presentation tissue 2 Wednesday 11th July, 11:20 - 12:50 Wicklow Hall 2B 0131 abdominal wall connective tissues Laure Astruc Oral Presentation tissue 2 Wednesday 11th July, 11:20 - 12:50 Wicklow Hall 2B 0131 Biphasic porcelastic fibrin fiber scaffolds for stem cell differentiation Cyclic and Confined Compression of Tissue Engineered Intervertebral Discs: a dilemma between Cyclic and Confined Compression of Tissue Engineered Intervertebral Discs: a dilemma between To 1315 Sarah Somers Oral Presentation Multiscale biomechanics of scaffolds 2 Wednesday 11th July, 11:20 - 12:50 Ecocem 01315 biological tolerance and mechanical performance Yang Liu Oral Presentation Multiscale biomechanics of scaffolds 2 Wednesday 11th July, 11:20 - 12:50 Ecocem	01311	Slack lengths of the bands of the ulnar collateral ligament: experiment & model	David Jordan	Oral Presentation	tissue 2	Wednesday 11th July, 11:20 - 12:50	Wicklow Hall 2B
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O1313 abdominal wall connective tissues Laure Astruc Oral Presentation tissue 2 Wednesday 11th July, 11:20 - 12:50 Wicklow Hall 2B 01314 Biphasic porcelastic fibrin fiber scaffolds for stem cell differentiation Cyclic and Confined Compression of Tissue Engineered Intervertebral Discs: a dilemma between 01315 Sarah Somers Oral Presentation Multiscale biomechanics of scaffolds 2 Wednesday 11th July, 11:20 - 12:50 Ecocem 01315 biological tolerance and mechanical performance Yang Liu Oral Presentation Multiscale biomechanics of scaffolds 2 Wednesday 11th July, 11:20 - 12:50 Ecocem	01312		Jared Zitnay	Oral Presentation		Wednesday 11th July, 11:20 - 12:50	Wicklow Hall 2B
O1314 Biphasic poroelastic fibrin fiber scaffolds for stem cell differentiation Sarah Somers Oral Presentation Multiscale biomechanics of scaffolds 2 Wednesday 11th July, 11:20 - 12:50 Ecocem Cyclic and Confined Compression of Tissue Engineered Intervertebral Discs: a dilemma between 01315 biological tolerance and mechanical performance Yang Liu Oral Presentation Multiscale biomechanics of scaffolds 2 Wednesday 11th July, 11:20 - 12:50 Ecocem	01313		Laure Astruc	Oral Presentation		Wednesday 11th July, 11:20 - 12:50	Wicklow Hall 2B
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01315 biological tolerance and mechanical performance Yang Liu Oral Presentation Multiscale biomechanics of scaffolds 2 Wednesday 11th July, 11:20 - 12:50 Ecocem	01314	Biphasic poroelastic fibrin fiber scaffolds for stem cell differentiation	Sarah Somers	Oral Presentation	Multiscale biomechanics of scaffolds 2	Wednesday 11th July, 11:20 - 12:50	Ecocem
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	01010	meenanes and ussue growth for beam-based 5D printed scalibility	Loui Lgan	Grannesentation	Wardstale Diomechanics Of Statiolus 2	**Concoudy 1101 July, 11.20 - 12.30	LUUCEIII

	Numerical and experimental analysis of cell migration in three dimensional microfluidic chip in					
01317	presence of acoustic wave	Arindam Bit	Oral Presentation	Multiscale biomechanics of scaffolds 2	Wednesday 11th July, 11:20 - 12:50	Ecocem
01318	Design of 3D-printed patient-specific porous titanium scaffolds for total mandibular reconstruction: a multiscale finite element study	Kaushik Mukherjee	Oral Presentation	Multiscale biomechanics of scaffolds 2	Wednesday 11th July, 11:20 - 12:50	Ecocem
01319	Characterisation of novel powder formulation for 3D printing of composite ceramic – polymer scaffolds for bone regeneration	Nicholas Dunne	Oral Presentation	Multiscale biomechanics of scaffolds 2	Wednesday 11th July, 11:20 - 12:50	Ecocem
01321	New generation 4D scaffold for tissue regeneration	Yanfei Lu, Tomasz Lekszycki	Oral Presentation	Multiscale biomechanics of scaffolds 2	Wednesday 11th July, 11:20 - 12:50	Ecocem
01322	Length scale effects on poroviscoelasticity of hydrogels	Yin Chang	Oral Presentation	Multiscale biomechanics of scaffolds 2	Wednesday 11th July, 11:20 - 12:50	Ecocem
01323	Evaluation of the Effects of Modified Orthopedic Drill Bits on Pilot Hole Drilling Energy, Orthopedic Screw Insertion Energy, and Orthopedic Screw Axial Pull-Out Strength	Scott Baskerville	Oral Presentation	Technology innovation in medical devices 4	Wednesday 11th July, 11:20 - 12:50	Wicklow MR1
01324	Subsidence risk of vertebral body replacements using anew biomechanical in vitro test method	Laura Zengerle	Oral Presentation	Technology innovation in medical devices 4	Wednesday 11th July, 11:20 - 12:50	Wicklow MR1
01324	A novel image-based creatinine monitor for kidney function disease	Alessandro Bellofiore	Oral Presentation	Technology innovation in medical devices 4	Wednesday 11th July, 11:20 - 12:50 Wednesday 11th July, 11:20 - 12:50	Wicklow MR1
01326	Dependence of Thermal Conductivity of Bovine Bone with Volume Fraction and Fabric	Michael Indermaur	Oral Presentation	Technology innovation in medical devices 4	Wednesday 11th July, 11:20 - 12:50 Wednesday 11th July, 11:20 - 12:50	Wicklow MR1
01327	Development and Image Testing of a MRI-Compatible Stereotatic Robot for Neurosurgery	Ming-Shaung Ju	Oral Presentation	Technology innovation in medical devices 4	Wednesday 11th July, 11:20 - 12:50 Wednesday 11th July, 11:20 - 12:50	Wicklow MR1
01327	Surface-to-surface interaction at the joints of the ankle complex and foot in varus and valgus	White Shading Ju	orannesentation	reemology movation in medical devices 4	weakesday Intributy, 11.20 12.50	
01328	deformities	Maui Jepsen	Oral Presentation	Technology innovation in medical devices 4	Wednesday 11th July, 11:20 - 12:50	Wicklow MR1
O1329	Fabrication of 3D Printed Microneedle Electrodes for Use in EMG	Kevin Krieger	Oral Presentation	Technology innovation in medical devices 4	Wednesday 11th July, 11:20 - 12:50	Wicklow MR1
01330	Design and Characterization of a Novel In-Vivo Laparoscope Cleaning Device	Christopher Idelson	Oral Presentation	Technology innovation in medical devices 4	Wednesday 11th July, 11:20 - 12:50	Wicklow MR1
	Effect of Matrix Substrate Composition on Neuronal Regeneration in Microporous Nerve					
01331	Guidance Conduits	Alan Hibbitts	Oral Presentation	Technology innovation in medical devices 4	Wednesday 11th July, 11:20 - 12:50	Wicklow MR1
	Invasion-Mutation: DNA Damage Portends Genome Variation in Cancer Cells after Pore					
01332	Migration	Dennis Discher	Invited Speaker	Mechanogenetics for cell therapy	Wednesday 11th July, 11:20 - 12:50	Wicklow MR2
	Outside-in/inside-out signaling loop of the TCR mechanosensor induced by negative selecting					
01333	ligands in the thymus	Cheng Zhu	Invited Speaker	Mechanogenetics for cell therapy	Wednesday 11th July, 11:20 - 12:50	Wicklow MR2
01334	Mechanical activation of hPiezo1 and mPiezo1 using high frequency ultrasound	Sangpil Yoon	Oral Presentation	Mechanogenetics for cell therapy	Wednesday 11th July, 11:20 - 12:50	Wicklow MR2
	The critical roles of long-range mechanical force and molecular biophysical property in cell	0.		5 I.		
01335	signaling	Mingxing Ouyang	Oral Presentation	Mechanogenetics for cell therapy	Wednesday 11th July, 11:20 - 12:50	Wicklow MR2
O1336	Mechano-biological coupling of multi-typed hepatic cells	Mian Long	Oral Presentation	Mechanogenetics for cell therapy	Wednesday 11th July, 11:20 - 12:50	Wicklow MR2
	Engineered proteins with sensing and activating modules for automated reprogramming of					
01337	cellular functions	Jie Sun	Oral Presentation	Mechanogenetics for cell therapy	Wednesday 11th July, 11:20 - 12:50	Wicklow MR2
01228	Osteocyte Alteration in a Combined OVX and Concurrent Mechanical Disuse Rat Model, and	Yi-Xian Qin	Oral Presentation	Machanaganatics for call thereasy	Wednesday 11th July 11:20 12:50	Wicklow MR2
01338	Effects of Mechanobiology and Sclerostin Antibody	H-Xian Qin	Oral Presentation	Mechanogenetics for cell therapy	Wednesday 11th July, 11:20 - 12:50	WICKIOW WRZ
01339	Dose-dependent Effects of Irisin on Osteoblast Proliferation and Differentiation	Zhang Yuwei	Invited Speaker	Cell interaction with microenvironment 1	Wednesday 11th July, 11:20 - 12:50	Wicklow MR4
	Dynamic filopodial traction forces induce fast extracellular fibrous matrix remodeling that can	Andrea Malandrino, Roger D				
01340	be predicted with viscoplasticity	Kamm	Invited Speaker	Cell interaction with microenvironment 1	Wednesday 11th July, 11:20 - 12:50	Wicklow MR4
01341	Quantification of the collectivity of cell polarization and arrangement on patterned substrate	Baohua Ji	Oral Presentation	Cell interaction with microenvironment 1	Wednesday 11th July, 11:20 - 12:50	Wicklow MR4
01342	Contact guidance of single cells on adhesive lines	Hamsini Suresh	Oral Presentation	Cell interaction with microenvironment 1	Wednesday 11th July, 11:20 - 12:50	Wicklow MR4
01343	Epithelial-mesenchymal-transition of cells in confined and defective microenvironments	Amit Pathak	Oral Presentation	Cell interaction with microenvironment 1	Wednesday 11th July, 11:20 - 12:50	Wicklow MR4
01344	Fibrosis Mechanobiology and Its Therapeutic Implications in Cardiovascular Disease Nonlinear elasticity of biological fibrous networks facilitates efficient intercellular mechaical	Guoyou Huang	Oral Presentation	Cell interaction with microenvironment 1	Wednesday 11th July, 11:20 - 12:50	Wicklow MR4
01345	signalling	Ayelet Lesman	Oral Presentation	Cell interaction with microenvironment 1	Wednesday 11th July, 11:20 - 12:50	Wicklow MR4
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01350	Movement Coordination after Unilateral Transtibial Amputation	Anne Silverman	Invited Speaker	Amputee biomechanics 1	Wednesday 11th July, 15:10 -16:40	Auditorium
01351	Robust control of active upper limb prostheses by real-time neuromusculoskeletal modeling	Dario Farina	Invited Speaker	Amputee biomechanics 1	Wednesday 11th July, 15:10 -16:40	Auditorium
01352	In vitro assessment of a Low Stiffness Implant for Transfemoral Amputees	Spencer C Barnes	Oral Presentation	Amputee biomechanics 1	Wednesday 11th July, 15:10 -16:40	Auditorium
01252	Limb loading is associated with underlying movement patterns during a step-descent in	Careb Maudu	Oral Procentation	Amputos hismoshanias 1	Wednesday 11th July 15:10, 16:40	Auditorium
01353	transtibial amputees Relationships among trunk, polyic motion, hip strength, and know joint moments during gait	Sarah Moudy	Oral Presentation	Amputee biomechanics 1	Wednesday 11th July, 15:10 -16:40	Auditorium
01354	Relationships among trunk-pelvic motion, hip strength, and knee joint moments during gait among persons with lower limb loss	Courtney M. Butowicz	Oral Presentation	Amputee biomechanics 1	Wednesday 11th July, 15:10 -16:40	Auditorium
01004	Comprehensive evaluation of markers of knee joint health in the intact limb of individuals	country in butowicz	oral resentation	inpace boncentines i		, la al contain
01355	following traumatic unilateral lower limb-loss	Rebecca Krupenevich	Oral Presentation	Amputee biomechanics 1	Wednesday 11th July, 15:10 -16:40	Auditorium
01356	Applications of amputee specific computational model	David Henson	Oral Presentation	Amputee biomechanics 1	Wednesday 11th July, 15:10 -16:40	Auditorium
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01358	Designing better post-infarction scar	Jeffrey Holmes	Invited Speaker	Cardiac regeneration and healing	Wednesday 11th July, 15:10 -16:40	Liffey B
	A bioresorbable carrier and passive stabilization device to improve heart function post-					
01359	myocardial infarction	Eimear Dolan*	Oral Presentation	Cardiac regeneration and healing	Wednesday 11th July, 15:10 -16:40	Liffey B

NUM constraintsender the second sec	01360	How hydrogel injection affects local myocardium behavior under generalized 3D loading Therepi: an implantable system enabling targeted cardiac therapy with a replenishable,	David Li	Oral Presentation	Cardiac regeneration and healing	Wednesday 11th July, 15:10 -16:40	Liffey B
 Balan speak and a star bar bar bar bar bar bar bar bar bar b	01361	epicardial reservoir.	Ellen Roche	Oral Presentation	Cardiac regeneration and healing	Wednesday 11th July, 15:10 -16:40	Liffey B
1015calling capture of solution of the solution of th	01362	apical resection model	Katherine M. Copeland	Oral Presentation	Cardiac regeneration and healing	Wednesday 11th July, 15:10 -16:40	Liffey B
01505Ronking hunder space frame in kensch meter section frame in kensch meter section in kensch meter sectin in kensch meter	01363		Miguel Castilho	Oral Presentation	Cardiac regeneration and healing	Wednesday 11th July, 15:10 -16:40	Liffey B
01505Ronking hunder space frame in kensch meter section frame in kensch meter section in kensch meter sectin in kensch meter	01364	Research into running injuries	Tim Derrick	Invited Speaker	Running Injuries 1	Wednesday 11th July, 15:10 -16:40	Liffey Hall 1
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01100Rein pure sectoredMethod PullOur PresentationNummer pune 1Weekeday 1110 (b), 520 - 560Uffy uff 10138Court PresentationCourt PresentationNummer pune 1Weekeday 1110 (b), 520 - 560Uffy uff 10139Effect of Annie Buerds of The Result of The Resu	01366	· · · · · ·	Laura-Anne Furlong	Oral Presentation	Running Injuries 1	Wednesday 11th July, 15:10 -16:40	Liffey Hall 1
Disk Non-convertiging Non-c	01367	leg injuries	Peter Raffalt	Oral Presentation	Running Injuries 1	Wednesday 11th July, 15:10 -16:40	Liffey Hall 1
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01370Running BiorechanicsMyon Running MinOral PresentationRunning Injuries 1Wendnesdow 11th July, 15:10-16:40Uffer HallPredicting growth and rusbure of abdominal actic anterpress Mit have we sharen't modeling of a database of prime sharen of prime sharen't modeling of a database of prime sharen of prime sharen of prime sharen of prime sharen't modeling of prime sharen of prime sharen of prime shar	O1369		Jocelyn Hafer	Oral Presentation	Running Injuries 1	Wednesday 11th July, 15:10 -16:40	Liffey Hall 1
Producting growth and rupture of absommal acric aneuryms; Whith have we learn from retrospective clinical studies based on finde element modeling of wall stress and sterry? App Ray No Ray And Dagherry Invited Speaker Abdormal acric aneuryms 1 Wednesday 11h July, 15: 0: 16:40 Ulfery Hal 2 Ulfery Hal 2 0127 arearypects the role of acric biomechanics arearypects. The role of acric biomechanics. The diamong acric aneurymes 1 Wednesday 11h July, 15: 10: 16:40 Ulfery Hal 2 0137 The role of rousser emodeling in mechanics and pathogenesis of adominal acric aneurymes 1 Wednesday 11h July, 15: 10: 46:40 Ulfery Hal 2 0137 Dispectification acric aneurymes 1 Wednesday 11h July, 15: 10: 46:40 Ulfery Hal 2 0137 Dispectification acric aneurymes 1 Wednesday 11h July, 15: 10: 46:40 Ulfery Hal 2 0137 Dispectification acric aneurymes 1 Wednesday 11h July, 15: 10: 46:40 Ulfery Hal 2 0137 Dispectification acric aneurymes 1 Wednesday 11h July, 15: 10: 46:40 Ulfery Hal 2 0138 Read Coal Presentation Addomnal acric aneurymes 1 Wednesday 11h July, 15: 10: 46:40 Ulfery Hal 2 0139 Design a a Pacture of SWE discincis transmitting of Careery retry for the role	01370		Hyun Kyung Kim	Oral Presentation	Running Injuries 1	Wednesday 11th July, 15:10 -16:40	Liffey Hall 1
1312 1322 1323retroperime cincipations based on finite element modeling of wall stress and strength 1334 Min Daugher the basis of a neurophical location," Mined Speaker Mined Speaker 							·
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0137neuryam: the role of actic biomechanicsFam TachetOrd PecentationAdominal aortic aneuryam 1Weinedyu 1101 July, 15:10:4.50Uffey Hal20137The role of tissue re-modeling in mechanics and pathogenesis of adominal aortic aneuryams for Clinical DecemberAn NastrawakaOral PecentationAdominal aortic aneuryams 1Weinedyu 1101 July, 15:10:4.50Uffey Hal20137SupportOral PecentationAdominal aortic aneuryams 1Weinedyu 1101 July, 15:10:4.50Uffey Hal20137The mode Source of Machinal Aortic Aneuryams for Clinical DecemberOral PecentationAdominal aortic aneuryams 1Weinedyu 1101 July, 15:10:4.50Uffey Hal20137The mode Source of Machinal Aortic Aneuryams 1Weinedyu 1101 July, 15:10:4.50Uffey Hal2Uffey Hal20138Construct Clinical Machinal Aortic Aneuryams 1Weinedyu 1101 July, 15:10:4.50Uffey Hal20139Diseign as 6 facture of Mac Clinical Machinal Aortic Aneuryams 1Weinedyu 1101 July, 15:10:4.50Uffey Mat0139Diseign as 6 facture of Mac Clinical Engineering ducation 2 (fig MatMina Clinical Machinal Aortic Aneuryams 1Weinedyu 1101 July, 15:10:4.50Uffey Mat0139Diseign and 1Mina Clinical Machinal Aortic Aneuryams 1Weinedyu 1101 July, 15:10:4.50Uffey Mat0139Diseign and 1Mina Clinical Machinal Aortic Aneuryams 1Weinedyu 1101 July, 15:10:4.50Uffey Mat0139Diseign and 1Mina Clinical Machinal Aortic Aneuryams 1Weinedyu 1101 July, 15:10:4.50Uffey Mat0139Diseign and 1Mina Clinical Machinal Aortic Ane	01372		Alan Daugherty	Invited Speaker	Abdominal aortic aneurysms 1	Wednesday 11th July, 15:10 -16:40	Liffey Hall 2
01374 The role of tissue re-modelling in mechanics and pathogenesis of abdominal aortic aneurysms for Clinical Decision RUTrasounds based Biomechanical Modelling of Abdominal Aortic Aneurysms for Clinical Decision RUTrasounds based Biomechanical Modelling of Abdominal Aortic Aneurysms for Clinical Decision RUTrasounds based Biomechanical Modelling of Abdominal Aortic Aneurysms for Clinical Decision RUTrasounds based Biomechanical Modelling of Abdominal Aortic Aneurysms for Clinical Decision RUTrasounds based Biomechanical Addominal Aortic Aneurysms for Clinical Decision RUTrasounds based RUTrasounds and RUTrasounds RUTrasounds RUTrasounds RUTrasounds RUTrasounds RUTrasounds RUTra	01373		Bram Trachet	Oral Presentation	Abdominal aortic aneurysms 1	Wednesday 11th July, 15:10 -16:40	Liffey Hall 2
Ultrasund based biomechanical Modeling of Abdominal Aortic Aneurynens for Clinical Decision Number of Clinical Aortic Aneurynens (Clinical Decision) 01375 Sporle Modernal Aortic Aneurynens (Clinical Decision) Sungik Bask Oral Presentation Abdominal Aortic Aneurynens 1 Wednesday 11th July, 15:0-16:40 Ulfrey Hal 2 01375 Swingik Bask Oral Presentation Abdominal Aortic Aneurynens 1 Wednesday 11th July, 15:0-16:40 Ulfrey Hal 2 01375 Swingik Bask Oral Presentation Abdominal Aortic Aneurynens 1 Wednesday 11th July, 15:0-16:40 Ulfrey Hal 2 01375 Swingik Bask Oral Presentation Abdominal Aortic Aneurynens 1 Wednesday 11th July, 15:0-16:40 Ulfrey Hal 2 01375 Swingik Bask Michele Grimm Invited Speaker Biomedical engineering education 2 Wednesday 11th July, 15:0-16:40 Ulfrey Mal 1 0138 Biomedical engineering education 2 Wednesday 11th July, 15:0-16:40 Ulfrey Mal 1 0138 Biomedical engineering education 2 Wednesday 11th July, 15:0-16:40 Ulfrey Mal 1 0138 Biomedical engineering education 2 Wednesday 11th July, 15:0-16:40 Ulfrey Mal 1 0138 <							-, -
0137 Decisional and the cancel of the contract worked set of the contract set of the contract worked set of the contract set of	01374		J.A. Niestrawska	Oral Presentation	Abdominal aortic aneurysms 1	Wednesday 11th July, 15:10 -16:40	Liffey Hall 2
Development of abdominal actic aneurysm modeling and elucidating there of hemodynamic Uter y Hal 2 0127 Thrombus Formation Seque Right Rek Oral Presentation Abdominal actic aneurysms 1 Wednesdy 11th July, 15:10-16:40 Utfery Hal 2 0127 Thrombus Formatios Seque Right Rek For a Presentation Abdominal actic aneurysms 1 Wednesdy 11th July, 15:10-16:40 Utfery Hal 2 0127 Design as a Feature of BME Education: Stafying ABET and Preparing Students to Solve Clination Kees A Siomedical engineering education 2 Wednesdy 11th July, 15:10-16:40 Utfery MR1 0127 Biomedical engineering education at Eindhoven University of Technology Cees Omeres Biomedical engineering education 2 Wednesdy 11th July, 15:10-16:40 Utfery MR1 01381 The design of a biomedical engineering in Design and Jula C. Shelton Inivited Speaker Biomedical engineering education 2 Wednesdy 11th July, 15:10-16:40 Utfery MR1 01382 Commercialization Ana therhandt Oral Presentation Biomedical engineering education 2 Wednesdy 11th July, 15:10-16:40 Utfery MR1 01383 Biomedical engineering education 2 Wednesdy 11th July, 15:10-16:40 Utfery MR2	01375	-	Richard G.P. Lopata	Oral Presentation	Abdominal aortic aneurysms 1	Wednesday 11th July 15:10-16:40	Liffey Hall 2
1377 Thrombus Promotes Vessel Wall Oxygen Starvation in Abdominal Aortic Aneurysms Frick Remmering Oral Presentation Abdominal aortic aneurysms 1 Wednesday 111h July, 15:10-16:40 Uffery Hall 2 0178 Needs Design as Feature of BME Education: Satisfying ABET and Preparing Students to Solve Clinical Cees Oomens Invited Speaker Biomedical engineering education 2 Wednesday 111h July, 15:10-16:40 Uffery MR1 01380 A case study in the growth of BME corrical in the United States William Guillord Invited Speaker Biomedical engineering education 2 Wednesday 111h July, 15:10-16:40 Uffery MR1 01381 The design of a biomechanics engineering education 2 Wednesday 111h July, 15:10-16:40 Uffery MR1 01382 Commercinitzation Biomedical engineering education 2 Wednesday 111h July, 15:10-16:40 Uffery MR1 01383 Biomechanics and Biomechanics and Biomechanics and Biomechanics Meantering education 2 Wednesday 111h July, 15:10-16:40 Uffery MR1 01384 Massively Parallel Models of Multiscale temmodynamics in the Human Vasculature Amanda Randles Invited Speaker Biomechanics angineering education 2 Wednesday 11h July, 15:10-16:40 Uffery MR2 01384 Massively Parallel Models of Multiscale temmodynamics in the Human Vasculature <	013/3			orannesentation		weakesday 11113019, 15.10 10.40	
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Arterial pulse wave mechanics and ventriculo-					Computational challenges in multiscale modelling	1	
	01390	A finite element model to study the micromechanics of tendinous tissues	Eduardo Fancello	Oral Presentation	in biomechanics	Wednesday 11th July, 15:10 -16:40	Liffey MR2
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	01391		Michael Quail	Invited Speaker		Wednesday 11th July 15:10-16:40	Liffey MR3

				Arterial pulse wave mechanics and ventriculo-		
01392	Ventricular wave reflection and its effects on outflow patterns and external work	Jonathan Mynard	Invited Speaker	arterial interaction Arterial pulse wave mechanics and ventriculo-	Wednesday 11th July, 15:10 -16:40	Liffey MR3
01393	Evolution of aortic pressure and wave reflections during normal ageing: a computational study	Stamatia Pagoulatou	Oral Presentation	arterial interaction	Wednesday 11th July, 15:10 -16:40	Liffey MR3
01000	Tackling a clinical conundrum: the effect of repaired aortic coarctation on arterial	Stanlatio - agoalatou	orannesentation	Arterial pulse wave mechanics and ventriculo-		Liney into
01394	hemodynamics and ventriculo-arterial interactions	Giovanni Biglino	Oral Presentation	arterial interaction	Wednesday 11th July, 15:10 -16:40	Liffey MR3
	A numerical study of pulmonary vascular efficiency and right ventricular afterload during			Arterial pulse wave mechanics and ventriculo-		
01395	hypoxia induced pulmonary hypertension in mice	M. Umar Qureshi	Oral Presentation	arterial interaction	Wednesday 11th July, 15:10 -16:40	Liffey MR3
01396	Modelling arterial pulse wave propagation during healthy ageing	Peter Charlton	Oral Presentation	Arterial pulse wave mechanics and ventriculo- arterial interaction	Wednesday 11th July, 15:10 -16:40	Liffey MR3
				Arterial pulse wave mechanics and ventriculo-		
01397	Arterial hemodynamics in the horse: insights from a 1D arterial network model	Daimé Campos	Oral Presentation	arterial interaction	Wednesday 11th July, 15:10 -16:40	Liffey MR3
01398	Individualized cyclic mechanical loading improves callus properties in mice during the remodeling phase of fracture healing as assessed from time-lapsed in vivo imaging	Esther Wehrle	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 3	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 1
01398	Macro-architectural alterations and accumulation of advanced glycation end-products	Esther wehne	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 5	wednesday 11th July, 15:10-16:40	
01399	compromise the biomechanical performance of T2DM- and RYGB-bone in C57BI/6 mice	Carlos Marin	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 3	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 1
01400	Mechanobiology of distraction osteogenesis	Nicholaus Meyers	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 3	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 1
	Genetic variability in fracture healing under phosphate deficiency at the tissue and molecular					
01401	levels Diamaghanian investigation of forward hang strength ofter intromodullary hang graft	Amira Hussein	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 3	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 1
01402	Biomechanical investigation of femoral bone strength after intramedullary bone graft harvesting	Boyko Gueorguiev	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 3	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 1
01402	Estimation of the pull-out strength of a bone screw inserted in a vertebra by micro- finite	boyko Gueorgulev	orannesentation		Weakesday Hansaly, 15.10 10.40	
01403	element modeling	Ricardo Belda	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 3	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 1
	Femoral shaft fractures: Bone behaviour under high and low energy trauma in paediatric, adult					
01404	and older populations.	George Dixon, Henry Crouch-Smith	n Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 3	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 1
01405	What is the influence of strain rate on human cortical bone crack propagation mechanisms?	Rémy Gauthier	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 3	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 1
01405	what is the influence of strain rate on number contrain some crack propagation mechanisms.		orannesentation		Weakesday Hansaly, 15.10 10.40	
	Individual Trabecula Segmentation (ITS) and Microindentation Testing Reveal Structural and					
	Mechanical Deteriorations in the Subchondral Trabecular Bone under Moderately Degenerated					
01407	Cartilage in Osteoarthritis (OA)	X. Edward Guo	Invited Speaker	Bone-cartilage cross-talk	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 2A
01408	Deconstructing the mechanobiology of bone/cartilage cross-talk to identify therapeutic targets for musculoskeletal diseases	Farshid Guilak	Invited Speaker	Bone-cartilage cross-talk	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 2A
01409	Viscoelastic and histomorphological characterisation of human osteochondral tissue	Sophie Mountcastle	Oral Presentation	Bone-cartilage cross-talk	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 2A
01410	Mechanical alterations of the bone-cartilage unit in a rabbit model of early osteoarthrosis	Sarah Pragnère	Oral Presentation	Bone-cartilage cross-talk	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 2A
	Variation of Microstructure and Biomechanicl Properties of Subchondral Bone in Patient with					
01411	Osteoporosis and Osteoarthritis	Zhifeng Yu	Oral Presentation	Bone-cartilage cross-talk	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 2A
01412	A Novel Microfluidic System for culturing and mechanically stimulate a multi-tissue 3D Articular Joint Model	Giovanni Stefano Ugolini	Oral Presentation	Bone-cartilage cross-talk	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 2A
01412	Role of Subchondral Bone Changes in an Acute Model of Post Traumatic Osteoarthritis	Tom Coughlin	Oral Presentation	Bone-cartilage cross-talk	Wednesday 11th July, 15:10-16:40 Wednesday 11th July, 15:10 -16:40	Wicklow Hall 2A
					, , , , , , , , , , , , , , , , , , , ,	
01414	Probing Molecular Damage and Failure of Collagen in Connective Tissues	Jeffrey Weiss	Invited Speaker	Tendon, ligament and enthesis biomechanics 1	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 2B
01415	Modelling of the twisted fibre structure of Achilles tendon	Chia-Han Yeh	Oral Presentation	Tendon, ligament and enthesis biomechanics 1	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 2B
01416	The Synergistic Effect of Microenvironmental Cues for Tenogenic Phenotype Maintenance	Dimitrios Tsiapalis	Oral Presentation	Tendon, ligament and enthesis biomechanics 1	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 2B
01417	Regulation of tenocyte response to interleukin-1β via controlling intracellular mechanical factors	Eijiro Maeda	Oral Presentation	Tendon, ligament and enthesis biomechanics 1	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 2B
0141/	Biomechanical and histopathological investigation of the effects of high-dose vitamin C and	Lijii O Macua	Grannesentation	renden, irgament and entriesis biometridilles 1	wearesday 1101 July, 13.10 -10.40	
01418	hyaluronic acid on tendon healing	Yunus Ziya Arslan	Oral Presentation	Tendon, ligament and enthesis biomechanics 1	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 2B
01419	Piezoelectric scaffolds: Tendon repair through electromechanical stimulation.	Marc Fernandez	Oral Presentation	Tendon, ligament and enthesis biomechanics 1	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 2B
01420	Influence of menstrual cycle hormones on distal biceps brachii tendon mechanics	Samantha Kuzyk	Oral Presentation	Tendon, ligament and enthesis biomechanics 1	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 2B
01424	Constitutive modeling for tendon aging and healing under uncertain uniaxial stress-stretch	Daniela F. Sahiaurani	Oral Drasart-ti	Tondon ligamont and outless's bissession in the	Wednesday 11th July 15:10, 10:40	Wiekley Hell 20
01421	response	Daniele E. Schiavazzi	Oral Presentation	Tendon, ligament and enthesis biomechanics 1	Wednesday 11th July, 15:10 -16:40	Wicklow Hall 2B
				Biofabrication for musculoskeletal tissue		
01422	Extrusion-based 3D printing of biodegradable hydrogels	Jason Burdick	Invited Speaker	engineering	Wednesday 11th July, 15:10 -16:40	Ecocem
				Biofabrication for musculoskeletal tissue		
01423	Designing bio-ink and bio-resin platforms for 3D bioprinting and bioassembly	Tim BF Woodfield	Invited Speaker	engineering	Wednesday 11th July, 15:10 -16:40	Ecocem
01424	Bio-conditioning of Nanoengineered Ionic-Covalent Entanglement (NICE) Bioink Hydrogels	Poland Kaupac	Oral Brocontation	Biofabrication for musculoskeletal tissue	Wodporday 11th July 15:10 16:40	Ecocom
01424	Mimics the Osteogenic Niche for Craniomaxillofacial Implants	Roland Kaunas	Oral Presentation	engineering Biofabrication for musculoskeletal tissue	Wednesday 11th July, 15:10 -16:40	Ecocem
01425	3D Bioprinting Spatial Gradients of VEGF to Enhance Vascularization for Bone Tissue Engineering	Fiona Freeman	Oral Presentation	engineering	Wednesday 11th July, 15:10 -16:40	Ecocem
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				Biofabrication for musculoskeletal tissue		
01426	Bioprinting Strategy for Neovascularization of Tissue-Engineered Bone Constructs	Marco Santoro	Oral Presentation	engineering Biofabrication for musculoskeletal tissue	Wednesday 11th July, 15:10 -16:40	Ecocem
01427	The development of 3D bioprinted, vascularised composite constructs for large bone repair Mechanical characterization of electrospun nanofibrous multiscale scaffolds for tendon	Jessica Nulty	Oral Presentation	engineering Biofabrication for musculoskeletal tissue	Wednesday 11th July, 15:10 -16:40	Ecocem
01428	regeneration	Alberto Sensini	Oral Presentation	engineering	Wednesday 11th July, 15:10 -16:40	Ecocem
01429	Coronary drug eluting stents - time for some personalised medicine? A novel computational method for simulating arterial remodelling around a biodegradable	Keith Oldroyd	Invited Speaker	Stenting within the cardiovascular system 1	Wednesday 11th July, 15:10 -16:40	Wicklow MR1
O1430	magnesium stent utilising multiple remodelling stimuli.	Peter McHugh	Invited Speaker	Stenting within the cardiovascular system 1	Wednesday 11th July, 15:10 -16:40	Wicklow MR1
01431	Bioresorbable vascular scaffold: an integrated quantification	Pei-Jiang Wang	Oral Presentation	Stenting within the cardiovascular system 1	Wednesday 11th July, 15:10 -16:40	Wicklow MR1
01432	Stent strut geometry and hemodynamics modulate wound healing	Juan Jiménez	Oral Presentation	Stenting within the cardiovascular system 1	Wednesday 11th July, 15:10 -16:40	Wicklow MR1
01452	On the influence of non-uniform binding site density in determining arterial drug distribution	Judit Jinteriez	orarresentation	Sterting within the cardiovascular system 1	Weakesday 11(1)(a), 15:10 10:40	
01433	following stent-based delivery An OCT-based reconstruction methodology to investigate the link between wall shear stress	Javier Escuer, Sean McGinty	Oral Presentation	Stenting within the cardiovascular system 1	Wednesday 11th July, 15:10 -16:40	Wicklow MR1
01434	and neointimal coverage in patient-specific stented coronary bifurcations	Susanna Migliori	Oral Presentation	Stenting within the cardiovascular system 1	Wednesday 11th July, 15:10 -16:40	Wicklow MR1
01435	Investigating the effect of degradation on the micromechanical properties of a novel metallic biomaterial for stent application	Jennifer Frattolin	Oral Presentation	Stenting within the cardiovascular system 1	Wednesday 11th July, 15:10 -16:40	Wicklow MR1
01455		Jennier Hattoin	Orai Presentation	Stenting within the cardiovascular system 1	weatesday 11(1)uly, 15.10-10.40	
	Multiscale imaging-based computational modeling of knee joint, articular cartilage and			Synergy of image-based modelling and model-		
01436	chondrocyte	Rami Korhonen	Invited Speaker	based imaging for probing biological systems	Wednesday 11th July, 15:10 -16:40	Wicklow MR2
	Imaging hearing in plants: integrated imaging and modeling to identify acoustic detection			Synergy of image-based modelling and model-		
01437	inArabidopsis thaliana A multiscale computational model for mechanostat regulation in bone based on biochemical	Guy Genin	Invited Speaker	based imaging for probing biological systems Synergy of image-based modelling and model-	Wednesday 11th July, 15:10 -16:40	Wicklow MR2
01438	osteocyte feedback	Peter Pivonka	Oral Presentation	based imaging for probing biological systems	Wednesday 11th July, 15:10 -16:40	Wicklow MR2
01439	Estimating patient-specific myofiber strain from in vivo MRI data by solving a computational model	Luigi E. Perotti	Oral Presentation	Synergy of image-based modelling and model- based imaging for probing biological systems	Wednesday 11th July, 15:10 -16:40	Wicklow MR2
01440	Comparison of strains in cadaveric and intact, living human brains in response to mild angular head acceleration	Andrew Knutsen	Oral Presentation	Synergy of image-based modelling and model- based imaging for probing biological systems	Wednesday 11th July, 15:10 -16:40	Wicklow MR2
01441	Distribution Features for Measuring Similarity in Strain Fields	Arnold D. Gomez	Oral Presentation	Synergy of image-based modelling and model- based imaging for probing biological systems	Wednesday 11th July, 15:10 -16:40	Wicklow MR2
01442	Identification of anisotropic hyperelastic constitutive parameters for the anterior cruciate ligament using full-field displacements and the virtual fields method	Callan Luetkemeyer	Oral Presentation	Synergy of image-based modelling and model- based imaging for probing biological systems	Wednesday 11th July, 15:10 -16:40	Wicklow MR2
	Interplay between mechanotransduction and force generation underlies cell division in					
01443	confining microenvironments	Ovijit Chaudhuri	Oral Presentation	Cell interaction with microenvironment 2	Wednesday 11th July, 15:10 -16:40	Wicklow MR4
01443	-	-	Oral Presentation	Cell interaction with microenvironment 2		Wicklow MR4
01444	Probing the interplay of nuclear, cellular, and matrix mechanics within living tissues	Xin Xu	Utal Presentation	Cell Interaction with microenvironment 2	Wednesday 11th July, 15:10 -16:40	WICKIOW WIR4
01446	A three-dimensional in vitro osteocyte model for mechanobiology: Micro-3D printed lacuno-	Felicitas Flohr	Oral Presentation	Cell interaction with microenvironment 2	Wednesday 11th July 15:10 16:40	Wicklow MR4
01440	canalicular networks to control osteocyte morphology	Felicitas Fiorir	Utal Presentation	Cell Interaction with microenvironment 2	Wednesday 11th July, 15:10 -16:40	WICKIOW WIR4
01117	Feeling the tension: cell-inducedstresses in the extracellular matrixFeeling the tension: cell-	Change Duranda una	Ovel Brownstation	Collision with asian an income at 2	Wednesder 4446 July 45:40, 46:40	Michael And
01447 01448	induced stresses in the extracellular matrix	Chase Broedersz	Oral Presentation Oral Presentation	Cell interaction with microenvironment 2	Wednesday 11th July, 15:10 -16:40	Wicklow MR4 Wicklow MR4
	Mechanics Links Cell Interactions with Cancer Microenvironment	Cheng Dong		Cell interaction with microenvironment 2	Wednesday 11th July, 15:10 -16:40	
01449	Gradient of HGF breaks symmetry in expanding MDCK monolayer	Hwanseok Jang	Oral Presentation	Cell interaction with microenvironment 2	Wednesday 11th July, 15:10 -16:40	Wicklow MR4
O1450	Cellular Responses to Electron-Beam Modified Elastomeric Surfaces Presenting Micron to Nanoscale Heterogeneous Rigidity	Marc Fernandez	Oral Presentation	Cell interaction with microenvironment 2	Wednesday 11th July, 15:10 -16:40	Wicklow MR4
01451	Microenvironment dimensionality modulates nuclear envelope morphology and tension to regulate mesenchymal stem cell mechanotransduction	Brian Cosgrove	Oral Presentation	Cell interaction with microenvironment 2	Wednesday 11th July, 15:10 -16:40	Wicklow MR4
01451		bhan cosgrove	Orar Presentation	centificaction with microenvironment 2	wednesday 11(1)diy, 15.10-10.40	WICKIOW WIN4
				Prenatal cardiovascular fluid mechanics and flow	1	
01454	Fluid mechanics of left-right symmetry breaking in the zebrafish embryo	David Smith	Invited Speaker	mechanobiology	Wednesday 11th July, 17:10 -18:40	Liffey B
01455	Proximal shank progression in prosthetic gait	Rosa Kolbeinsdottir Andi Isra Mahyuddin, Tatacipta	Oral Presentation	Amputee biomechanics 2	Wednesday 11th July, 17:10 -18:40	Auditorium
01456	Stability and Variability Analysis of Transfemoral Amputees Gait Parameters First results of a clinical study with trauma forefoot amputees: Comparison of gait parameters	Dirgantara	Oral Presentation	Amputee biomechanics 2	Wednesday 11th July, 17:10 -18:40	Auditorium
01457	wearing a customized carbon and a standard silicone prosthesis. Development of a neural network based active ankle prosthesis algorithm to address	Eugen Dötzel	Oral Presentation	Amputee biomechanics 2	Wednesday 11th July, 17:10 -18:40	Auditorium
01458	amputation level and minimum sensor requirements.	Ahmet Dogukan Keles Hiroyuki Sakata, Satoru Hashiauma, Hirashi Takamura	Oral Presentation	Amputee biomechanics 2	Wednesday 11th July, 17:10 -18:40	Auditorium
01459	Force production capability during running in unilateral transfemoral amputees	Hashizume, Hiroshi Takemura, Hiroaki Hobara	Oral Presentation	Amputee biomechanics 2	Wednesday 11th July, 17:10 -18:40	Auditorium

O1460	Rectus femoris, vastus lateralis and semimembranosus can be strengthened for unilateral transtibial amputees Development of a Smart Socket for Pressure Measurement in Lower Limb Prosthetic	Ziyun Ding	Oral Presentation	Amputee biomechanics 2	Wednesday 11th July, 17:10 -18:40	Auditorium
01461	Applications	Matthew Hopkins	Oral Presentation	Amputee biomechanics 2	Wednesday 11th July, 17:10 -18:40	Auditorium
01462	Hip work in runners with a unilateral transtibial amputation	Lauren A. Sepp	Oral Presentation	Amputee biomechanics 2	Wednesday 11th July, 17:10 -18:40	Auditorium
04460	Activity classification from prosthesis embedded sensors in a population of people with		0 I.D. I.V.			
01463	transfemoral amputation	Boris Dauriac	Oral Presentation	Amputee biomechanics 2	Wednesday 11th July, 17:10 -18:40	Auditorium
				Prenatal cardiovascular fluid mechanics and flow		
01464	Selective Filopodia Adhesion Ensures Robust Cell Matching in the Drosophila Heart	Timothy Saunders	Invited Speaker	mechanobiology	Wednesday 11th July, 17:10 -18:40	Liffey B
	The Embryonic Cardiac Outflow Tract Features a Double Helical Flow that is Aligned with the			Prenatal cardiovascular fluid mechanics and flow		
01465	Aorticopulmonary Septation	Sheldon Ho	Oral Presentation	mechanobiology	Wednesday 11th July, 17:10 -18:40	Liffey B
01466	Condition is write in which we are the sized some entities of the combination in hearth well.	David Bark	Ovel Descentation	Prenatal cardiovascular fluid mechanics and flow	We do and an 4445 July 17:40, 40:40	Liffey B
01466	Cardiac looping is driven by the mechanical properties of the embryonic heart wall.	Merve Celik, Cansu Karakaya,	Oral Presentation	mechanobiology Prenatal cardiovascular fluid mechanics and flow	Wednesday 11th July, 17:10 -18:40	Шеув
01467	Histological Investigation of Aortic Arches in Conotruncal Banded Chicken Embryos	Kerem Pekkan	Oral Presentation	mechanobiology	Wednesday 11th July, 17:10 -18:40	Liffey B
	Hemodynamic-driven growth and remodeling of the pharyngeal arch arteries, a multiscale			Prenatal cardiovascular fluid mechanics and flow		
O1468	modeling approach	Stephanie Lindsey	Oral Presentation	mechanobiology	Wednesday 11th July, 17:10 -18:40	Liffey B
				Prenatal cardiovascular fluid mechanics and flow		
01469	Spatial correlation of Dach1 and shear stress in embryonic coronary arteries	Suhaas Anbazhakan	Oral Presentation	mechanobiology	Wednesday 11th July, 17:10 -18:40	Liffey B
01470	Gender and age effects on lower limb joint torques and powers during running	Max R Paquette	Oral Presentation	Running Injuries 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 1
01.00	The effect of footwear on stride length and sagittal-knee-flexion moments in overground	max ne aquette	ordinnesentation			Liney ridit 2
01471	running in a recreational-endurance-running population.	Richard Stoneham	Oral Presentation	Running Injuries 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 1
01472	Alterations of Foot Posture and Lower Extremity Biomechanics after Long Distance Running	Qichang Mei	Oral Presentation	Running Injuries 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 1
04470	The effect of shoe heel design on impact loading and joint kinematics during overground .		0 I.D. I.V.			
01473	running Finite Element Analysis of Fifth Metatarsal Stress Distribution and Concentration during Soccer	Zuo-Liang Liu	Oral Presentation	Running Injuries 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 1
01474	Movements	Yusuke Miyazaki	Oral Presentation	Running Injuries 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 1
01475	The influence of prolonged weight bearing physical activities on plantar tissue behavior	Taeyong Lee	Oral Presentation	Running Injuries 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 1
O1476	The Effect of Running Foot Strike Transition on Impulse per Kilometer	Gregory Freisinger	Oral Presentation	Running Injuries 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 1
	The effect of motion control footwear combined therapeutic exercise on pain , lower extremity					
01477	strength and foot alignment for runners with patellofemoral pain syndrome	Yen-Chen Tseng	Oral Presentation	Running Injuries 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 1
04564	Pelvic and trunk motion changes during late swing phase of maximal sprinting under fatigue	To more than 1 diagonal di	Ovel Descentation	Durania - Iniuria - 2	We do and an 4445 July 17:40, 40:40	1:55
01561	condition	Terumitsu Miyazaki	Oral Presentation	Running Injuries 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 1
	Influence of multiple overlapping uncovered stents on the local mechanical environment:					
01478	porosity and cross-stent structure	Shuo Wang	Oral Presentation	Abdominal aortic aneurysms 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 2
	Does aneurysm development weaken the abdominal aortic wall? Results of a 10-year					
01479	investigation with age-matched controls	Suresh M.L. Raghavan	Oral Presentation	Abdominal aortic aneurysms 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 2
01480	Impact of constitutive descriptions on calculated peak wall stress in abdominal aortic	Stanislay Dalaar	Oral Presentation	Abdominal partia anour same 2	Wednesday 11th July 17:10 18:40	Liffey Hall 2
01480 01481	aneurysms How Calcifications Can Be Used to Predict Abdominal Aortic Aneurysm Rupture	Stanislav Polzer Hilary Barrett	Oral Presentation Oral Presentation	Abdominal aortic aneurysms 2 Abdominal aortic aneurysms 2	Wednesday 11th July, 17:10 -18:40 Wednesday 11th July, 17:10 -18:40	Liffey Hall 2
01481	Biomechanical Approach is superior to maximum diameter criterion in predicting Abdominal	Thaty barrett	Oral Presentation	Abdominal abrite alleurysins 2	wearesday 11(1)(1), 17.10-18.40	Liney Hall 2
01482	Aortic Aneurysm rupture - Blinded Study	Stanislav Polzer	Oral Presentation	Abdominal aortic aneurysms 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 2
	Changes in the biomechanical properties of abdominal aortic aneurysm over the time course of					
01483	expansion	Christopher Miller	Oral Presentation	Abdominal aortic aneurysms 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 2
01404	Effects of Arterial Morphology on Outcomes for Isolated Common Iliac Artery Aneurysms: A	Lauia Darkan	Ovel Descentation	Ale de maine el el contribución de la contracta de	We do and an 4445 July 17:40, 40:40	1:#
01484	Computational Fluid Dynamics Study of Ruptured and Intact Cases Patient-Specific Computational Analysis of the Impact of Fenestrated and Chimney	Louis Parker	Oral Presentation	Abdominal aortic aneurysms 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 2
01485	Endovascular Aortic Repair on Haemodynamics in Renal Arteries	Sabrina Ben Ahmed	Oral Presentation	Abdominal aortic aneurysms 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 2
	Finite element analysis-derived peak wall rupture index is increased in AAA patients prior to					
01486	rupture and correlates to time to rupture	Antti Siika	Oral Presentation	Abdominal aortic aneurysms 2	Wednesday 11th July, 17:10 -18:40	Liffey Hall 2
04407						
01487 01488	Applying a science capital approach to increase engagement with biomechanics	Laura-Anne Furlong	Invited Speaker	Public engagement with biomechanics	Wednesday 11th July, 17:10 -18:40	Liffey MR1
01466	Finding the balance between education outreach and research goals National Biomechanics Day: STEM outeach for high school students through the 21st century's	Sarah Shultz	Invited Speaker	Public engagement with biomechanics	Wednesday 11th July, 17:10 -18:40	Liffey MR1
01489	breakthrough science	Paul DeVita	Oral Presentation	Public engagement with biomechanics	Wednesday 11th July, 17:10 -18:40	Liffey MR1
	Using Sports to Engage Youth in Science, Technology, Engineering and Mathematics (STEM)			-		
01490	Outreach	Robin Queen	Oral Presentation	Public engagement with biomechanics	Wednesday 11th July, 17:10 -18:40	Liffey MR1
01491	Endeavours in recruitment via social media for biomechanical studies	Angela Kedgley	Oral Presentation	Public engagement with biomechanics	Wednesday 11th July, 17:10 -18:40	Liffey MR1

Modeling uncertainty guardification and sensibility analysis for cardiovacular model productions Leff une heliowik Invited Speaker Modeling uncertainty and programme and sensitivity (MI), VI, VI, VI, VI, VI, VI, VI, VI, VI, VI	01492	A tool for sharing best practices for biomechanics instruction and outreach: The American Society of Biomechanics-sponsored Teaching Repository	Kimberly Bigelow	Oral Presentation	Public engagement with biomechanics	Wednesday 11th July, 17:10 -18:40	Liffey MR1
Addeling uncertainty and propagation of any defecting uncertainty and propagation of any modeling uncertainty and propagation of any modeling uncertainty and propagation of any 					0 , 1 1 0		
0.1444Computational methods for unsertainty quantification of complex biological systemsnonifier RowsonInvited Speakerfor biomechanics systemsWednesday 1111, July, 12:10:18:00Uffer MR20.1456Sensitivity of Ausculoxizeital Models to Pianer Simplification of Thiofennal ModelSud MarellOral Presentationfor biomechanics systemsWednesday 1111, July, 12:10:18:00Uffer MR20.1466With ange of gamme material angeaties are seened for spaceballitic is an angeaties of dataJuly and process to see angeaties of dataWednesday 1111, July, 12:10:18:00Uffer MR20.1476With ange of gamme material concentration systemJuly And RohnOral Presentationfor biomechanics systemsWednesday 1111, July, 12:10:18:00Uffer MR20.1486Modelling uncertainty and propagation of data in rigid maccinoselectorJuly And RohnOral Presentationfor biomechanics systemsWednesday 1111, July, 12:10:18:00Uffer MR20.1486Modelling uncertainty and propagation of data in rigid maccinoselectorTo an accoOral Presentationfor biomechanics systemsWednesday 1111, July, 12:10:18:00Uffer MR20.1486Modelling uncertainty and propagation of data in rigid maccinoselectorWithing AnalInfer MR3Wednesday 1111, July, 12:10:18:00Uffer MR30.159Modelling uncertainty and propagation of data in rigid maccinoselectorWithing AnalInfer MR3Wednesday 1111, July, 12:10:18:00Uffer MR30.150Modelling uncertainty and propagation of data in rigid maccinoselectorWithing AnalInfer MR3Wednesday 1111, July, 12:10:18:00Uffe	01493	Uncertainty quantification and sensitivity analysis for cardiovascular model predictions	Leif Rune Hellevik	Invited Speaker		Wednesday 11th July, 17:10 -18:40	Liffey MR2
0.1455Sensitivity Of Mucaulokketeki Madeki to Planar Simplification Of Theofermoni MotionSauk MarteliOral Presentationfor bomechanics systemWednesday 1th. July, 17:10:18:40Ulfry MR20.148Parameter uncertainty in computational models of occhiear implications surgery reproduce the variability in empirical imposents of saity and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact forces? to produce the variability in empirical measures of laying and joint contact fo	01494	Computational methods for uncertainty quantification of complex biological systems	Jennifer Rowson	Invited Speaker	for biomechanics systems	Wednesday 11th July, 17:10 -18:40	Liffey MR2
0.146Parameter uncertainty in computational modes of cochieve implantation surgery transper digament material in proteins encledif or a proteins system modeling uncertainty and propagation of acts in right material surgeries meeded of a proteins systems modeling of constructive surgery modeling uncertainty and propagation of acts in right material surgeries meeded of a proteins systems modeling of constructive surgery modeling uncertainty and propagation of acts in right material surgeries meeded of a protein systems modeling uncertainty and propagation of acts in right material surgeries meeded of a protein modeling uncertainty and propagation of acts in right material surgeries meeded of a protein modeling uncertainty and propagation of acts in right material surgeries meeded of a protein modeling uncertainty and propagation of acts in right material surgeries meeded of a protein modeling uncertainty and propagation of acts in right material surgeries meeting and protein modeling uncertainty and propagation of acts in right material surgeries meeting and protein meeting of advanced relation systemsWedenesdy 11th July, 17:10-18:40Uffey MR20150uncertainty quantification in computational biomechanics feasible for computational fluid dynamics and data protein an acystem for advanced relation of activascular flos scan for hemedynamic computational fluid dynamics and data scan for hemedynamic and data in right and comparison between computational fluid dynamics and data scan for hemedynamic and data in right and comparison between computational fluid dynamics and data scan for hemedynamic and data in right and comparison between computational fluid dynamics and data scan for hem	01495	Sensitivity Of Musculoskeletal Models to Planar Simplification Of Tibiofemoral Motion	Saulo Martelli	Oral Presentation	for biomechanics systems	Wednesday 11th July, 17:10 -18:40	Liffey MR2
0147Capacity is empirical measures of laxity and joint contact forces?Joshus BothOral Presentationfor biomechanics systemsWednesday 11th July, 17:10-18:40Uffey MR20148Modeling uncertainty and propagation of data in rigid musculoskeletal simulators: currentTaeksang LeeOral Presentationfor biomechanics systemsWednesday 11th July, 17:10-18:40Uffey MR20149Nowledge, Imitations and future challenges.Taen Tuan DaoOral PresentationFor biomechanics systemsWednesday 11th July, 17:10-18:40Uffey MR20150Insprach for uncertainty guarification in computational biomechanics feabile for comput.Taen Tuan DaoOral PresentationVednesday 11th July, 17:10-18:40Uffey MR30150Insertainty guarification in computational biomechanics feabile for comput.Taen Tuan DaoOral PresentationVednesday 11th July, 17:10-18:40Uffey MR30150Insertainty guarification in dog-induced array frameGinding RozzaInvited Speakervednesday 11th July, 17:10-18:40Uffey MR30150Uncertainty Quarification in dog-induced array frameGinding RozzaInvited Speakervednesday 11th July, 17:10-18:40Uffey MR30150Uncertainty Quarification in dog-induced array frameGinding RozzaInvited Speakervednesday 11th July, 17:10-18:40Uffey MR30150Uncertainty Quarification in dog-induced array frameGinding RozzaInvited Speakervednesday 11th July, 17:10-18:40Uffey MR30150Uncertainty Quarification in dog-induced array frameFor Domechanics SystemsVednesday 11th July, 17:1	01496		Jérôme Noailly	Oral Presentation	for biomechanics systems	Wednesday 11th July, 17:10 -18:40	Liffey MR2
Modeling uncertainty and progragation of data in ligid muscloskeletal simulation: current Ten Tuan DatoModeling uncertainty and progragation of data programmed to provide the programmed to provide the programmed to provide the programmed the provide	01497	reproduce the variability in empirical measures of laxity and joint contact forces?	Joshua Roth	Oral Presentation	for biomechanics systems	Wednesday 11th July, 17:10 -18:40	Liffey MR2
An approach for uncertainty quantification in computational biomechanics feasible for complex. Verification, validation and uncertainty 01500 large scale models Wolfgang A. Wall Invited Speaker quantification in cardiovascular CFD Wednesday 11th July, 17:10-18:40 Liffey MR3 01501 uncertainty quantification in drail-induced order methods in CFD: applications to optimisation, control, subject on advised order methods in CFD: applications to optimisation, control, subject on advised order methods in CFD: applications to optimisation, control, subject on advised order methods in CFD: applications to optimisation, control, subject on advised order methods in CFD: applications to optimisation, control, subject on advised order methods in CFD: applications to optimisation, control, subject on advised order methods in CFD: applications to optimisation, control, subject on advised order methods in CFD: applications to optimisation, control, subject on advised order methods in cardiovascular CFD Wednesday 11th July, 17:10-18:40 Liffey MR3 01502 Uncertainty Cuantification in drug-induced arrhythmias Francisco Sahil Costabal Oral Presentation Wednesday 11th July, 17:10-18:40 Liffey MR3 01504 Impact of nucertainty quantification in cardiovascular CFD Wednesday 11th July, 17:10-18:40 Liffey MR3 01505 ascending thoracia cardio and uncertainty Wednesday 11th July, 17:10-18:40 Liffey MR3 01504 Impact of nucertainty Quantiffication in ducertainty Wednesday 11t	01498	5 S ,	Taeksang Lee	Oral Presentation		Wednesday 11th July, 17:10 -18:40	Liffey MR2
01500Iarge scale modelsWolfgang A. WallInvited Speakerquantification in acridivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301501uncertainty quantification of data assimilation of parametric cardivascular formGialuigi RozzaInvited Speakerquantification in acridivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301502vere 4D Flow MRISean RothenbergerOral Presentationquantification in acridivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301503Uncertainty Quantification in drug-induced arrhythmias Modelling the effect of flow variability on intracenali aneurysm with Gaussian processes and Impact of uncertainties in life conditions on the predictions of hemodynamic singlificationOral Presentationquantification in acridivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301504Limed parameter Impact of uncertainties in life conditions on the predictions of hemodynamic singlificationOral Presentationquantification in acridivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301504Limed parameter contrainties in life conditions on the predictions of hemodynamic singlification in acridivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301505ascending thoracic antri aneurysms Reduced models for uncertainty quantification in the cardivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301505ascending thoracic antri aneurysms Reduced models for uncertainty quantification in the cardivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301505ascending thoracic antric antri aneurys	01499	knowledge, limitations and future challenges.	Tien Tuan Dao	Oral Presentation	for biomechanics systems	Wednesday 11th July, 17:10 -18:40	Liffey MR2
01500Iarge scale modelsWolfgang A. WallInvited Speakerquantification in acridivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301501uncertainty quantification of data assimilation of parametric cardivascular formGialuigi RozzaInvited Speakerquantification in acridivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301502vere 4D Flow MRISean RothenbergerOral Presentationquantification in acridivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301503Uncertainty Quantification in drug-induced arrhythmias Modelling the effect of flow variability on intracenali aneurysm with Gaussian processes and Impact of uncertainties in life conditions on the predictions of hemodynamic singlificationOral Presentationquantification in acridivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301504Limed parameter Impact of uncertainties in life conditions on the predictions of hemodynamic singlificationOral Presentationquantification in acridivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301504Limed parameter contrainties in life conditions on the predictions of hemodynamic singlification in acridivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301505ascending thoracic antri aneurysms Reduced models for uncertainty quantification in the cardivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301505ascending thoracic antri aneurysms Reduced models for uncertainty quantification in the cardivascular CPDWednesday 11th. July, 17:10-18:40Liffey MR301505ascending thoracic antric antri aneurys		An approach for uncertainty quantification in computational biomechanics feasible for complex			Verification validation and uncertainty		
01501uncertainty quantification and data assimilation of parametric cardiovascular flow Cerebral aneurysm hemodynamic comparison between computational fluid dynamics and dual Cerebral aneurysm hemodynamic comparison between computational fluid dynamics and dual Cerebral aneurysm hemodynamic comparison between computational fluid dynamics and dual Cerebral aneurysm hemodynamic comparison between computational fluid dynamics and dual Cerebral aneurysm hemodynamic comparison between computational fluid dynamics and dual Cerebral aneurysm hemodynamic comparison between computational fluid dynamics and dual Cerebral aneurysm kemodynamic comparison between computational fluid dynamics and dual Cerebral aneurysm kemodynamic comparison between computational fluid dynamics and dual Cerebral aneurysm kemodynamic comparison between computational fluid dynamics and dual Cerebral aneurysm kemodynamic comparison between computational fluid dynamics and dual Sean RothenbergerIntel Speaker Cerebral aneurysmQuantification in cardiovascular CPD Verification, validation and uncertainty Verification, validation and uncertainty Verifica	01500	large scale models		Invited Speaker	quantification in cardiovascular CFD	Wednesday 11th July, 17:10 -18:40	Liffey MR3
Or constraintsVerification, validation and uncertaintyWednesday 11th July, 17:10 - 18:40Liffey MR301503Uncertainty Quantification in drug-induced arrhythmias Modelling the effect of flow variability on intracranial aneurysms with Gaussian processes and Impact of uncertainty quantification in terdivascular CFD Verification, validation and uncertainty Verification, validation and uncertainty Verification in cardivascular CFD Verification, validation and uncertainty Verification, validation and uncertainty verification in cardivascular CFD Verification in cardivascular	01501	uncertainty quantification and data assimilation of parametric cardiovascular flows	Gianluigi Rozza	Invited Speaker	quantification in cardiovascular CFD	Wednesday 11th July, 17:10 -18:40	Liffey MR3
Modelling the effect of flow variability on intracranial aneurysms with Gaussian processes and lumped parameter models impact of uncertainties in linet conditions on the predictions of hemodynamic simulations in ascending thoracic aortic aneurysms Reduced models for uncertainty quantification in the cardiovascular construction the cardiovascular network via domain decompositionAll Sarrami-ForoushaniOral Presentation parami-ForoushaniWeiffication, validation and uncertainty quantification in cardiovascular CFDWednesday 11th July, 17:10 - 18:40Liffey MR301505ascending thoracic aortic aneurysms Reduced models for uncertainty quantification in the cardiovascular network via domain decompositionAlessandro MariottiOral Presentation PresentationWeiffication in cardiovascular CFDWednesday 11th July, 17:10 - 18:40Liffey MR301506ascending thoracic aortic aneurysms reduced models for uncertainty quantification in cardiovascular CFDWednesday 11th July, 17:10 - 18:40Wicklow Hall 101507stance and sideways fall orientations on the same specimen A biofidelic sideways fall orientations on the same specimen A biofidelic sideways fall simulator could aid in the design and testing of prophylactic femoral augmentation trategiesMorteza AminiOral Presentation Bone fracture mechanics (in vitro and in vivo) 4Wednesday 11th July, 17:10 - 18:40Wicklow Hall 101509Femoral biomechanics via CT-based finite element models with nonlinear constitutive response Morteza minitOral Presentation Bone fracture mechanics (in vitro and in vivo) 4Wednesday 11th July, 17:10 - 18:40Wicklow Hall 101509Femoral biomechanics via CT-based finite element models of the tibia	01502	venc 4D Flow MRI	Sean Rothenberger	Oral Presentation	-	Wednesday 11th July, 17:10 -18:40	Liffey MR3
Impact of uncertainties in inlet conditions on the predictions of hemodynamic simulations in ascending thoracic actric aneurysms Reduced models for uncertainty quantification in cardiovascular CFD werfication, validation and uncertainty quantification in cardiovascular CFD werfication, validation and uncertai	01503		Francisco Sahli Costabal	Oral Presentation	•	Wednesday 11th July, 17:10 -18:40	Liffey MR3
Reduced models for uncertainty quantification in the cardiovascular network via domain decompositionVerification, validation and uncertainty quantification in cardiovascular CFDWednesday 11th July, 17:10 - 18:40Liffey MR301506An enhanced biomechanical femoral test setup to study multiple loading configurations in A biofidelic sideways fall orientations on the same specimen A biofidelic sideways fall simulator could aid in the design and testing of prophylactic femoral augmentation strategiesMorteza AminiOral PresentationBone fracture mechanics (in vitro and in vivo) 4Wednesday 11th July, 17:10 - 18:40Wicklow Hall 101508augmentation strategiesAnita FungOral PresentationBone fracture mechanics (in vitro and in vivo) 4Wednesday 11th July, 17:10 - 18:40Wicklow Hall 101509Femoral biomechanics via CT-based finite element models with nonlinear constitutive response Mechanical analysis of mini-invasive bone augmentation to primary stabilization of the Boyko GueorguievOral Presentation Oral PresentationBone fracture mechanics (in vitro and in vivo) 4Wednesday 11th July, 17:10 - 18:40Wicklow Hall 101511osteosynthesis of tibial plateau fractures: balloon vs bone tamp Finite element models of the tibia with realistic boundary constraints predict bending Of the tibia with realistic boundary constraints predict bending Finite element models of the tibia with realistic boundary constraints predict bending Finite element models of the tibia with realistic boundary constraints predict bending Finite element models of the tibia with realistic boundary constraints predict bending Finite element models of the tibia with realistic boundary constraints predict bending Finite element models of the tibia		Impact of uncertainties in inlet conditions on the predictions of hemodynamic simulations in			Verification, validation and uncertainty		
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01507stance and sideways fall orientations on the same specimen A biofidelic sideways fall simulator could aid in the design and testing of prophylactic femoral augmentation strategiesMorteza AminiOral PresentationBone fracture mechanics (in vitro and in vivo) 4Wednesday 11th July, 17:10 -18:40Wicklow Hall 101508augmentation strategiesAnita FungOral PresentationBone fracture mechanics (in vitro and in vivo) 4Wednesday 11th July, 17:10 -18:40Wicklow Hall 101509Femoral biomechanics via CT-based finite element models with nonlinear constitutive response Supplemental dorsal locked plating enhances stability of unstable distal radius fractures bone distal radius fractures Boyko GueorguievOral Presentation Oral Presentation Oral PresentationBone fracture mechanics (in vitro and in vivo) 4Wednesday 11th July, 17:10 -18:40Wicklow Hall 101510Supplemental dorsal locked plating enhances stability of unstable distal radius fractures Mechanical analysis of mini-invasive bone augmentation to primary stabilization of the Finite element models of the tibia with realistic boundary constraints predict bending Finite element models of the tibia with realistic boundary constraints predict bending Finite element models of the tibia with realistic boundary constraints predict bending Finite element models of the tibia with in-vivo measurementIfaz HaiderOral Presentation Cral PresentationBone fracture mechanics (in vitro and in vivo) 4Wednesday 11th July, 17:10 -18:40Wicklow Hall 101512Geromations consistent with in-vivo measurementIfaz HaiderOral PresentationBone fracture mechanics (in vitro and in vivo) 4Wednesday 11th July, 17:10 -18:40W	01506	decomposition	Sofia Guzzetti	Oral Presentation	quantification in cardiovascular CFD	Wednesday 11th July, 17:10 -18:40	Liffey MR3
01507stance and sideways fall orientations on the same specimen A biofidelic sideways fall simulator could aid in the design and testing of prophylactic femoral augmentation strategiesMorteza AminiOral PresentationBone fracture mechanics (in vitro and in vivo) 4Wednesday 11th July, 17:10 -18:40Wicklow Hall 101508augmentation strategiesAnita FungOral PresentationBone fracture mechanics (in vitro and in vivo) 4Wednesday 11th July, 17:10 -18:40Wicklow Hall 101509Femoral biomechanics via CT-based finite element models with nonlinear constitutive response Supplemental dorsal locked plating enhances stability of unstable distal radius fractures Mechanical analysis of mini-invasive bone augmentation to primary stabilization of the Finite element models of the tibia plateau fractures: balloon vs bone tamp Finite element models of the tibia with realistic boundary constraints predict bending HaiderOral PresentationBone fracture mechanics (in vitro and in vivo) 4Wednesday 11th July, 17:10 -18:40Wicklow Hall 101510Supplemental dorsal locked plating enhances stability of unstable distal radius fractures balloon vs bone tamp Finite element models of the tibia with realistic boundary constraints predict bending Goral PresentationOral Presentation PresentationBone fracture mechanics (in vitro and in vivo) 4Wednesday 11th July, 17:10 -18:40Wicklow Hall 101511Osteosynthesis of the tibia with realistic boundary constraints predict bending Finite element models of the tibia with realistic boundary constraints predict bending Goral PresentationBone fracture mechanics (in vitro and in vivo) 4Wednesday 11th July, 17:10 -18:40Wicklow Hall 101512 <td></td> <td>An enhanced biomechanical femoral test setup to study multiple loading configurations in</td> <td></td> <td></td> <td></td> <td></td> <td></td>		An enhanced biomechanical femoral test setup to study multiple loading configurations in					
O1509 Femoral biomechanics via CT-based finite element models with nonlinear constitutive response Cristina Falcinelli Oral Presentation Bone fracture mechanics (in vitro and in vivo) 4 Wednesday 11th July, 17:10 - 18:40 Wicklow Hall 1 O1510 Supplemental dorsal locked plating enhances stability of unstable distal radius fractures Boyko Gueorguiev Oral Presentation Bone fracture mechanics (in vitro and in vivo) 4 Wednesday 11th July, 17:10 - 18:40 Wicklow Hall 1 O1511 Osceosynthesis of tibial plateau fractures: balloon vs bone tamp Tanguy Vendeuvre Oral Presentation Bone fracture mechanics (in vitro and in vivo) 4 Wednesday 11th July, 17:10 - 18:40 Wicklow Hall 1 O1512 deformations consistent with realistic boundary constraints predict bending Ifaz Haider Oral Presentation Bone fracture mechanics (in vitro and in vivo) 4 Wednesday 11th July, 17:10 - 18:40 Wicklow Hall 1	01507	stance and sideways fall orientations on the same specimen	Morteza Amini	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 4	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 1
O1510 Supplemental dorsal locked plating enhances stability of unstable distal radius fractures Boyko Gueorguiev Oral Presentation Bone fracture mechanics (in vitro and in vivo) 4 Wednesday 11th July, 17:10 -18:40 Wicklow Hall 1 O1510 osteosynthesis of tibial plateau fractures: balloon vs bone tamp Tanguy Vendeuvre Oral Presentation Bone fracture mechanics (in vitro and in vivo) 4 Wednesday 11th July, 17:10 -18:40 Wicklow Hall 1 O1511 osteosynthesis of tibial plateau fractures: balloon vs bone tamp Tanguy Vendeuvre Oral Presentation Bone fracture mechanics (in vitro and in vivo) 4 Wednesday 11th July, 17:10 -18:40 Wicklow Hall 1 O1512 deformations consistent with in-vivo measurement Ifaz Haider Oral Presentation Bone fracture mechanics (in vitro and in vivo) 4 Wednesday 11th July, 17:10 -18:40 Wicklow Hall 1	01508	augmentation strategies	Anita Fung	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 4	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 1
Mechanical analysis of mini-invasive bone augmentation to primary stabilization of the 01511 osteosynthesis of tibial plateau fractures: balloon vs bone tamp Tanguy Vendeuvre Oral Presentation Bone fracture mechanics (in vitro and in vivo) 4 Wednesday 11th July, 17:10-18:40 Wicklow Hall 1 Finite element models of the tibia with realistic boundary constraints predict bending 01512 deformations consistent with in-vivo measurement Ifaz Haider Oral Presentation Bone fracture mechanics (in vitro and in vivo) 4 Wednesday 11th July, 17:10-18:40 Wicklow Hall 1 Wicklow Hall 1 01512 deformations consistent with in-vivo measurement Ifaz Haider Oral Presentation							
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O1512 deformations consistent with in-vivo measurement Ifaz Haider Oral Presentation Bone fracture mechanics (in vitro and in vivo) 4 Wednesday 11th July, 17:10-18:40 Wicklow Hall 1	01511	, , , , , , , , , , , , , , , , , , , ,	Tanguy Vendeuvre	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 4	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 1
01513 A multicale and noncelastic modeling of contral hone based on the homogenization technique Fléonore Perrin Oral Descentation Rone fracture mechanics (in vitro and in vitro) 4 Wednesday 11th 11th 12:10 12:40 Wickley Hall 1	01512		Ifaz Haider	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 4	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 1
	01513	A multiscale and poroelastic modeling of cortical bone based on the homogenization technique		Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 4	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 1
O1514 Analysis of crack initiation and propagation in bone tissues using extended DIC method Prasanth Bokam Oral Presentation Bone fracture mechanics (in vitro and in vivo) 4 Wednesday 11th July, 17:10-18:40 Wicklow Hall 1 Digital image correlation and acoustic emission used simultaneously to determine strain	01514		Prasanth Bokam	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 4	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 1
O1515 Dista image concentration and account of an account of a strain of a str	01515		Athanassios Tsirigotis	Oral Presentation	Bone fracture mechanics (in vitro and in vivo) 4	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 1
01516 Dynamic remodeling of a biomaterial niche alters hematopoietic stem cell lineage specification Brendan Harley Invited Speaker Bone marrow properties and mechanobiology Wednesday 11th July, 17:10-18:40 Wicklow Hall 2A MSCs and bone vs marrow fat: Coordinated increase of nuclear tension and lamin-A with matrix	01516		-	Invited Speaker	Bone marrow properties and mechanobiology	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 2A
01517 stiffness outcompetes lamin-B receptor which favors soft tissue phenotypes Dennis Discher Invited Speaker Bone marrow properties and mechanobiology Wednesday 11th July, 17:10-18:40 Wicklow Hall 2A A validated fluid-structure interaction model of trabecular bone and bone marrow under	01517		Dennis Discher	Invited Speaker	Bone marrow properties and mechanobiology	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 2A
01518 compression Evelyn Frank Oral Presentation Bone marrow properties and mechanobiology Wednesday 11th July, 17:10-18:40 Wicklow Hall 2A Multiscale Modelling of the Mechanical Environment of Trabecular Bone Marrow under Low-	01518	compression	Evelyn Frank	Oral Presentation	Bone marrow properties and mechanobiology	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 2A
01519 Magnitude High Frequency Vibration Ted Vaughan Oral Presentation Bone marrow properties and mechanobiology Wednesday 11th July, 17:10-18:40 Wicklow Hall 2A		Magnitude High Frequency Vibration	0	Oral Presentation	Bone marrow properties and mechanobiology	Wednesday 11th July, 17:10 -18:40	
01520 In vivo engineering of functional bone marrow tissues Shyni Varghese Oral Presentation Bone marrow properties and mechanobiology Wednesday 11th July, 17:10 - 18:40 Wicklow Hall 2A Role of ATP signaling in primary cilium-mediated mechanotransduction in human skeletal stem Wicklow Hall 2A Wicklow Hall 2A	01520		Shyni Varghese	Oral Presentation	Bone marrow properties and mechanobiology	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 2A
01521 cells Mathieu Riffault Oral Presentation Bone marrow properties and mechanobiology Wednesday 11th July, 17:10-18:40 Wicklow Hall 2A	01521	cells	Mathieu Riffault	Oral Presentation	Bone marrow properties and mechanobiology	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 2A

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01522	Mechanically Activated Osteocyte-derived Extracellular Vesicles Promote Osteogenic Differentiation of human Skeletal Stem Cells.	lan Woods	Oral Presentation	Bone marrow properties and mechanobiology	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 2A
01523	Harnessing helpful heterogenity: the new picture of hard-to-soft tissue attachment, and what it means for treatment and surgical repair	Guy Genin	Invited Speaker	Tendon, ligament and enthesis biomechanics 2	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 2B
01525	Adhesive tendon-to-bone repairs	Victor Birman	Oral Presentation	Tendon, ligament and enthesis biomechanics 2 Tendon, ligament and enthesis biomechanics 2	Wednesday 11th July, 17:10 -18:40 Wednesday 11th July, 17:10 -18:40	Wicklow Hall 2B
01524	Microstructural properties of the ulnar collateral ligament are bundle specific and align with	Victor birnan	Orai Presentation	rendon, ligament and entriesis biomethanics z	weahesday 11(1)(1), 17.10-18.40	
01525	differences in mechanical properties	Ryan Castile	Oral Presentation	Tendon, ligament and enthesis biomechanics 2	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 2B
01526	An indentation-based approach to determine the elastic constants of tendon	Amy Wagoner Johnson	Oral Presentation	Tendon, ligament and enthesis biomechanics 2	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 2B
	The mechanobiological response of healthy rat Achilles tendon can be captured with a fibre-					
01527	reinforced poro-visco-hyper-elastic constitutive model	Thomas Notermans	Oral Presentation	Tendon, ligament and enthesis biomechanics 2	Wednesday 11th July, 17:10 -18:40	Wicklow Hall 2B
O1528 O1529	In Vitro Osmotic Swelling of the Periodontal Ligament Effect of tendon remodeling on supraspinatus tear propagation	David Nedrelow Gerald A Ferrer	Oral Presentation Oral Presentation	Tendon, ligament and enthesis biomechanics 2 Tendon, ligament and enthesis biomechanics 2	Wednesday 11th July, 17:10 -18:40 Wednesday 11th July, 17:10 -18:40	Wicklow Hall 2B Wicklow Hall 2B
01525	The effect of anterior cruciate ligament shear properties on whole-knee biomechanics	Ryan Rosario	Oral Presentation	Tendon, ligament and enthesis biomechanics 2	Wednesday 11th July, 17:10 -18:40 Wednesday 11th July, 17:10 -18:40	Wicklow Hall 2B
				Multiscale biomechanics and modeling of		
01531	A model to describe the heterogeneous mechanical behaviour of human skin	C.W.J. Oomens	Invited Speaker	engineered tissues	Wednesday 11th July, 17:10 -18:40	Ecocem
04533	On the relationship between fiber-level and network-level fatigue behavior of collagen networks	V/11 D	In the differentian	Multiscale biomechanics and modeling of	We do and a 14th July 17:10, 10:10	F
01532	networks Changes in scaffold permeability during bone tissue engineering in perfusion bioreactors	V.H. Barocas	Invited Speaker	engineered tissues Multiscale biomechanics and modeling of	Wednesday 11th July, 17:10 -18:40	Ecocem
01533	considerably affect cell wall shear stresses	Feihu Zhao	Oral Presentation	engineered tissues	Wednesday 11th July, 17:10 -18:40	Ecocem
	The local structure-function relationship of human tissue engineered cartilage provides a new			Multiscale biomechanics and modeling of		
01534	method of determining construct maturity	Jill Middendorf	Oral Presentation	engineered tissues	Wednesday 11th July, 17:10 -18:40	Ecocem
	Multi-scale computational modelling for predicting mechano-biological behaviour of 3D skeletal			Multiscale biomechanics and modeling of		
01535	muscle collagen constructs	Rallia-Iliana Velliou	Oral Presentation	engineered tissues	Wednesday 11th July, 17:10 -18:40	Ecocem
04526	The role of dynamic mechanical stimuli on extracellular matrix synthesis and stiffness in		Ovel Descentation	Multiscale biomechanics and modeling of	We do and a 14th July 17:10, 10:10	F
01536	cardiovascular tissue engineering Modeling the spatiotemporal evolution of stem cell niches during neotissue growth on triply	Joao S. Soares	Oral Presentation	engineered tissues Multiscale biomechanics and modeling of	Wednesday 11th July, 17:10 -18:40	Ecocem
01537	periodic minimal surfaces in perfusion bioreactors	Liesbet Geris	Oral Presentation	engineered tissues	Wednesday 11th July, 17:10 -18:40	Ecocem
	Patient-specific design and development of occluder devices for Patent Ductus Arteriosus and					
01538	its preliminary in-vitro and clinical testing	Ramses Galaz	Oral Presentation	Stenting within the cardiovascular system 2	Wednesday 11th July, 17:10 -18:40	Wicklow MR1
O1539	An investigation into stent induced collagen fibre reorientation; experimental observations and in silico modelling	David Nolan	Oral Presentation	Stenting within the cardiovascular system 2	Wednesday 11th July, 17:10 -18:40	Wicklow MR1
01539	Influence of the plaque composition on mechanical performance of a carotid stent	Aike Qiao	Oral Presentation	Stenting within the cardiovascular system 2 Stenting within the cardiovascular system 2	Wednesday 11th July, 17:10 -18:40 Wednesday 11th July, 17:10 -18:40	Wicklow MR1
01340	Patient-specific computer simulation to elucidate the role of contact pressure in the	Aite Qido	orarresentation	Stending within the cardiovascular system 2	weatestay Harsay, 17.10 10.40	WICKIOW WILL
	development of new conduction abnormalities after catheter based implantation of a self-					
01541	expanding aortic valve	Giorgia Rocatello	Oral Presentation	Stenting within the cardiovascular system 2	Wednesday 11th July, 17:10 -18:40	Wicklow MR1
	Experimental analysis of AAA treatment by multi-layer stent and fate of abdominal aortic					
01542	branches	Simon Tupin	Oral Presentation	Stenting within the cardiovascular system 2	Wednesday 11th July, 17:10 -18:40	Wicklow MR1
01543	Establishment of a diffeomorphic mapping based reconstruction algorithm utilizing OCT and microCT to characterize the 3D deformed in vivo stent geometry	Lucas Timmins	Oral Presentation	Stenting within the cardiovascular system 2	Wednesday 11th July, 17:10 -18:40	Wicklow MR1
01545	microch to characterize the 5D deformed in vivo sterit geometry	Javier Escuer, Martina Cebollero,	Oral Presentation	Stenting within the cardiovascular system 2	Wednesday 11(1) July, 17.10-18.40	
	Computational modelling of the effect of mechanical expansion on drug delivery from	Estefanía Peña, Sean McGinty,				
01544	endovascular devices	Miguel Ángel Martínez	Oral Presentation	Stenting within the cardiovascular system 2	Wednesday 11th July, 17:10 -18:40	Wicklow MR1
	Computational design and physical process optimisation can improve the design of poly(L-lactic					
01545	acid) bioresorbable stents	Ross Blair	Oral Presentation	Stenting within the cardiovascular system 2	Wednesday 11th July, 17:10 -18:40	Wicklow MR1
	Flow diverter treatment outcome of intracranial aneurysms is associated with blood flow					
01546	modifications: In silico computational analysis of clinical cases	Robert Damiano	Oral Presentation	Stenting within the cardiovascular system 2	Wednesday 11th July, 17:10 -18:40	Wicklow MR1
				Nano- and micro-mechanics of biological tissue,		
	Harmonic waves in anisotropic poroelastic and viscoelastic anisotropic tissues: Magnetic			biomimetic and bioinspired materials and systems		
01547	Resonance Elastography and Dynamic Nanoindentation	Pasquale Vena	Invited Speaker	1	Wednesday 11th July, 17:10 -18:40	Wicklow MR2
	The second se			Nano- and micro-mechanics of biological tissue,		
01548	Micromechanics of collagen rich-tissues and nanomechanics of individual collagen fibrils as a function of hydrotion, cross linking, and and tissue function	Philipp Thurpor	Invited Speaker	biomimetic and bioinspired materials and systems		Wicklow MP2
01548	function of hydration, cross-linking, age and tissue function	Philipp Thurner	Invited Speaker	1 Nano- and micro-mechanics of biological tissue,	Wednesday 11th July, 17:10 -18:40	Wicklow MR2
				biomimetic and bioinspired materials and systems		
01549	A novel finite element model of bone lamellae including all ultrastructural hierarchies	Xiaodu Wang	Oral Presentation	1	Wednesday 11th July, 17:10 -18:40	Wicklow MR2
	u	-		Nano- and micro-mechanics of biological tissue,		
				biomimetic and bioinspired materials and systems		
01550	Cracking Osteons From Anatomic Specimens: An image-guided assessment of failure mode	Caitlyn Collins	Oral Presentation	1	Wednesday 11th July, 17:10 -18:40	Wicklow MR2

01551	Nanoscale compressive deformation mechanisms and yield properties of hydrated lamellar bone	Jakob Schwiedrzik	Oral Presentation	Nano- and micro-mechanics of biological tissue, biomimetic and bioinspired materials and systems 1	Wednesday 11th July, 17:10 -18:40	Wicklow MR2
				Nano- and micro-mechanics of biological tissue, biomimetic and bioinspired materials and systems		
01552	Multiscale compressive behaviour of uniaxially aligned mineralised collagen fibres	Alexander Groetsch	Oral Presentation	1 Nano- and micro-mechanics of biological tissue, biomimetic and bioinspired materials and systems	Wednesday 11th July, 17:10 -18:40	Wicklow MR2
01553	Impact of Viscous Phenomena in Nanoindentation Tests of Dental Cement Composites	Gianpaolo Serino	Oral Presentation	1	Wednesday 11th July, 17:10 -18:40	Wicklow MR2
01554	Mechano-Active Materials to Direct Stem Cell Differentiation A macro-micro modeling approach to determine in-situ heart valve interstitial cell contractile	Robert Mauck	Invited Speaker	Mechanotransduction in engineered tissue	Wednesday 11th July, 17:10 -18:40	Wicklow MR4
01555	behaviors in native and synthetic environments Microfabricated kidney-on-chip platform recapitulates spatial biomechanical heterogeneity of	Michael Sacks	Invited Speaker	Mechanotransduction in engineered tissue	Wednesday 11th July, 17:10 -18:40	Wicklow MR4
01556	human podocytes in vitro	Evren Azeloglu	Oral Presentation	Mechanotransduction in engineered tissue	Wednesday 11th July, 17:10 -18:40	Wicklow MR4
01557	Two-dimensional culture expansion for regeneration therapies induce epigenetic modifications influencing cell fate	Adrienne Scott	Oral Presentation	Mechanotransduction in engineered tissue	Wednesday 11th July, 17:10 -18:40	Wicklow MR4
01558	Effects of static compression on lipid accumulation and gene expression in 3T3-L1 adipocytes	Anabela Areias	Oral Presentation	Mechanotransduction in engineered tissue	Wednesday 11th July, 17:10 -18:40	Wicklow MR4
01559	Theoretical analysis of stress distribution and cell polarization surrounding a model wound	Assaf Zemel	Oral Presentation	Mechanotransduction in engineered tissue	Wednesday 11th July, 17:10 -18:40	Wicklow MR4
01560	, , , , , , , , , , , , , , , , , , , ,	Kris Dahl	Oral Presentation	5	Wednesday 11th July, 17:10 -18:40	Wicklow MR4