

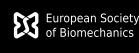
# Congress Programme



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

[www.wcb2018.com](http://www.wcb2018.com)

In conjunction with



Hosted by



Sunday 8th of July 2018

Program Code	Title	Presenting	Decision	Final session	Session Time	Room
O0001	Where to step? Mediolateral foot placement for balance control in young and old adults	Jaap van Dieën	Invited Speaker	Locomotion and falling in the elderly 1	Sunday 8th July, 14:30 - 16:00	Auditorium
O0002	Human Movement Variability and Falls in the Elderly	Nick Stergiou	Invited Speaker	Locomotion and falling in the elderly 1	Sunday 8th July, 14:30 - 16:00	Auditorium
O0003	Influence of head orientation on gait stability in young adults, dancers and older adults	Rina Magnani	Oral Presentation	Locomotion and falling in the elderly 1	Sunday 8th July, 14:30 - 16:00	Auditorium
O0004	Gait variability in patients with COPD during a self-paced 6-minute walk test	Wai-Yan Liu	Oral Presentation	Locomotion and falling in the elderly 1	Sunday 8th July, 14:30 - 16:00	Auditorium
O0005	Healthy older adults demonstrated a greater dual task interference effect compared to young adults when walking downhill and performing a complex audiospatial task.	Daniel Thomson	Oral Presentation	Locomotion and falling in the elderly 1	Sunday 8th July, 14:30 - 16:00	Auditorium
O0006	Using zero-moment point to predict single versus multiple step recovery from forward loss of balance	Nicolas Vivaldi	Oral Presentation	Locomotion and falling in the elderly 1	Sunday 8th July, 14:30 - 16:00	Auditorium
O0008	A Proposed Road Map for Studying Location- and Severity-Specific Brain Injury	King Yang	Invited Speaker	Brain injury mechanics 1	Sunday 8th July, 14:30 - 16:00	Liffey Hall 1
O0009	Brains, Strains, and Automobiles: Concussion Biomechanics and Instrumentation	Stefan Duma	Invited Speaker	Brain injury mechanics 1	Sunday 8th July, 14:30 - 16:00	Liffey Hall 1
O0010	Characteristics of Head Impact Exposure in Concussed and Non-Concussed College American Football Athletes	Brian Stemper	Oral Presentation	Brain injury mechanics 1	Sunday 8th July, 14:30 - 16:00	Liffey Hall 1
O0011	Towards a white matter structural network-based concussion predictor	Songbai Ji	Oral Presentation	Brain injury mechanics 1	Sunday 8th July, 14:30 - 16:00	Liffey Hall 1
O0012	High-Speed Biplane X-ray Head Impact Experiments in the Göttingen Minipig	Elizabeth McNeil	Oral Presentation	Brain injury mechanics 1	Sunday 8th July, 14:30 - 16:00	Liffey Hall 1
O0013	Characterization of in vivo 3D skull-brain motion during multi-directional dynamic head vibration using magnetic resonance elastography	Armando Manduca	Oral Presentation	Brain injury mechanics 1	Sunday 8th July, 14:30 - 16:00	Liffey Hall 1
O0014	Nonlinear Dynamical Behavior of Deep White Matter in the Human Brain	Efe Ozkaya	Oral Presentation	Brain injury mechanics 1	Sunday 8th July, 14:30 - 16:00	Liffey Hall 1
O0015	Fluid-structure interaction in cardiovascular biomechanics: yes (because) we can ?	Patrick Segers	Invited Speaker	Biomechanics of cardiovascular tissues 1	Sunday 8th July, 14:30 - 16:00	Liffey Hall 2
O0016	Towards patient-specific fluid solid growth simulations for pediatric applications	Alison Marsden	Invited Speaker	Biomechanics of cardiovascular tissues 1	Sunday 8th July, 14:30 - 16:00	Liffey Hall 2
O0017	Unravelling the aortic microstructure: synchrotron-based quasi-static pressure inflation of the mouse carotid artery	Bram Trachet	Oral Presentation	Biomechanics of cardiovascular tissues 1	Sunday 8th July, 14:30 - 16:00	Liffey Hall 2
O0018	Microscopic deformation of the aorta during pressurization based on SHG and two-photon microscopy	Shukei Sugita	Oral Presentation	Biomechanics of cardiovascular tissues 1	Sunday 8th July, 14:30 - 16:00	Liffey Hall 2
O0019	Isotropic material properties of embryonic aortic arches from OCT guided micro-vascular pressure measurements	Gürsan ÇOBAN	Oral Presentation	Biomechanics of cardiovascular tissues 1	Sunday 8th July, 14:30 - 16:00	Liffey Hall 2
O0020	Application of Digital Image Correlation to determine the multiaxial mechanical properties of ascending, descending and abdominal porcine aorta.	Juan A Peña	Oral Presentation	Biomechanics of cardiovascular tissues 1	Sunday 8th July, 14:30 - 16:00	Liffey Hall 2
O0021	Identification of regional mechanical properties in murine thoracic aortic aneurysms	Matthew R. Bersi	Oral Presentation	Biomechanics of cardiovascular tissues 1	Sunday 8th July, 14:30 - 16:00	Liffey Hall 2
O0022	Obtaining biomechanical properties of corneal tissue in-vivo using a non-contact method	Ahmed Elsheikh	Invited Speaker	Ocular biomechanics of aging and disease	Sunday 8th July, 14:30 - 16:00	Liffey MR1
O0023	The relationship between tensile strain and connective tissue architecture in the optic nerve head (ONH) of human eyes	Crawford Downs	Invited Speaker	Ocular biomechanics of aging and disease	Sunday 8th July, 14:30 - 16:00	Liffey MR1
O0024	A Preliminary experimental study on creep characteristics of cornea after refractive surgery	Haixia Zhang, Di Zhang, Xiao Qin, Lin Li	Oral Presentation	Ocular biomechanics of aging and disease	Sunday 8th July, 14:30 - 16:00	Liffey MR1
O0025	Effect of Intraocular Pressure and Cerebrospinal Fluid Pressure Pulsations on Lamina Cribrosa Deformations	Yuejiao Jin	Oral Presentation	Ocular biomechanics of aging and disease	Sunday 8th July, 14:30 - 16:00	Liffey MR1
O0026	The role of endogenous proteins on the interfacial properties between Silicone oil and aqueous solution in vitrectomized eyes	Irene Nepita	Oral Presentation	Ocular biomechanics of aging and disease	Sunday 8th July, 14:30 - 16:00	Liffey MR1
O0027	Lamina cribrosa strain in racioethnic populations at higher risk for primary open angle glaucoma	Jonathan Vande Geest	Oral Presentation	Ocular biomechanics of aging and disease	Sunday 8th July, 14:30 - 16:00	Liffey MR1
O0028	In vitro and in silico modeling of the bio-chemo-mechanical aging of the ocular lens	Matthew Reilly	Oral Presentation	Ocular biomechanics of aging and disease	Sunday 8th July, 14:30 - 16:00	Liffey MR1
O0029	Operating length and velocity of vastus lateralis muscle in human jumping and steady state locomotion	Adamantios Arampatzis	Invited Speaker	Skeletal muscle properties and function during human movement (in vivo muscle properties)	Sunday 8th July, 14:30 - 16:00	Liffey MR2
O0030	Muscle shape changes and the role of intramuscular springs.	Thomas Roberts	Invited Speaker	Skeletal muscle properties and function during human movement (in vivo muscle properties)	Sunday 8th July, 14:30 - 16:00	Liffey MR2
O0031	Rate of force development during isometric contraction and induced pre-activated stretch conditions in the human adductor pollicis muscle	Elske Kranenburg	Oral Presentation	Skeletal muscle properties and function during human movement (in vivo muscle properties)	Sunday 8th July, 14:30 - 16:00	Liffey MR2
O0032	Three-dimensional architecture of the whole human soleus muscle in vivo	Bart Bolsterlee	Oral Presentation	Skeletal muscle properties and function during human movement (in vivo muscle properties)	Sunday 8th July, 14:30 - 16:00	Liffey MR2

O0033	The effect of habitual rearfoot and mid-/forefoot striking on muscle fascicle and tendon behavior during running An updated "living" Hill-based muscle model: 1. Mapping muscle protein families to myo-parameters, including adjustments for pathologically dysfunctional muscle tissue	Wannes Swinnen	Oral Presentation	Skeletal muscle properties and function during human movement (in vivo muscle properties)	Sunday 8th July, 14:30 - 16:00	Liffey MR2
O0034	Intramuscular Pressure of Tibialis Anterior Correlates with Ankle Torque but does not Follow Length-Tension Relationship	Jack Winters	Oral Presentation	Skeletal muscle properties and function during human movement (in vivo muscle properties)	Sunday 8th July, 14:30 - 16:00	Liffey MR2
O0035		Filiz Ates	Oral Presentation	Skeletal muscle properties and function during human movement (in vivo muscle properties)	Sunday 8th July, 14:30 - 16:00	Liffey MR2
O0036	Focal Therapies: Evolving Thermal, Chemical and Electrical Approaches	John Bischof	Invited Speaker	Hyperthermia and heat-mediated transport	Sunday 8th July, 14:30 - 16:00	Liffey MR3
O0037	Minimal invasive thermo-immune therapy of metastatic cancer	Lisa Xu	Invited Speaker	Hyperthermia and heat-mediated transport	Sunday 8th July, 14:30 - 16:00	Liffey MR3
O0038	Molecular Hyperthermia to Manipulate Individual Proteins: Feasibility and Non-Arrhenius Kinetics	Zhenpeng Qin	Oral Presentation	Hyperthermia and heat-mediated transport	Sunday 8th July, 14:30 - 16:00	Liffey MR3
O0039	Nanoparticle Redistribution in PC3 Tumors Induced by Local Heating in Magnetic Nanoparticle Hyperthermia for Cancer Treatment -- In Vivo Experimental Study	Liang Zhu	Oral Presentation	Hyperthermia and heat-mediated transport	Sunday 8th July, 14:30 - 16:00	Liffey MR3
O0040	Tissue thermal properties and impact on thermoregulation	A. Colleen Crouch	Oral Presentation	Hyperthermia and heat-mediated transport	Sunday 8th July, 14:30 - 16:00	Liffey MR3
O0043	Big Data and machine learning to create physics-based personalised computational neuromusculoskeletal models	David Lloyd	Invited Speaker	Population based approaches to computational musculoskeletal modelling	Sunday 8th July, 14:30 - 16:00	Ecocem
O0044	Form and Function: The Gait Adaptation of Chinese Bound Foot	Yaodong Gu	Invited Speaker	Population based approaches to computational musculoskeletal modelling	Sunday 8th July, 14:30 - 16:00	Ecocem
O0045	Virtual Preclinical Evaluation of Cementless Femoral Stems for Robustness to Patient and Surgical Variation	Rami M A Al-Dirini	Oral Presentation	Population based approaches to computational musculoskeletal modelling	Sunday 8th July, 14:30 - 16:00	Ecocem
O0046	Machine learning surrogate model for predicting hip fracture from 2D X-ray	Dharshini Sreenivasan	Oral Presentation	Population based approaches to computational musculoskeletal modelling	Sunday 8th July, 14:30 - 16:00	Ecocem
O0047	Population-Based Framework to Assess THA Dislocation Considering Patient and Surgical Variation	Casey Myers	Oral Presentation	Population based approaches to computational musculoskeletal modelling	Sunday 8th July, 14:30 - 16:00	Ecocem
O0048	The Morphology of the Human Mandible: A Computational Modelling Study	Ravin Vallabh	Oral Presentation	Population based approaches to computational musculoskeletal modelling	Sunday 8th July, 14:30 - 16:00	Ecocem
O0049	Relating parametric prosthetic socket design to the biomechanical response of a transtibial residual limb by surrogate modelling	Joshua Steer	Oral Presentation	Population based approaches to computational musculoskeletal modelling	Sunday 8th July, 14:30 - 16:00	Ecocem
O0050	Do Pre-Clinical Tools for Evaluation of TKR Mechanics Predict in vivo Performance?	Paul Rullkoetter	Invited Speaker	Computational joint mechanics 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 2A
O0051	Fibril-reinforced poroelastic finite element models of knee joint mechanics and adaptation	Rami Korhonen	Invited Speaker	Computational joint mechanics 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 2A
O0052	Validation of a subject-specific musculo-skeletal model of the ankle joint complex	Sorin Siegler	Oral Presentation	Computational joint mechanics 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 2A
O0053	Customized Design of Total Knee Implant and Its Motion Analysis Based on Oxford Rig	Linjie Wang	Oral Presentation	Computational joint mechanics 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 2A
O0054	Effect of corrective surgery on lower limb mechanics in patients with crouch gait	Adelle Milholland	Oral Presentation	Computational joint mechanics 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 2A
O0055	Development and validation of subject-specific paediatric rigid multibody knee kinematic models with ligamentous constraints	Martina Barzan	Oral Presentation	Computational joint mechanics 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 2A
O0056	Determination of Pre-tension Forces on Implanted ACL Graft in Outside-in Reconstruction Surgery through Multi-Flexible Body Dynamic Analysis	Byeongchan Cho	Oral Presentation	Computational joint mechanics 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 2A
O0057	Tendon enthesis development and regeneration	Stavros Thomopoulos	Invited Speaker	Mechanics of musculoskeletal growth and adaptation 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 2B
O0058	Role of Estrogen Signaling in Skeletal Mechanobiology	Marjolein van der Meulen	Invited Speaker	Mechanics of musculoskeletal growth and adaptation 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 2B
O0059	Visualizing joint morphogenesis and mechanobiology in the regenerating axolotl salamander limb	Johanna Farkas	Oral Presentation	Mechanics of musculoskeletal growth and adaptation 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 2B
O0060	Effects of Reproduction and Lactation on Maternal Bone Mechano-Sensitivity	X. Sherry Liu	Oral Presentation	Mechanics of musculoskeletal growth and adaptation 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 2B
O0061	Age at onset of walking in infancy is associated with hip and spine shape in early old age	Alex Ireland	Oral Presentation	Mechanics of musculoskeletal growth and adaptation 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 2B
O0062	Reduced Muscle Stem Cell Number Hinders Sarcomere Addition and Contracture Recovery	Richard Lieber	Oral Presentation	Mechanics of musculoskeletal growth and adaptation 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 2B

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O0063	A model to study the role of the vasculature and vascular-specific mediators with ageing for degenerative bone diseases	Philipp Schneider, Claire Clarkin	Oral Presentation	Mechanics of musculoskeletal growth and adaptation 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 2B
O0064	Coordinated oscillations of confined epithelial tissues.	Joseph d'Alessandro	Invited Speaker	Mechanics of cell motility 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 1
O0066	Making Characters by Gathering Bacillus subtilis Using Modified Inkjet Printer	Akitoshi Ito	Oral Presentation	Mechanics of cell motility 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 1
O0067	Collective cell migration: intercellular forces coordination by integrin $\alpha 5 \beta 1$	Jacopo Di Russo	Oral Presentation	Mechanics of cell motility 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 1
O0068	Transition between actin-driven and water-driven cell migration depends on the external hydraulic resistance	Sean Sun	Oral Presentation	Mechanics of cell motility 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 1
O0069	The force generated by the actin-myosin assembly of a living intracellular parasite	William Guilford	Oral Presentation	Mechanics of cell motility 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 1
O0070	Investigation of the mechanics of the cell membrane for insertion into a living cell during tip-cell interactions	Na Fan	Oral Presentation	Mechanics of cell motility 1	Sunday 8th July, 14:30 - 16:00	Wicklow Hall 1

O0071	Computational modeling inspired design enables long term in vivo functionality of living engineered heart valves	Frank Baajens	Invited Speaker	Biomechanics of heart valve tissue engineering	Sunday 8th July, 14:30 - 16:00	Wicklow MR1
O0072	Using simulations to find the achievable range of heart valve tissue emulating behaviors	Michael Sacks	Invited Speaker	Biomechanics of heart valve tissue engineering	Sunday 8th July, 14:30 - 16:00	Wicklow MR1
O0073	Biologically-engineered Pediatric Tri-tube Valve with Durable Commissures	Robert Tranquillo	Oral Presentation	Biomechanics of heart valve tissue engineering	Sunday 8th July, 14:30 - 16:00	Wicklow MR1
O0074	Title: Biologically-inspired heart valve leaflets with outstanding anisotropic and native tissue-like mechanical properties by melt electrospinning writing	Navid Toosi Saïdy	Oral Presentation	Biomechanics of heart valve tissue engineering	Sunday 8th July, 14:30 - 16:00	Wicklow MR1
O0075	Mechanical and Biological Performance of a 3D Bioprinted Collagen Heart Valve	Adam Feinberg	Oral Presentation	Biomechanics of heart valve tissue engineering	Sunday 8th July, 14:30 - 16:00	Wicklow MR1
O0076	A pulmonary heart valve engineered from natural biomaterials	Claire Brougham	Oral Presentation	Biomechanics of heart valve tissue engineering	Sunday 8th July, 14:30 - 16:00	Wicklow MR1
O0077	Scaffold Microstructure dictates Macrophage-driven Biomaterial Degradation – Implications for in situ Cardiovascular Tissue Engineering	Tamar Wissing	Oral Presentation	Biomechanics of heart valve tissue engineering	Sunday 8th July, 14:30 - 16:00	Wicklow MR1
O0078	Integration of statistical shape models of the knee with finite element simulations	Clare Fitzpatrick	Invited Speaker	Deformable (statistical and analytical) shape and appearance models in biomechanics 1	Sunday 8th July, 14:30 - 16:00	Wicklow MR2
O0079	Entering the statistical domain: Do we understand the risk and liabilities of using Deformable Statistical Shapes in biomechanics?	Bhushan Borotikar, Tinashe Mutsvangwa	Invited Speaker	Deformable (statistical and analytical) shape and appearance models in biomechanics 1	Sunday 8th July, 14:30 - 16:00	Wicklow MR2
O0080	The Effect of Scapula Shape on Function of the Rotator Cuff Muscles	Erin C.S. Lee	Oral Presentation	Deformable (statistical and analytical) shape and appearance models in biomechanics 1	Sunday 8th July, 14:30 - 16:00	Wicklow MR2
O0081	Right-to-left shape differences in the radius.	Desney Greybe	Oral Presentation	Deformable (statistical and analytical) shape and appearance models in biomechanics 1	Sunday 8th July, 14:30 - 16:00	Wicklow MR2
O0082	Understanding Vertebral Variation using Principal Component Analysis and Statistical Shape and Appearance Models	Gavin Day	Oral Presentation	Deformable (statistical and analytical) shape and appearance models in biomechanics 1	Sunday 8th July, 14:30 - 16:00	Wicklow MR2
O0083	On the accuracy of the femur reconstruction from statistical shape and appearance models for pre-clinical finite element testing	Daniel Nolte	Oral Presentation	Deformable (statistical and analytical) shape and appearance models in biomechanics 1	Sunday 8th July, 14:30 - 16:00	Wicklow MR2
O0084	Homogenization and model reduction of a numerical liver model for real-time application : validation on free-breathing	Michael Kugler	Oral Presentation	Deformable (statistical and analytical) shape and appearance models in biomechanics 1	Sunday 8th July, 14:30 - 16:00	Wicklow MR2
O0085	Assessing the Tensional State of Fibronectin Fibers at the Organ Level: Healthy Tissues versus Tumor Stroma	Viola Vogel	Invited Speaker	Next generation tissue mechanic approaches: In situ and in patients to self-assembling materials	Sunday 8th July, 14:30 - 16:00	Wicklow MR3
O0086	Imaging inhomogeneous mechanical properties with MR Elastography	Matthew McGarry	Invited Speaker	Next generation tissue mechanic approaches: In situ and in patients to self-assembling materials	Sunday 8th July, 14:30 - 16:00	Wicklow MR3
O0087	Neovascularization Promoting Alginate Based Heparin Hydrogel	Jennifer Etter	Oral Presentation	Next generation tissue mechanic approaches: In situ and in patients to self-assembling materials	Sunday 8th July, 14:30 - 16:00	Wicklow MR3
O0088	Mapping Neural Circuitry and Brain Activity at High Speed (10Hz) using functional Magnetic Resonance Elastography (fMRE)	Samuel Patz	Oral Presentation	Next generation tissue mechanic approaches: In situ and in patients to self-assembling materials	Sunday 8th July, 14:30 - 16:00	Wicklow MR3
O0089	Contributions of shear and tensile anisotropy to mechanical properties of the porcine brain estimated by MR elastography	Charlotte A. Guertler	Oral Presentation	Next generation tissue mechanic approaches: In situ and in patients to self-assembling materials	Sunday 8th July, 14:30 - 16:00	Wicklow MR3
O0090	Combining MR elastography with large static deformations to measure nonlinear mechanical properties in vivo: A study in skeletal muscle	Lynne Bilston	Oral Presentation	Next generation tissue mechanic approaches: In situ and in patients to self-assembling materials	Sunday 8th July, 14:30 - 16:00	Wicklow MR3
O0091	Geometrical and mechanical remodeling of the myocardium after Leukemia treatment from CMR.	Delphine Perie, Daniel Curnier	Oral Presentation	Next generation tissue mechanic approaches: In situ and in patients to self-assembling materials	Sunday 8th July, 14:30 - 16:00	Wicklow MR3
O0092	Transport through biomimetic NPCs: Insights from coarse-grained molecular dynamics simulations	Patrick Onck	Invited Speaker	Molecular dynamics simulation	Sunday 8th July, 14:30 - 16:00	Wicklow MR4
O0093	Modeling cell-matrix interactions at the molecular scale: From in silico predictions to in vivo consequences	Krystyn Van Vliet	Invited Speaker	Molecular dynamics simulation	Sunday 8th July, 14:30 - 16:00	Wicklow MR4
O0094	Mechanical tension and compositional dynamics of cell-matrix adhesions	Hengameh Shams	Oral Presentation	Molecular dynamics simulation	Sunday 8th July, 14:30 - 16:00	Wicklow MR4
O0095	Poroviscoelasticity of neutral and polyelectrolyte hydrogels	Yin Chang	Oral Presentation	Molecular dynamics simulation	Sunday 8th July, 14:30 - 16:00	Wicklow MR4
O0096	Collagen fibril mechanics under simulated enzymatic degradation: a molecular dynamics study	David Cesar Malaspina	Oral Presentation	Molecular dynamics simulation	Sunday 8th July, 14:30 - 16:00	Wicklow MR4
O0097	Damage and Failure Mechanisms of Axonal Microtubule under Extreme High Strain Rate: An In-Silico Molecular Dynamics Study	Ashfaq Adnan	Oral Presentation	Molecular dynamics simulation	Sunday 8th July, 14:30 - 16:00	Wicklow MR4
O0098	Molecular Mechanisms of Force Transmission Across the Nuclear Envelope	Zeinab Jahed	Oral Presentation	Molecular dynamics simulation	Sunday 8th July, 14:30 - 16:00	Wicklow MR4
O0100	Van C. Mow Medal	Jeffrey Holmes	Oral Presentation	ASME Mow/Fung/Woo/Nerem Awards	Sunday 8th July, 14:15 - 1600	Liffey B

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O0101	Y.C. Fung Young Investigator Award	Spencer Lake	Oral Presentation	ASME Mow/Fung/Woo/Nerem Awards	Sunday 8th July, 14:15 - 1600	Liffey B
O0101	Savio L-Y. Woo Medal	Kyriacos A. Athanasiou	Oral Presentation	ASME Mow/Fung/Woo/Nerem Awards	Sunday 8th July, 14:15 - 1600	Liffey B
O0103	Robert M. Nerem Medal	Roger D. Kamm	Oral Presentation	ASME Mow/Fung/Woo/Nerem Awards	Sunday 8th July, 14:15 - 1600	Liffey B
O0104	H.R. Lissner Medal	Louis J. Soslowsky	Oral Presentation	ASME Lissner Award	Tuesday 10th July, 08:30 - 09:15	Auditorium

00105	The contribution of axial stretch to the function of the proximal descending thoracic aorta.	Chiara Bellini	Invited Speaker	Challenges of working across scales in patient- and animal-specific cardiovascular modelling	Sunday 8th July, 16:30 - 18:00	Liffey B
00106	Subject-specific arterial blood flow modelling using reduced-order formulations	Jordi Alastruey	Invited Speaker	Challenges of working across scales in patient- and animal-specific cardiovascular modelling	Sunday 8th July, 16:30 - 18:00	Liffey B
00107	Why does capillary haematocrit decrease to 15 % in a vasoconstricted microvascular bed ?	Jacques Huyghe	Oral Presentation	Challenges of working across scales in patient- and animal-specific cardiovascular modelling	Sunday 8th July, 16:30 - 18:00	Liffey B
00108	Multiscale modelling of thrombolytic therapy for treatment of ischemic stroke	Boram Gu	Oral Presentation	Challenges of working across scales in patient- and animal-specific cardiovascular modelling	Sunday 8th July, 16:30 - 18:00	Liffey B
00109	The In Vivo Stress State of Human Cardiovascular Tissue	Mathias Peirlinck	Oral Presentation	Challenges of working across scales in patient- and animal-specific cardiovascular modelling	Sunday 8th July, 16:30 - 18:00	Liffey B
00110	Automatic tuning of a cardiovascular simulator into patient-specific condition	Libera Fresiello	Oral Presentation	Challenges of working across scales in patient- and animal-specific cardiovascular modelling	Sunday 8th July, 16:30 - 18:00	Liffey B
00111	Use of PET-based boundary conditions in coronary artery blood flow computations to estimate clinically important hemodynamic indicators	Ernest Lo	Oral Presentation	Challenges of working across scales in patient- and animal-specific cardiovascular modelling	Sunday 8th July, 16:30 - 18:00	Liffey B
00112	Time-varying shear moduli at the appropriate time scales are the most indicative of impact-induced brain strains	Songbai Ji	Oral Presentation	Brain injury mechanics 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 1
00113	Mechanical characterisation of brain tissue at 1, 10, and 100/s using a custom-built micro-indentation apparatus	David MacManus	Oral Presentation	Brain injury mechanics 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 1
00114	The Impact of the Arterial Network on Brain Response Under Inertial Loading	Fatma Madouh	Oral Presentation	Brain injury mechanics 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 1
00115	The Peculiar Role of Sutures in Infant Head Impact Biomechanics	Xiaogai Li	Oral Presentation	Brain injury mechanics 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 1
00116	Interrupted high-rate compression of porcine brain tissue	Lakiesha Williams	Oral Presentation	Brain injury mechanics 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 1
00117	Effect of brain morphometry on impact-induced local strain fields	Ashley Mazurkiewicz	Oral Presentation	Brain injury mechanics 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 1
00118	Effect of Heterogeneity of White Matter Structures on Stress Wave Propagation during Blunt Head Trauma	Martin Ostoja-Starzewski	Oral Presentation	Brain injury mechanics 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 1
00119	Regional mechanical properties of cortical meninges: the protective role of the meninges in concussive impacts	Darragh Walsh	Oral Presentation	Brain injury mechanics 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 1
00120	Finite element strain based measures do not correlate with kinematic risk based measures of head impact exposure	Logan Miller	Oral Presentation	Brain injury mechanics 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 1
00121	A structural constitutive model for smooth muscle contraction: Application to arteries	Raffaella De Vita	Invited Speaker	Biomechanics of cardiovascular tissues 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 2
00122	Multiscale and multiaxial mechanics of vascular smooth muscle contractility	Sae-Il Murtada	Invited Speaker	Biomechanics of cardiovascular tissues 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 2
00123	On a three-dimensional mechano-electrochemical model for smooth muscle contraction	Markus Böl	Oral Presentation	Biomechanics of cardiovascular tissues 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 2
00124	Validation of an In Vivo Parameter Identification Method for the Human Abdominal Aorta	Jan-Lucas Gade	Oral Presentation	Biomechanics of cardiovascular tissues 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 2
00125	Finite element implementation of growth induced three-dimensional residual stress in the aortic wall	Haofei Liu	Oral Presentation	Biomechanics of cardiovascular tissues 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 2
00126	Determination of In-Vivo Mechanical Properties in Lower Extremity Arteries	Jose F Rodriguez Matas	Oral Presentation	Biomechanics of cardiovascular tissues 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 2
00127	Machine-learning investigation of relationship between strength and response features in ascending thoracic aneurysm tissue	Jia Lu	Oral Presentation	Biomechanics of cardiovascular tissues 2	Sunday 8th July, 16:30 - 18:00	Liffey Hall 2
00128	Scaling experimental models of ocular blast trauma across species and to humans	Britany Coats	Invited Speaker	Ocular trauma	Sunday 8th July, 16:30 - 18:00	Liffey MR1
00129	Eye Injury Risk and Modeling, Past Present and Future	Joel Stitzel	Invited Speaker	Ocular trauma	Sunday 8th July, 16:30 - 18:00	Liffey MR1
00130	Human ocular lens fluid dynamics is directed by its inter-cellular network	Ehsan Vaghefi	Oral Presentation	Ocular trauma	Sunday 8th July, 16:30 - 18:00	Liffey MR1
00131	Bursa premacularis: a numerical simulation of saccadic movements to get insight on its functional role. Computational comparison of the biomechanical response of human and porcine eyes to primary blast and blunt impact	Maria Grazia Badas	Oral Presentation	Ocular trauma	Sunday 8th July, 16:30 - 18:00	Liffey MR1
00132	Numerical Study of Wall Shear Stress on Choroidal Endothelium	Matthew Reilly	Oral Presentation	Ocular trauma	Sunday 8th July, 16:30 - 18:00	Liffey MR1
00133	The relevance of the collagen architecture on the ability of the cornea to react to non physiological loads	Huidan (Whitney) Yu	Oral Presentation	Ocular trauma	Sunday 8th July, 16:30 - 18:00	Liffey MR1
00134		Anna Pandolfi	Oral Presentation	Ocular trauma	Sunday 8th July, 16:30 - 18:00	Liffey MR1

00135	Musculoskeletal simulation: A Swiss Army knife for the movement sciences	Brian Umberger	Invited Speaker	ISB Session 1: Computer simulation of human movement	Sunday 8th July, 16:30 - 18:00	Liffey MR2
00136	Goal-oriented human movement simulation: applications in predicting subject-specific balance recovery	Jeffrey A. Reinbolt	Invited Speaker	ISB Session 1: Computer simulation of human movement	Sunday 8th July, 16:30 - 18:00	Liffey MR2
00137	Optimization of a simulated ankle-hip exosuit reveals benefit of flexible torque assistance strategies for reducing the metabolic cost of walking	Nicholas A. Bianco	Oral Presentation	ISB Session 1: Computer simulation of human movement	Sunday 8th July, 16:30 - 18:00	Liffey MR2
00138	Alternative muscle recruitment strategies have potential to increase accuracy of joint reaction force estimations in musculoskeletal models	Bart van Veen	Oral Presentation	ISB Session 1: Computer simulation of human movement	Sunday 8th July, 16:30 - 18:00	Liffey MR2
00139	Estimation of subject-specific ligament parameters for preoperative planning of Total Knee Arthroplasty	Dennis Pedersen	Oral Presentation	ISB Session 1: Computer simulation of human movement	Sunday 8th July, 16:30 - 18:00	Liffey MR2
00140	Implementation of a subject-specific paediatric kinematic model of the knee with minimally deformable ligaments in OpenSim	Martina Barzan	Oral Presentation	ISB Session 1: Computer simulation of human movement	Sunday 8th July, 16:30 - 18:00	Liffey MR2
00141	An interdisciplinary method based on performance variables to generate and analyze dynamic human motions	Bruno Watier	Oral Presentation	ISB Session 1: Computer simulation of human movement	Sunday 8th July, 16:30 - 18:00	Liffey MR2
00142	Isochoric freezing in relation to biological matter.	Boris Rubinsky	Invited Speaker	Cryotherapy and cryopreservation (Boris Rubinsky 70th birthday session)	Sunday 8th July, 16:30 - 18:00	Liffey MR3
00143	Is it possible to incorporate the effect of blood perfusion in apparent thermophysical properties for estimation of freezing in tissues?	Hiroshi Takamatsu	Invited Speaker	Cryotherapy and cryopreservation (Boris Rubinsky 70th birthday session)	Sunday 8th July, 16:30 - 18:00	Liffey MR3
00144	Pre-dehydration using trehalose followed by ice seeding enables cell cryopreservation with trehalose as the sole cryoprotectant	Xiaoming "Shawn" He	Oral Presentation	Cryotherapy and cryopreservation (Boris Rubinsky 70th birthday session)	Sunday 8th July, 16:30 - 18:00	Liffey MR3
00145	Polarized-light cryomicroscopy: a mathematical framework for thermomechanical stress and light refraction analyses.	Prem Solanki	Oral Presentation	Cryotherapy and cryopreservation (Boris Rubinsky 70th birthday session)	Sunday 8th July, 16:30 - 18:00	Liffey MR3
00146	Improved hepatocyte isolation from cardiac death rat livers following hypothermic machine perfusion and specially designed perfusion solution	Charles Lee	Oral Presentation	Cryotherapy and cryopreservation (Boris Rubinsky 70th birthday session)	Sunday 8th July, 16:30 - 18:00	Liffey MR3
00147	Cryosurgery and electrolysis - Cryoelectrolysis	Boris Rubinsky	Oral Presentation	Cryotherapy and cryopreservation (Boris Rubinsky 70th birthday session)	Sunday 8th July, 16:30 - 18:00	Liffey MR3
00148	Effects of Long Term (Decade) Freezing Storage on Adipose Tissue Derived Stem Cells	Ram Devireddy	Oral Presentation	Cryotherapy and cryopreservation (Boris Rubinsky 70th birthday session)	Sunday 8th July, 16:30 - 18:00	Liffey MR3
00149	Towards a simulation-based understanding of musculoskeletal deformity and their therapeutic remediation in children with cerebral palsy.	Ilse Jonkers, Lorenzo Pitto, Antoine Mottet Dit Falisse, Guy Molenaerts, Friedl De Groote	Invited Speaker	Multiscale biomechanics of paediatric musculoskeletal diseases	Sunday 8th July, 16:30 - 18:00	Ecocem
00151	Validation of non-invasive treatments for temporomandibular joint disorders during childhood considering the porous-fibrous properties of the joint	J. Ortún-Terrazas	Oral Presentation	Multiscale biomechanics of paediatric musculoskeletal diseases	Sunday 8th July, 16:30 - 18:00	Ecocem
00152	Development of Personalised Infant Femur Finite Element Models Combining Paired CT and MRI Examinations	A. P. G. Castro	Oral Presentation	Multiscale biomechanics of paediatric musculoskeletal diseases	Sunday 8th July, 16:30 - 18:00	Ecocem
00153	How can load directions due to different physical activities affect proximal femoral growth?	Lanie Gutierrez Farewik	Oral Presentation	Multiscale biomechanics of paediatric musculoskeletal diseases	Sunday 8th July, 16:30 - 18:00	Ecocem
00154	Acute Effects of Botulinum Toxin Within and Beyond Injected Rat Triceps Surae Muscles Contradict Some of the Treatment Objectives	Filiz Ates	Oral Presentation	Multiscale biomechanics of paediatric musculoskeletal diseases	Sunday 8th July, 16:30 - 18:00	Ecocem
00155	Comparisons of Gait Patterns Between Children With and Without Avascular Necrosis After Osteotomy for Developmental Dysplasia of the Hip	Tsan-Yang Chen	Oral Presentation	Multiscale biomechanics of paediatric musculoskeletal diseases	Sunday 8th July, 16:30 - 18:00	Ecocem
00156	EMG-Driven Fibril Reinforced Poroviscoelastic Finite Element Model of the Knee Joint	Amir Esrafilian	Oral Presentation	Computational joint mechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2A
00157	Sensitivity of Total Knee Replacement Wear to Gait Pattern— A Parametric Finite Element Study	Steven Mell	Oral Presentation	Computational joint mechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2A
00158	Musculoskeletal multibody simulation to predict functional outcome of different total knee replacement designs during dynamic activities	Maeruan Kebbach	Oral Presentation	Computational joint mechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2A
00159	The Role of the Anterior Cruciate Ligament in Rotational Laxity Varies from Knee-to-Knee	Carl Imhauser	Oral Presentation	Computational joint mechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2A
00160	Segment Contributions to Medial Longitudinal Arch Recoil During Propulsion	Ashton J. Stoop	Oral Presentation	Computational joint mechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2A
00161	Effect of Combined Version on Sit-to-Stand Kinematics in Total Hip Replacement: A Computational Analysis	Brandon Marine	Oral Presentation	Computational joint mechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2A
00162	Effects of loosened posteromedial meniscal root repairs on knee mechanics	Tammy Haut Donahue	Oral Presentation	Computational joint mechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2A
00163	Effect of trochlear dysplasia on patellar tracking and patellofemoral contact pressure. A musculoskeletal analysis using an efficient cartilage contact model.	Marco Marra	Oral Presentation	Computational joint mechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2A



Sunday 8th of July 2018

00164

Surrogate-based optimization of acetabular implant design through minimization of stress shielding

Fernando Perez Boerema

Oral Presentation

Computational joint mechanics 2

Sunday 8th July, 16:30 - 18:00

Wicklow Hall 2A

Sunday 8th of July 2018

00165	Growth map of the prenatal mouse knee joint measured by deformable registration	Enrico Dall'Ara	Oral Presentation	Mechanics of musculoskeletal growth and adaptation 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2B
00166	Modeling spatiotemporal activities of bone cells regulated by transforming growth factor- $\beta$	Young Kwan Kim	Oral Presentation	Mechanics of musculoskeletal growth and adaptation 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2B
00167	Shoulder joint shape is rescued as development progresses when limb musculature is absent in the murine embryo	Paraskevi Sotiriou	Oral Presentation	Mechanics of musculoskeletal growth and adaptation 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2B
00168	Biomechanical analysis of paediatric long bone growth modulation treatment by patient-specific finite element modelling	Peter Varga	Oral Presentation	Mechanics of musculoskeletal growth and adaptation 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2B
00169	Tibia cross-sectional roundness is related to ambulation, but not age, in children with myelomeningocele	Sandra J. Shefelbine	Oral Presentation	Mechanics of musculoskeletal growth and adaptation 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2B
00170	Fibroblast Growth Factor 9 (FGF9) regulates postnatal skeletal movement and muscle loading	Megan Killian	Oral Presentation	Mechanics of musculoskeletal growth and adaptation 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2B
00171	Obesity and short-term aerobic exercise effects on bone microscale material properties are sex-specific	Vanessa Sherk Jonathan Doering, Jacqueline Cole	Oral Presentation	Mechanics of musculoskeletal growth and adaptation 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2B
00172	Understanding muscle-bone cellular crosstalk in aging	Cole	Oral Presentation	Mechanics of musculoskeletal growth and adaptation 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2B
00173	Sciatic neurectomy increases bone mechanosensitivity in mature and old mice	Judith Piet	Oral Presentation	Mechanics of musculoskeletal growth and adaptation 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 2B
00174	Geometrical constraints during epithelial jamming	Stephen J. DeCamp	Oral Presentation	Mechanics of cell motility 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 1
00175	Asymmetry in the flagellar waveform of a swimming alga increases propulsive power	Mathieu Bottier	Oral Presentation	Mechanics of cell motility 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 1
00176	Stochastic Dynamics of Cell Migration in Complex Environments	David B. Brückner	Oral Presentation	Mechanics of cell motility 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 1
00177	Stress decomposition in the expanding epithelial monolayer	Youngbin Cho	Oral Presentation	Mechanics of cell motility 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 1
00178	Substrate adhesive area confinement is a key determinant of cell velocity in collective migration	Danahe Mohammed	Oral Presentation	Mechanics of cell motility 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 1
00179	Polarity Dynamics of Epithelial Trains During Initiation And Maintenance of Directed Collective Cell Migration	Shreyansh Jain	Oral Presentation	Mechanics of cell motility 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 1
00180	The unjamming transition is distinct from the epithelial-to-mesenchymal transition	Jennifer Mitchel	Oral Presentation	Mechanics of cell motility 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 1
00181	Cell Migration Behaviour Modulated by Extracellular Matrix Environment	Toshiro Ohashi	Oral Presentation	Mechanics of cell motility 2	Sunday 8th July, 16:30 - 18:00	Wicklow Hall 1
00183	Computational model-driven design of tissue engineered vascular grafts	Jay Humphrey	Invited Speaker	Mechanobiology of engineered soft tissue growth and remodelling	Sunday 8th July, 16:30 - 18:00	Wicklow MR1
00184	A novel time-evolving model for the in-vivo maturing pulmonary artery conduit	Michael Sacks	Invited Speaker	Mechanobiology of engineered soft tissue growth and remodelling	Sunday 8th July, 16:30 - 18:00	Wicklow MR1
00185	Emergence of a geometrical and mechanical equilibrium in engineered cardiovascular tissues	Pim Oomen	Oral Presentation	Mechanobiology of engineered soft tissue growth and remodelling	Sunday 8th July, 16:30 - 18:00	Wicklow MR1
00186	Improved Adult and Pediatric Aortic Elastogenesis Driven by Adipose-Derived Mesenchymal Stem Cell Secreted Factors	Aneesh Ramaswamy	Oral Presentation	Mechanobiology of engineered soft tissue growth and remodelling	Sunday 8th July, 16:30 - 18:00	Wicklow MR1
00187	Compressive loading regulates microvascular growth in vitro	Marissa Ruehle	Oral Presentation	Mechanobiology of engineered soft tissue growth and remodelling	Sunday 8th July, 16:30 - 18:00	Wicklow MR1
00188	The Combined Effect Of Shear Stress And Cyclic Strain On (Myo)Fibroblast/Monocyte-Induced Matrix Growth And Remodeling In A 3D Vascular Scaffold	Eline E. van Haften	Oral Presentation	Mechanobiology of engineered soft tissue growth and remodelling	Sunday 8th July, 16:30 - 18:00	Wicklow MR1
00189	Cell remodelling and contractility in engineered tissues subjected to multi-axial stress states	Patrick McGarry	Oral Presentation	Mechanobiology of engineered soft tissue growth and remodelling	Sunday 8th July, 16:30 - 18:00	Wicklow MR1
00190	Characterization of physiological development of the hip in children using statistical shape models	Lorenzo Grassi	Oral Presentation	Deformable (statistical and analytical) shape and appearance models in biomechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow MR2
00191	Geometric parameterisation to assess morphological risk factors in finite element models of the hip	Robert Cooper	Oral Presentation	Deformable (statistical and analytical) shape and appearance models in biomechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow MR2
00192	Addressing high dimensionality and low sample size data for mesh-based morphometric analysis: Shoulder form and shape analyses and implications to biomechanics modelling	Jean-Rassaire Fouefack	Oral Presentation	Deformable (statistical and analytical) shape and appearance models in biomechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow MR2
00193	Association of Bony Morphology of the Distal Femur and ACL Injuries	Richard Debski	Oral Presentation	Deformable (statistical and analytical) shape and appearance models in biomechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow MR2
00194	A comparison between osteoarthritic and asymptomatic knees using statistical shape modelling	Joe Lynch	Oral Presentation	Deformable (statistical and analytical) shape and appearance models in biomechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow MR2
00195	Allometric shape vector projection applied to the talus and calcaneus	Amy Zavatsky	Oral Presentation	Deformable (statistical and analytical) shape and appearance models in biomechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow MR2

Sunday 8th of July 2018

O0196	New method of 3D reconstruction of the intra and extra cranial surfaces based on CT-scan data.	Pierre-Marc François	Oral Presentation	Deformable (statistical and analytical) shape and appearance models in biomechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow MR2
O0197	Effect of age and sex on the pelvis, femur and tibia clinical shape parameters in 157 normal individuals aged 5 to 45 years old	Morgan Sangeux	Oral Presentation	Deformable (statistical and analytical) shape and appearance models in biomechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow MR2
O0198	Diagnosis of TMJ disorders using parametric numerical models obtained by active shape model of orthopantomography	J. Ortún-Terrazas	Oral Presentation	Deformable (statistical and analytical) shape and appearance models in biomechanics 2	Sunday 8th July, 16:30 - 18:00	Wicklow MR2
O0199	An automated computational biomechanics workflow for improving breast cancer diagnosis and treatment	Martyn P. Nash	Invited Speaker	Breast health biomechanics	Sunday 8th July, 16:30 - 18:00	Wicklow MR3
O0200	Breasts biomechanics and upper torso structure and function	Deirdre McGhee	Invited Speaker	Breast health biomechanics	Sunday 8th July, 16:30 - 18:00	Wicklow MR3
O0201	Breast skin strain during everyday activities	Michelle Norris	Oral Presentation	Breast health biomechanics	Sunday 8th July, 16:30 - 18:00	Wicklow MR3
O0202	Designing experiments for identifying breast tissue mechanical properties	Thiranja Babarenda Gamage	Oral Presentation	Breast health biomechanics	Sunday 8th July, 16:30 - 18:00	Wicklow MR3
O0203	Analysis of breast implants failure as a template for a better manufacturing.	Nilza Ramião	Oral Presentation	Breast health biomechanics	Sunday 8th July, 16:30 - 18:00	Wicklow MR3
O0204	Preliminary study on infant applied pressures during breastfeeding and Poisson's ratio in lactating human nipple	Diana Alatalo	Oral Presentation	Breast health biomechanics	Sunday 8th July, 16:30 - 18:00	Wicklow MR3
O0205	Is breast pain related to breast movement in elite female athletes? Implications for biomechanical research.	Brooke Brisbane	Oral Presentation	Breast health biomechanics	Sunday 8th July, 16:30 - 18:00	Wicklow MR3
O0206	Biophysical control of cell form and function by single actomyosin stress fibers	Sanjay Kumar	Invited Speaker	Mechanobiology of cellular actomyosin systems	Sunday 8th July, 16:30 - 18:00	Wicklow MR4
O0207	Mechanics of Cellular Contractility	Margaret Gardel	Invited Speaker	Mechanobiology of cellular actomyosin systems	Sunday 8th July, 16:30 - 18:00	Wicklow MR4
O0208	Dynamic balance between force generation and relaxation facilitates pulsed contraction of actomyosin networks	Taeyoon Kim	Oral Presentation	Mechanobiology of cellular actomyosin systems	Sunday 8th July, 16:30 - 18:00	Wicklow MR4
O0209	Changes in the efficiency of actin cytoskeletal force transmission to cell nucleus during osteogenic differentiation in human mesenchymal stem cell	Hiromi Miyoshi	Oral Presentation	Mechanobiology of cellular actomyosin systems	Sunday 8th July, 16:30 - 18:00	Wicklow MR4
O0210	Controlling where and when forces are generated during tissue morphogenesis	Karen Kasza	Oral Presentation	Mechanobiology of cellular actomyosin systems	Sunday 8th July, 16:30 - 18:00	Wicklow MR4
O0211	Stress fibers exhibit unique contractile properties distinct from those of myofibrils	Shinji Deguchi	Oral Presentation	Mechanobiology of cellular actomyosin systems	Sunday 8th July, 16:30 - 18:00	Wicklow MR4
O0212	Tropomyosin heterodimers as a new model for studying the effects of myopathic mutations.	Alexander Matyushenko	Oral Presentation	Mechanobiology of cellular actomyosin systems	Sunday 8th July, 16:30 - 18:00	Wicklow MR4