

ANZORS 24th Annual Scientific Meeting 05-07 October 2018

Short Program (updated on 03.10.2018)







Harry Perkins Institute (Perkins North), 6 Verdun St, Nedlands WA 6009, Australia

Day 1 (Friday October 05) – McCusker Auditorium, ground floor, Harry Perkins Institute (Perkins North), 6 Verdun St, Nedlands WA

08:00-08:30	Coffee and registration				
08:30-08:45		President's welcome: A/Prof Dominic Thewlis			
08:45-09:15	Keynote: Prof Jerry Feng, Texas A&M University College of Dentistry, Dallas, Texas, USA				
Session chair: Prof Jiake Xu		"A Novel F	Role of Tendon/Ligament in Joint Formation: A challenge to the current dogma"		
09:15-10:15	First name	Surname	Abstract title		
Podium 1	Tao	Wang	SPARC-mediated mechanotransduction in tendon homeostasis		
Session chair:	Bruce	Gardiner	Understanding Achilles tendon remodeling following underuse and overuse		
Dr Jiao Jiao Li	Yu-Wen	Su	Osteoblast derived-neurotrophin-3 induces cartilage removal proteases and osteoclast-mediated function at injured growth plate in rats		
	Rema	Oliver	Evaluation of comparative soft tissue response to bone void fillers with antibiotics in a rabbit intramuscular model		
	Benjamin	Mullin	Gene expression study in human osteoclasts identifies regulatory roles for bone mineral density GWAS variants		
			10:15-10:55 Morning coffee & tea		
10:55-12:07	First name	Surname	Abstract title		
Podium 2	Kai	Chen	Pseurotin a, potentially a novel alternative treatment for osteoporosis		
Session chair: Dr Tania Crotti	Mohammadh ossein	Hassansha hi	Potency of Icariin in attenuating methotrexate chemotherapy-induced bone marrow micro-vascular damage and bone loss in rats		
Di Tama Ciotti	Ziyi	Wang	Novel functions for paraspeckle in RANKL-induced osteoclastogenesis		
	Qiang	Guo	Identification of an endolysosomal transporter critical for osteoclast function during bone remodelling		
	Qian	Tang	Roles of CXCL12 induction in apoptotic skeletal cells in the development of bone growth defects following dexamethasone therapy: a potential novel therapeutic target		
	Vedran	Lovric	Demineralized bone fibers as a grafting option for spinal fusion		
	12:0	7-13:20 Lunc	ch & poster viewing (poster viewing will take place between 12:30-13:20)		
13:20-13:50					
Session chair:		Keynote: Pr	of Dietmar Hutmacher, Queensland University of Technology, Brisbane, Australia		
Prof David Haynes	"Humanization of Mice via Multiple Tissue Engineering Platform Technologies"				
13:50-14:50	First name	Surname	Abstract title		
Podium 3	Peilin	Chen	Fabrication of a silver nanoparticle-coated collagen membrane with contained antibacterial and anti- inflammatory activities		
Session chair:	Iman	Roohani	3D-printing of bioceramic bone scaffolds at room temperature		
Prof David Findlay	Jiao Jiao	Li	Evaluating baghdadite scaffolds as synthetic bone substitutes in sheep: Analysis of material-tissue interactions		
	Nicholas J	Gunn	Developing a cell line model of osteocyte infection		
	Xingdi	Wang	Development of a novel antimicrobial allograft bone material: preliminary results		
			14:50-15:30 Afternoon coffee & tea and poster viewing		
15:30-16:42	First name	Surname	Abstract title		
Podium 4	Saulo	Martelli	Bone tissue deformation and fracture in the human femur under physiological loading configuration		
Session chair: Dr Rami Al- Dirini	Diana	Perriman	A comparison between osteoarthritic and asymptomatic knees using statistical shape modelling		
	Joseph	Cadman	A new cannulated compression clamp for short bone fractures: a biomechanical comparison to the lag screw technique		
	Sophia	Zhao	The influence of glenohumeral joint lateralisation on muscle leverage after reverse total shoulder arthroplasty		
		1			
	Michael P	Russo	Investigation of the combinations of loading and facet joint contributions to Lumbar Disc Herniation		

18:00-	Young Investigators Pub-dinner
	Strictly Masters/PhD students only; free meal; must have indicated attendance during registration
	at <u>Little Way</u> (v/gf available), 161 Broadway, Nedlands, WA; 30 min walk from Conference Venue
	Map: googlemap

Day 2 (Saturday October 06) – McCusker Auditorium, ground floor, Harry Perkins Institute (Perkins North), 6 Verdun St, Nedlands WA

08:00-08:15	Coffee & tea				
08:15-09:15	First name	Surname	Abstract title		
David Findlay ECR Award Final,	Saeed	Miramini	How to estimate the friction coefficient of articular cartilages using in-vivo imaging of the joints?		
Session chairs:	Marco	Palanca	Body anthropometry and local bone microarchitecture may improve determining hip fracture risk beyond DXA		
Dr Claudia Di Bella, Prof Hala Zreiqat	Zihui	Li	Facilitating reproducible longitudinal microCT imaging of the mouse knee using a novel holder		
	Junjie	Gao	Endoplasmic reticulum mediates mitochondrial transfer in the osteocyte dendritic network		
	Jiao Jiao	Li	Understanding the mechanisms of chronic joint disease and developing a cure		
09:15-09:45	Keynote: Prof David Little, The University of Sydney, Sydney, Australia				
Session chair: Prof Ming Hao Zheng	"Pharmacologic Interventions in Genetic Bone Disease"				
			9:45-10:15 Morning coffee & tea		
10:15-11:15	First name	Surname	Abstract title		
PhD Award Final,	Minhao	Gao	Glucocorticoid induces MKP1 mediated mitochondrial dysfunction in osteocytes		
Session chairs: Prof Dietmar	Jacob	Kenny	Identification of genes regulating osteoarthritis development using a mouse phenotype library		
Hutmacher, A/Prof John Costi	Megan	Thomas	Response of articular cartilage and subchondral bone to a focal loss of joint surface congruity		
	Sophie	Rapagna	Cartilage thickness and subchondral bone microarchitecture in varus- and valgus-aligned osteoarthritic tibiae: comparison with controls		
	Hamed	Ziaeipoor	Rapid prediction of femoral strain using a novel computational model		
			ANZORS AGM		
11:15-12:15	All delegates welcome (and encouraged) to attend				
12:30-17:00	Half day Networking Event. (bus transport provided; return back in Perth by 17:00) Pickup: at 12:30 pm, in front of Conference Venue (6 Verdun St Nedlands, WA) Sandalford wines, Swan Valley, WA.				
19:00-	Conference Dinner in the city, includes Awards Announcements Restaurant New Golden Century, 269 James St., North Bridge, WA. Map: googlemap				

Day 3 (Sunday October 07) – McCusker Auditorium, ground floor, Harry Perkins Institute (Perkins North), 6 Verdun St, Nedlands WA

08:15-08:45	Coffee & tea			
08:45-9:45	First name	Surname	Abstract title	
Podium 5	Yinghong	Zhou	RANKL-induced M1-like macrophages are actively involved in bone formation	
Session chair:	Chao	Wang	Antioxidant enzyme PRDX1 mediates osteoclastogenesis via suppressing ROS production	
Dr Jennifer Tickner	Heng	Qiu	New insights into the role of Methionine 199 in the function of Receptor Activator of Nuclear Factor Kappa-B Ligand (RANKL) and bone homeostasis	
	Vincent	Kuek	NPNT is expressed by osteoblasts and mediates angiogenesis via the activation of extracellular signal-regulated kinase	
	Young Jung	No	Bioactive synthetic fibre-hydrogel composites designed for tendon and ligament prostheses	
9:45-10:15 Session chair: Prof Bruce Gardiner	Keynote: Prof John Antoniou, McGill University, Montréal, Canada "Short link N acts as a disease modifying osteoarthritis drug"			
			10:15-10:55 Morning coffee & tea	
10:55-12:07	First name	Surname	Abstract title	
Podium 6	Catherine	Galvin	Healthy ageing does not change knee kinematics. A medical-imaging cross-sectional observation study	
Session chair: Prof Jerry Feng	Danè	Dabirrahmani	Fluoroscopic analysis & clinical outcomes of medially stabilised knees	
Tior Jerry Teng	Sophie	Rapagna	Quantification of bone microarchitecture damage in human femoral press-fit implantation using HR-pQCT and digital volume correlation	
	Stuart	Millar	Development and evaluation of a coordinate system for complex tibial plateau fractures using a geometric shape fitting approach	
	Diana	Perriman	Weighing in: does size matter in knee kinematics?	
	Dhara	Amin	Multiaxial lumbar intervertebral disc mechanics are altered after simulated repetitive lifting movements	
		12:07-13:20 Lunc	ch & poster viewing (poster viewing will take place between 12:30-13:20)	
13:20-13:50 Session chair: Dr Yu-Wen Su	Keynote: Dr Jennifer Tickner, The University of Western Australia, Perth, Australia "Investigating the role of the bone microenvironment in paediatric acute lymphoblastic leukaemia (ALL)"			
13:50-14:50	First name	Surname	Abstract title	
Podium 7	David	Haynes	Epigenetic regulation of human mesenchymal stem cells by inhibition of Histone Deacetylase 5 stimulates osteoblast development and bone formation in vitro	
Session chair: Prof John Antoniou	Yongxian	Li	Icariin increases bone mass in ovariectomized rats with osteoporotic fracture via regulating Notch1 and OPG/RANK/RANKL system	
	Lianzhi	Chen	The influence of body mass index on microstructural and pathological changes in osteochondral unit of osteoarthritic tibia plateaus	
	Mukai	Chimutengwe nde-Gordon	A prospective study of bone marrow-derived stem cell transplantation for the treatment of osteochondral defects of the knee	
	Stuart	Millar	Do current classification systems for tibial plateau fracture describe what we really see?	
		14:50-1	5:30 Afternoon coffee & tea and poster viewing	
15:30-16:06	First name	Surname	Abstract title	
Podium 8	Jasvir	Bahl	Reconstruction of the hip joint centre location using statistical shape models compared to functional and regression methods and its effect on muscle moment arms	
Session chair: Dr Diana Perriman	Mukesh	Soni	The use of feedback and video engagement on exercise performance during pedaling	
	Dermot	O'Rourke	Parametric computational study of the effect of different AORI defect types on primary stability of sleeved revision tibial tray with and without stem	
16:06-16:15	Dermot			
	Dermot		stability of sleeved revision tibial tray with and without stem	

POSTERS on Day 1 (Friday October 05) – Foyer, ground floor, Harry Perkins Institute (Perkins North), 6 Verdun St, Nedlands WA

12:30-13:20	Lunch break		
14:50-15:30	Afternoon break		
Poster #	First name	Surname	Abstract title
1	Yuan	Chai	Laser polished fused deposition poly-lactic acid objects for personalized orthopaedic application
2	Ashley Ray	Wilson-Smith	Ongoing validation of the HALO© Digital Goniometer and VALD© Humantrak System
3	Marco	Palanca	The size of simulated lytic vertebral metastases affects the in vitro strain distribution
4	Rami MA	Al-Dirini	Micromechanics of the human proximal femur during physical activity
5	Dawei	Huang	Radiographic analysis of implant position and articular subsidence in tibial plateau fractures
6	XiaoJun	Chen	Association of reduced sclerostin expression with collapse process in patients with osteonecrosis of the femoral head
7	Jetske	Viveen	Three-dimensional micro-architecture of the proximal ulna
8	Dale	Robinson	Load response of an osseointegrated prosthesis for the treatment of unilateral transfemoral amputation
9	Yue	Ding	The mechanism of RIPK3/NLRP3 pathway in aseptic loosening caused by wear particles-induced macrophage activation in vitro
10	Yue	Ding	The mechanism of USP14/ NLRC5/NF-kB in aseptic loosening caused by wear particles-induced macrophage activation in vitro
11	Dermot	O'Rourke	Pre-clinical finite element modelling of patient and surgical variability in the primary stability of a cementless acetabular cup
12	Francois	Fraysse	Objective measures of changes in physical activity following total hip arthroplasty
13	Yongxian	Li	Risk factor analysis for re-collapse of cemented vertebrae after percutaneous vertebroplasty (PVP) or percutaneous kyphoplasty (PKP)

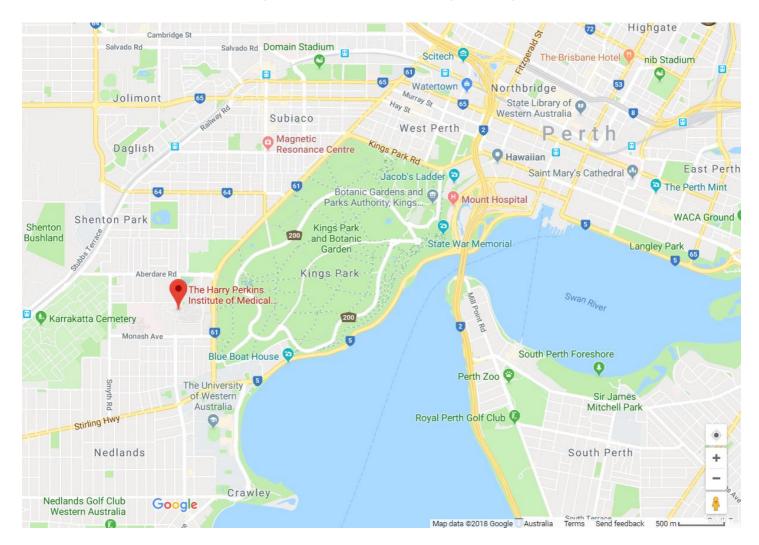
POSTERS on Day 3 (Sunday October 07) – Foyer, ground floor, Harry Perkins Institute (Perkins North), 6 Verdun St, Nedlands WA

12:30-13:20	Lunch break			
14:50-15:30	Afternoon break			
Poster #	First name	Surname	Abstract title	
14	Iman	Roohani	A novel modular and strong scaffold for treatment of load bearing bone defects	
15	Katrina	Browne	A novel disinfection strategy to prevent surgical site infection	
16	Stephanie	Doyle	Melt electrospinning writing as reinforcement scaffolds of biofabricated articular human cartilage	
17	Dezhi	Song	Cistanche deserticola polysaccharide attenuates osteoclastogenesis and bone resorption via inhibiting RANKL signaling and ROS production	
18	Yue	Ding	The negative role of NOD2 in macrophage-induced aseptic joint loosening caused by wear particles in vitro and vivo	
19	Yue	Ding	The mechanism of ZBTB20/ NF-kB signaling pathway in aseptic loosening caused by wear-particle-induced macrophage activation in vitro	
20	Sarah	Ellis	Does the shape, size and location of deformity predict outcomes in arthroscopy for femoroacetabular impingement?	
21	Yongxian	Li	Cement for treating osteoporotic vertebral compression fractures: Finite Element study and clinical outcomes	
22	Samuel	Bennett	Gene mining and integration of the dento-skeletal field of the collaborative cross population	
23	Saimurooban	Muralidaran	Inter-rater reliability and concurrent validity of a novel laser-guided goniometer	
24	Jian-Ping	Wu	Confocal arthroscopy for detecting early osteoarthritis	
25	Corey	Scholes	Defining treatment success in rotator cuff tear: A scoping review in the context of the WHO-ICF framework	
26	Sudhir	Kumar	A rare case of a broken right femur implant secondary to Non-Articular Metallosis	

Venue

Harry Perkins Institute (Perkins North),

(McCusker Auditorium, ground floor, left hand side when entering from main doors), 6 Verdun St, 6009 Nedlands WA, Perth, Australia



Google map

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