

# Monday 4th September

**8:00 8:50 Conference Registration and Refreshments**

**8:50 9:00 Welcome to BORS 2017 @SAF Room G34**

**9:00 10:30 Big Data**

Chairs: Arash Aframian, Sophie Williams

9:00 9:30 **Keynote: Prof Daniel Prieto Alhambra**

9:30 10:30 Free Papers

Salah Hammouche	Complication And Survival Rate Of Cemented Hemiarthroplasties With Taper Slip Stem Configuration: Exeter Trauma Stem As An Example
Tom Kurien	Prediction Of Postoperative Pain After Total Knee Replacement Surgery Using Functional Brain MRI Psychology, Knee Imaging And Assessment Of Central Sensitisation: A Prospective Study
Eleni Zengini (Mark Wilkinson)	Identification Of Nine Novel Osteoarthritis Susceptibility Loci Through The UK Biobank Resource
Parham Aram	Developing A Personalised Decision Aid For Joint Replacement: Which Survival Model To Choose?
Matthew Jaggard	Differences In The Metabolic Profile Of Human Synovial Fluid In Various Osteoarthritis Subgroups
Pouya Akhbari	Vitamin D Deficiency Prevalence Across Different Ethno-Racial Groups: Cross Sectional Analysis From A Large Inner City Cohort, London, United Kingdom

**10:30 11:00 Coffee, Refreshments & Posters @SAF Room 120-122**

**11:00 12:30 Lifelong Health**

Chairs: Valerie Sparkes, John Churchwell

11:00 11:30 **Keynote: Prof Elaine Dennison**

11:30 12:30 Free Papers

Samantha Downie	A Novel Scoring System For Predicting Early Mortality In Patients With Metastatic Proximal Femoral Fractures
Lea Trela-Larsen	The Effect Of Double Counting In Arthroplasty Registers: Bilateral Procedures And The Analysis Of Mortality
Karan M Shah	Genome-Wide Expression Analysis Confirms HIF-1 Signalling As The Primary Response To Cobalt And Chromium Exposure In Human Osteoblasts
Mohsen Farzi	Age-Specific Bone Density Distribution In The Femur
Thomas Kurien	Pre-Surgical Neuropathic Pain And Central Pain Facilitation In End Stage Osteoarthritis Predicts Poor Outcome 6 Months After Total Knee Replacement Surgery: A Prospective Observational Study
Ben Egan	Developing And Testing A Novel Delivery System For The Glutamate Receptor Antagonist NBQX To Treat Joint Pain And Disease

**12:30 12:40 Ceramic for Hip Resurfacing: Why Re-invent The wheel?**

**Carolina Avila Carrasco - Senior Development Engineer MatOrtho**

**12:40 14:00 Lunch & Posters @SAF Room 120-122**

13:10 14:00 AGM - All BORS Members Welcome - Hosted by Mark Wilkinson and Sabina Gheduzzi in SAF Room G34

# Monday 4th September

## 14:00 15:30 Personalised Orthopaedics

Chairs: Oliver Boughton, Richard Jan Van Arkel

14:00 14:30 **Keynote: Prof Justin Cobb**

14:30 15:30 Free Papers

KC. Geoffrey Ng	Combination Of CAM FAI And High Pelvic Incidence Reduces Sagittal Hip Motions
Raeen Farrokhnik	The Effect Femoral Stem Length Has On Hip Function; A Prospective Gait Study At High Speeds And Inclines
Oliver Chan	Do Subchondral Bone Changes Predict Ankle Osteoarthritis?
Rahul Bhattacharyya	Generic Cognitive Task Analysis (GCTA) Wizard Tool To Train Orthopaedic Trauma Surgeons Of The Future
Tabitha Tay	The Effects Of Bisphosphonate Therapy On Bone Nanostructure
Kiron Athwal	Can We Restore Stability To Collateral Ligament-Deficient Total Knee Arthroplasty By Using A Soft-Tissue Reconstruction?

## 15:30 16:00 Coffee, Refreshments & Posters @SAF Room 120-122

## 16:00 16:40 Tissue Engineering & Regenerative Orthopaedics

Chairs: Rob Wallace, Rahul Bhattacharyya

16:00 16:40 Free Papers

Maryam Tamaddon	Stable Mechanical Fixation Of Osteochondral Scaffold Supported Overlying Cartilage Regeneration: Observation From A Clinical Dog Shoulder Study
Vitali Goriainov	Harnessing Surface Topography To Enhance Osteogenesis And Osseointegration
Halina Norbertczak	A Decellularised Biological Scaffold For The Replacement Of Degenerate Intervertebral Discs
Maria E. Aleman	Evaluation Of The Mechanical Properties Of 3D Printed Microcrystalline Cellulose-Polycaprolactone Scaffolds

## 16:50 17:45 Public Lecture - Prof Julian Jones @SAF Room G34

## 17:45 18:15 Presidential Award - Prof Sean PF. Hughes

Chaired by Mark Wilkinson

18:15 Close and Thanks

19:00 Conference Dinner @ Oginsko



## Tuesday 5th September

**8:30 9:00 Coffee and Refreshments @SAF Room 120-122**

**9:00 10:50 Structure, Maintenance and Repair @SAF Room G34**

Chairs: Allie Gartland, Iain Murray

9:00 9:30 **Keynote: Dr Chantal Chenu**

9:30 10:50 Free Papers

George Pickering	KIF26B Is Necessary For Osteogenic Transdifferentiation And Mineralisation In An In Vitro Model Of Pathological Ossification
Robert Wallace	Anisotropic Effects Of Collagen Removal On Cortical Bone Mechanical Properties
Sophie J. Gilbert	Inhibition Of The PKR Signalling Pathway Results In Increased Bone Formation In Vitro And In Vivo
Crispin CR. Wiles	Inter-Trabecular Angle Analysis Of Human Heterotopic And Foetal Bone
Gurjit S. Mandair	Radiation-Induced Changes To Bone Quality Extend Beyond Periosteal Bone
Fahd Mahmood	The Ionic Contribution Of Proteoglycans To Meniscal Load Transmission
Louise A. Bennett	Molecular Responses In Damaged Cartilage: BMP-7 Signalling In OA
Robbie Miller	Protection Of Chondrocytes Against Staphylococcus Aureus By Antibacterials In A Bovine Cartilage Model Of Septic Arthritis

**10:50 11:20 Coffee, Refreshments & Posters @SAF Room 120-122**

**11:20 12:30 Stem Cell Approaches**

Chairs: Dawn Groves, Kara Shah

11:20 11:50 **Keynote: Prof Agamemnon Grigoriadis**

11:50 12:30 Free Papers

Iain R. Murray	Minimum Reporting Requirements for Clinical Studies Evaluating Biologics: Platelet-Rich Plasma and Mesenchymal Stem Cells
Anita Sanghani-Kerai	Bone Formation In Osteoporosis Can Be Improved By Stem Cells Transfected With CXCR4
Richard Meeson	Peripheral Blood Mesenchymal Stem Cells Mobilised Post Administration Of VEGF And AMD3100 Undergo Osteoblastic And Not Adipogenic Differentiation
Anita Sanghani-Kerai	Demineralised Cortical Bone Matrix And Mesenchymal Stem Cells In A Chronic Rotator Cuff Tear Model

**12:30 12:40 BORS/BJR International Travelling Research Fellowships Hosted by Prof Hamish Simpson**

**12:40 14:00 Lunch & Posters @SAF Room 120-122**

## Tuesday 5th September

### 14:00 15:30 Patient Specific Implants & Additive Manufacturing

Chairs: Kartik Logishetty, Kathryn Kneale

14:00 14:30 **Keynote: Dr Jonathan Jeffers**

14:30 15:30 Free Papers

Albert Ngu	The Fretting Corrosion Behavior Of Zirconium Oxide At The Taper Junction In Modular Total Hip Arthroplasty
Vee San Cheong	Optimisation Of 3D Printed Porous Structures For Bone Ingrowth
Ashley Stratton-Powell	Surface Characterisation Of Mobile Bearing Total Ankle Replacement: Explants Vs. In-Vitro Simulation
Richard van Arkel	Push Fit Implant Fixation With Screw Strength Pull Out
Saurabh Lal	Assessment Of The Biocompatibility Of Alpha, Beta And Amorphous Silicon Nitride For Orthopaedic Applications
Oliver Boughton	Femoral Neck Cortical Bone Stiffness Measured By Resonant Ultrasound Spectroscopy Correlates Strongly With Its Density

**15:30 16:00 Close, Thanks, Awards**

