



EORS 2016 BOLOGNA

**EUROPEAN ORTHOPAEDIC
RESEARCH SOCIETY
24th ANNUAL MEETING
14-16 SEPTEMBER 2016
ISTITUTO ORTOPEDICO RIZZOLI**

www.eors2016.org

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Wednesday 14 September

EDUCATIONAL WORKSHOP 1 PRECLINICAL MODELS OF SKELETAL PATHOPHYSIOLOGY

- 11.00-11.20 *In vivo models*
Brigitte von Rechenberg (CH)
- 11.20-11.40 *Application of CAM-technology in musculoskeletal research*
Gwen Sys (BE)
- 11.40-12.00 *The zebrafish model*
Massimo Mariotti (IT)
- 12.00-12.15 *discussion*

EDUCATIONAL WORKSHOP 2 TOOLS FOR MUSCULOSKELETAL FUNCTIONAL ASSESSMENT

- 11.00-11.20 *The need and challenge of functional (outcome) assessment*
Bernd Grimm (NL)
- 11.20-11.40 *Ambulant sensor functional assessment*
Lorenzo Chiari (IT)
- 11.40-12.00 *Wearable sensor activity monitoring*
Dieter Rosenbaum (DE)
- 12.00-12.15 *discussion*

EDUCATIONAL WORKSHOP 3 3D PRINTING

- 11.00 – 11.20 *On 3D Printing for orthotics and footwear: realities and misconception*
Kenny Dalgarno (UK)
- 11.20-11.40 *3D printed patient specific instruments and implants: current clinical use and future perspectives*
Catherine Van Der Straeten (UK)
- 11.40-12.00 *The current experiences at the Istituto Ortopedico Rizzoli and University of Bologna*
Alberto Leardini (IT)
- 12.00-12.15 *discussion*

INDUSTRY WORKSHOPS

- 12.30-13.30 **1** **2** **3**
- 14.00-15.00 **1** **THA 1** **2** **Gait Analysis** **3** **Cartilage Biology and Pathophysiology**

SYMPOSIUM 1 3D PRINTING TECHNOLOGIES IN ORTHOPAEDICS

- 15.00-16.00 *Additive Manufactured 3D scaffolds for osteochondral tissue regeneration*
Lorenzo Moroni (NL)
- The use of rapid prototyping titanium prosthesis in large osteochondral substitution*
Davide Maria Donati (IT)
- Application of 3D printing technology in musculoskeletal tumor surgery: case presentation*
Gwen Sys (BE)

SYMPOSIUM 2 MESENCHYMAL STEM CELL THERAPY FOR BONE DISEASES

- 16.00-16.15 *Therapeutic potential of gene modified MSC in skeletal diseases*
Massimo Dominici (IT)
- 16.15-16.30 *Stimulation of Endochondral Bone Formation: a Route to Enhance MSC Treatment of Bone Disease?*
Wiltrud Richter (DE)
- 16.30-16.45 *Exosomes: natural nanovesicles for tissue healing*
Francesca Perut (IT)
- 16.45-17.00 *Clinical trials: costs versus benefits*
Maurilio Marcacci (IT)

17.30-18.00 OPENING

18.00-19.00 OPENING LECTURE

Space and global health

Simonetta di Pippo, Director – United Nation Office for Outer Space Affairs

19.00-20.00 WELCOME COCKTAIL

Thursday 15 September

08.30-09.30	4 Infection	5 Shoulder & Elbow	6 Bone Biology and Pathophysiology
9:00 – 10:30	Poster pitch - Fracture and Osteoporosis		
09.30-10.30	7 3D Printing	8 Tendon	9 Tumor I
10.30-11.00	Poster view & coffee break		
10.30-11.00	Poster pitch - Tendon		
SYMPOSIUM 3	EUROPEAN SOCIETY OF BIOMECHANICS		
11.00-11.15	<i>3D migration of human osteoblasts in microfluidic devices</i> Jose Manuel Garcia Aznar (ES)		
11.15-11.30	<i>A multiscale approach to understand determinants of cartilage regeneration in the knee joint</i> Ilse Jonkers (BE)		
11.30-11.45	<i>Tibial plateau 3D bone micro-architecture and dynamic joint loads in end-stage knee osteoarthritis</i> Egon Perilli (AUS)		
11.45-12.00	<i>Integration of numerical and experimental approach to tackle biomechanical problems in orthopaedics</i> Luca Cristofolini (IT)		
12.00- 13.00	<u>Women Leadership & Representation</u> <i>Space for women</i> Simonetta Di Pippo (IT) <i>Create your carrier in orthopaedic research</i> Wiltrud Richter (DE) <i>Prioritizing research alongside the clinical career</i> Jeannette Penny (DK)		
12:00 – 13:00	<u>European Grants</u> <i>Mixing the ingredients to obtain an ERC grant: my experience with BOOST</i> Chiara Vitale Boverone (IT) <i>Designing and defending a ERC starting grant proposal: insight from the Reshape project</i> Giovanni Di Pino (IT)		
12:00 – 13:00	10 Hip		
13:00- 14.00	Lunch & Meet the Professor 1-2-3		
SYMPOSIUM 4	EUROPEAN SOCIETY FOR BIOMATERIALS		
14:00-15:00	<i>Steering cell activity for skeletal regeneration by biofabrication technologies</i> Lorenzo Moroni (NL) <i>Influence of biomaterials on the bone forming capacity of adipose-derived cells</i> Arnaud Scherberich (CH) <i>Intervertebral disc regeneration assisted by collagen nanostructures</i> Hans Jörg Meisel (DE)		
15.00-16.00	POSTER SESSION 1 (Coffee break)		
15:00 -16:00	Poster pitch - Biomechanics & Gait Analysis		
15:00 –16:00	Poster pitch - Biomaterials & 3D Printing		
15:00 – 16:00	Poster pitch - Total Joint Arthroplasty		
SYMPOSIUM 5	OSTEOARTHRITIS VS. OSTEOARTHROSIS		
16:00 – 17:00	<i>Osteoarthritis is NOT osteoarthrosis</i> Francis Berenbaum (FR) <i>Remodelling of calcified cartilage and subchondral bone during osteoarthrosis/osteoarthritis</i> Brigitte von Rechenberg (CH)		
17.00- 18.00	11 TKA 1	12 Osteoporosis	13 Foot & Ankle
17:00 – 17:30	Poster pitch - Skeletal Biology & Pathophysiology		
17:00 – 18:00	Poster pitch - Regenerative medicine, bone		
18.00 -19.00	14 THA 2	15 Spine 1	16 Hand
20.30-23.00	Social Dinner		

Friday 16 September

08.30-09.30	17 Regenerative Medicine, Cartilage	18 Fracture	19 Knee
09.30-10.30	20 TKA 2	21 Biomaterials	<u>YI/FORTE Orthopaedics</u>
10.30-11.00	Coffee break & Poster view		
10.30-11.00	Poster pitch – Infection		
10.30-11.00	Poster pitch - Regenerative medicine, cartilage		
SYMPOSIUM 6:	PERSPECTIVES IN ARTHROPLASTY RESEARCH		
11:00 -12:00	<i>Modeling tools to assess total hip and total knee arthroplasty</i> Nico Verdonshot (NL) <i>Safety and toxicity associated with total joint implants</i> Catherine Van Der Straeten (UK) <i>Is Arthroplasty Research jeopardized by its own success?</i> Aldo Toni (IT)		
12.00-12.45	EORS General Assembly		
12.45-13.45	Lunch & Meet-the-Professor 4-5-6		
SYMPOSIUM 7:	PREVENTING BONE FRAILITY		
13:45-14:45	<i>Gut microbiota and bone metabolism</i> Klara Sjögren (SE) <i>The golden rules of nutritional prevention to maintain bone health</i> Veronique Coxam (FR) <i>Inflammation, acidity and bone homeostasis</i> Sofia Avnet (IT)		
15.00-15.30	POSTER SESSION 2 (Coffee break)		
15:00 – 15:30	Poster pitch – Tumor		
15:00 – 15:30	Poster pitch – Imaging		
15:00 – 15:30	Poster pitch – Pain		
SYMPOSIUM 8:	RESEARCH IN SPORT MEDICINE		
15:30-16:30	<i>Prevention of lateral ankle ligament injury</i> Willem Van Mechelen (NL) <i>Neuromuscular and extracellular matrix contributions to muscle weakness in old age</i> Marco Narici (UK) <i>Scientific background behind product development</i> Silvano Zanuso (IT)		
16.30-17.30	22 Regenerative Medicine, Bone	23 Spine 2	24 Tumor 2
17.30-18.30	Awards and farewell cocktail		