



	ROOM 02-03	ROOM 08	ROOM 04-05	ROOM 09
10:00	REGISTRATION & COFFEE			
12:30	<p style="text-align: center;">S1 Cartilage 1</p> <p>Innovative Imaging Diagnostics of Cartilage – What is new?</p> <p>Chairs: Sven Nebelung Daniel Truhn</p> <p>Speakers: Daniel Truhn (D), Jamie MacKay (UK), Sven Nebelung (D). 9</p> <p style="text-align: center;">FP1</p>	<p style="text-align: center;">S2 Joint replacement</p> <p>Novel perspectives in joint arthroplasty and outpatient surgery</p> <p>Chairs: Bert Boonen Martijn Schotanus</p> <p>Speakers: Bert Boonen (NL), Mark Keulen (NL), Yoerie Bemelmans (NL), Soufyan Kalaai (nl), Diewertje Theeuwen (NL)</p>	<p style="text-align: center;">S3 Osteoarthritis & Osteoporosis</p> <p>Activating intrinsic cartilage repair to restore joint homeostasis: from bench to bedside</p> <p>Chairs: Gerjo van Osch Pieter Emans</p> <p>Speakers: Marcel Karperien (NL), Simon Mastbergen (NL)</p> <p style="text-align: center;">FP2 FP3</p>	<p style="text-align: center;">S4 Additively Manufactured Devices</p> <p>Multifaceted Digital Additive Production for Orthopedics</p> <p>Chairs: Johannes Henrich Schleifenbaum Holger Jahr</p> <p>Speakers: Kai-Uwe Schröder, Alexander Kopp (D), Christoph Gayer (D), Kyra van den Heuvel (D)</p>
14:00	<p style="text-align: center;">KEYNOTE 1: Gerjo van Osch</p> <p>Activating endogenous cartilage repair: targeting chondroprogenitor cells from the underlying bone.</p>		<p style="text-align: center;">KEYNOTE 2: Gerard Insley</p> <p>Clinical Challenges in Bone Regeneration :Unmet Needs that Define a New Class of Biomaterial</p>	
14:30	COFFEEBREAK & POSTERWALK			
15:00	<p style="text-align: center;">S5 Clinical</p> <p>Cartilage: state of the art 2019</p> <p>Chairs: Rob Janssen Pieter Emans</p> <p>Speakers: Rob Janssen (NL) , Pieter Emans (NL), Rene van Donkelaar (NL), Sven Nebelung (D) , Roel Custers (NL)</p>	<p style="text-align: center;">S6 Biomaterials & Infection</p> <p>S53P4 Bioactive glass in the treatment of infected bone</p> <p>Chairs: Jan Geurts Nina Lindfors</p> <p>Speakers: Nina Lindfors (Fi), Paul Jutte (NL), Dennis Hulsen (NL)</p>	<p style="text-align: center;">S7 Sarcopenia & Muscle</p> <p>Recent advances in the diagnosis and treatment of sarcopenia</p> <p>Chairs: Yves Henrotin Holger Jahr</p> <p>Speakers: Yves Henrotin (BE), Ivan Bautmans (B), Ali Mobasheri (Lit), Sandra de Breucker (BE)</p>	<p style="text-align: center;">S8 Spine</p> <p>State of the art in Intervertebral Disc Regeneration</p> <p>Chairs: Makarand Risbud Gianluca Vadala</p> <p>Speakers: Gianluca Vadalà (IT), Jerome Guicheux (FR)</p>
16:00				FP4 FP5 FP6
16:30	SNACK & POSTERWALK			
17:00	<p style="text-align: center;">FPS1 Biomechanics & gait lower extremity</p> <p>Chairs: Boyko G Gabriëlle Tuijthof</p> <p style="text-align: center;">FP7 FP8 FP9 FP10 FP11 FP12</p>	<p style="text-align: center;">FPS2 Cellular Regenerative Medicine</p> <p>Chairs:</p> <p style="text-align: center;">FP13 FP14 FP15 FP16 FP17 FP18</p>	<p style="text-align: center;">FPS3 Tendon and ligaments</p> <p>Chairs: Denitsa D Gundula Schulze-Tanzil</p> <p style="text-align: center;">FP19 FP20 FP21 FP22 FP23 FP24</p>	<p style="text-align: center;">FPS4 TKA clinical translation</p> <p>Chairs: Bernd Grimm</p> <p style="text-align: center;">FP25 FP26 FP27 FP28 FP29 FP30</p>
18:00	<p style="text-align: center;">KEYNOTE 3 Ali Mobasheri</p> <p>Calcium homeostasis in chondrocytes: mechanisms and dysfunction in osteoarthritis</p>		<p style="text-align: center;">KEYNOTE 4 Yves Henrotin</p> <p>Recent advances in the diagnosis and treatment of sarcopenia</p>	
18:30	YOUNG INVESTIGATORS EVENT			



EORS 2019
SCIENTIFIC PROGRAM
THURSDAY 3 OCTOBER

	ROOM 02-03	ROOM 08	ROOM 04-05	ROOM 09
07:00	REGISTRATION & COFFEE			
08:00	OFFICIAL OPENING OF EORS 2019			
08:30	S9 Women Leadership Women leadership in musculoskeletal science, orthopaedics and beyond Chairs: Elizabeth Rosado Balmayor Gabriela Graziani (Italy) and Federica Masieri (UK) Speakers: Chiara Vitale-Brovarone (It), Prasad Shastri (D).	S10 Biomechanics Functional assessment in spinal deformity Chairs: Lennart Scheys Lieven Moke Speakers: Ilse Jonkers (B), Erica Beaucage-Gauvreau (AUS),	S11 Infection 1 Modern and Future Technologies for Treating Orthopaedic Infections Chairs: Bart Pijls Wim Schreurs Speakers: Chris Arts, Bart Pijls, Amir Zadpoor, Peter Nibbering	S12 Pathophysiology 1 Engineering and predicting cell shape for controlling cellular and subcellular mechanobiology and cell function Chairs: Bernd Rolauffs Günther Schlunck Speakers: Bernd Rolauffs (D), Günther Schlunck (D), Ryuji Kato (Jap)
09:30		FP31 FP32		
10:00	FP55 Clinical education Chairs:	FP56 THA clinical translation Chairs: Yusuke Kubo	FP57 Biomaterials & infection Chairs: Amir Zadpoor	FP58 Cartilage Pathobiology Chairs: Frank Zauke Marjolein Caron
	FP33 FP34 FP35 FP36 FP37, FP38	FP39 FP40 FP41 FP42 FP43 FP44	FP45 FP46 FP47 FP48 FP49 FP50	FP51 FP52 FP53 FP54 FP55 FP56
11:00	COFFEEBREAK & POSTERWALK			
11:30	S13 Clinical 2 Osteonecrosis of the Femoral Head – Clinical Update 2019 Chairs: Takuaki Yamamoto Wolf Drescher Speakers: Takuaki Yamamoto (JP) , Wolf Dresser (D), Sebastian Lippross, Yusuke Kubo, Frank Hildebrand	S14 Tendon & Muscle Anterior cruciate ligament remodelling - Tendon Chairs: Rob Janssen Jasper Foolen Speakers: Rob Janssen (NL), Jasper Foolen (NL) Jens Snedeker (ETH Zurich) Britt Wildemann (Regensburg De)	S15 Osteoarthritis & Cartilage 1 Controlling Cartilage to Bone transitions for improved treatment of bone defects and osteoarthritis. Chairs: Eric Farell Gerjo van Osch Speakers: Roberte Tasso (It), Frank Zaucke (D)	S16 Bone Tissue Engineering “Bridging benchtop to bedside. Peptides for Bone Tissue Engineering” Chairs: Taco Blokhuis Bert van Rietbergen Speakers: Rick Visser, Jeff Marx, Bert van Rietbergen, Stephen McGillion
12:30			FP57 FP58 FP59	

13:00	LUNCH BREAK AND POSTERWALK			
14:00	KEYNOTE 5 Wim Schreurs Arthroplasty Registries		KEYNOTE 6 Enrique Gomez Barrena Expanded autologous BM-MSCs to treat non-unions in a EU multicentric trial	
14:30	FPS9 Biomaterials technology	FPS10 Tendon morphology and anatomy	FPS11 Clinical translation	FPS12 Bone osseointegration
	Chairs: Nicola Baldini	Chairs: Gundula Schulze-Tanzil	Chairs: Enrique Gomez Barrena	Chairs: Bernd Rolauffs
	FP60 FP61 FP62 FP63 FP64 FP65	FP66 FP67 FP68 FP69 FP70 FP71	FP72 FP73 FP74 FP75 FP76 FP77	FP78 FP79 FP80 FP81 FP82 FP83
15:30	COFFEE BREAK AND POSTERWALK			
16:00	S17 Technology Translation Measuring quality of movement: From lab to clinic	S18 Infection 2 Racing for the surface: Infection and interface bone tissue engineering	S19 Clinical 2 Translation research on mechanisms and functional consequences of growth problems in developing children	S20 Osteoarthritis & Cartilage 2 Cartilage microenvironment and Osteoarthritis: impact on Treatment Options.
	Chairs: Walter van der Weegen M. Lipperts	Chairs: Thomas Webster Bingyun Li	Chairs: Adhiambo Witlox Marieke van der Steen	Chairs: Feng Sheng Wang Holger Jahr
	Speakers: H. Boers, M. Lipperts, W. van der Weegen, P. Van Duin	Speakers: Thomas Webster, Bingyun Li, Ming Chen, Karen Fox, David Cruz, Jessica Jennings, David Millis	Speakers: Adhiambo Witlox (NL), Marieke van der Steen (NL), Marjolein Caron (NL), Rachel Senden (NL)	Speakers: Feng-Sheng Wang (Tai), Holger Jahr (D), Wei-Shiung Lian (Tai)
17:00	FP84 FP85		FP86	FP87 FP88 FP115
17:30	KEYNOTE 7 Makarand Risbud Crosstalk between pH regulation and metabolic pathways in the intervertebral disc		KEYNOTE 8 Gun-Il Im miR-892b as a novel inhibitor of hypertrophy in chondrogenic differentiation of mesenchymal stem cells	
18:00	FPS13 Surgical technique optimisation	FPS14 Arthroplasty revisited	FPS15 Implant fixation	FPS16 Molecular Cartilage Regeneration
	Chairs: Stijn Bolink	Chairs: Boyko G	Chairs: Tim Welting Marjolein Caron	
	FP89 FP90 FP91 FP92 FP93 FP94	FP95 FP96 FP97 FP98 FP99 FP100	FP101 FP102 FP103 FP104 FP105 FP106	FP107 FP108 FP109 FP110 FP111 FP112
19:00	SOCIAL EVENT EORS 2019			



EORS 2019
SCIENTIFIC PROGRAM
FRIDAY 4 OCTOBER

	ROOM 02-03	ROOM 08	ROOM 04-05	ROOM 09
07:00	REGISTRATION & COFFEE			
08:00	<p style="text-align: center;">S21 Biomechanics & Knee</p> <p>The clinical situation and novel treatment strategies for meniscus repair</p> <p>Chairs: Girish Pattappa Peter Angele</p> <p>Speakers: Annemieke van Haverer (BE), Nicolo Danila Vitale (IT)</p>	<p style="text-align: center;">S22 Registries</p> <p>Outcomes of young hip and knee patients from the Dutch Arthroplasty Register</p> <p>Chairs: Wim Schreurs Young investigator</p> <p>Speakers: Wim Schreurs (NL), Liza van Steenberg (NL)</p>	<p style="text-align: center;">S23 Clinical 3</p> <p>Polytrauma: Importance of micro-vesicles on fracture healing</p> <p>Chairs: Frank Hildebrand Klemens Horst</p> <p>Speakers: M. Van Griensven, F. Bläsius, J. Greven, E. Karasu</p>	<p style="text-align: center;">S24 RSA</p> <p>“RSA (Röntgen Stereofotogrammetrische Analyse): current concepts and future prospects”.</p> <p>Chairs: Petra Heesterbeek Bart Kaptein</p> <p>Speakers: Eric Garlink, Bart Kaptein (NL), Petra Heesterbeek (NL)</p>
09:00	<p>FP113 FP114 FP115</p>	<p>FP116 FP117 FP118 FP203</p>	<p>FP119</p>	<p>FP120 FP121 FP204</p>
09:30	<p style="text-align: center;">FPS17 Biomechanics lower extremity</p> <p>Chairs:</p> <p>FP122 FP123 FP124 FP125 FP126 FP127</p>	<p style="text-align: center;">FPS18 Bone Biomechanics</p> <p>Chairs:</p> <p>FP128 FP129 FP130 FP131 FP132 FP133</p>	<p style="text-align: center;">FPS19 Bone biology</p> <p>Chairs: Britt Wildemann</p> <p>FP134 FP135 FP136 FP137 FP138 FP139</p>	<p style="text-align: center;">FPS20 Bone fundamental research</p> <p>Chairs:</p> <p>FP140 FP141 FP142 FP143 FP144 FP145</p>
10:30	COFFEEBREAK & POSTERWALK			
11:00	GENERAL ASSEMBLY EORS			
11:30	<p style="text-align: center;">KEYNOTE 9 Britt Wildemann</p> <p>Optimized bone grafting material to prevent infection and promote regeneration</p>		<p style="text-align: center;">KEYNOTE 10 Giorgio Perino</p> <p>The pathology contribution to adverse local tissue reactions to orthopedics implants</p>	
12:00	<p style="text-align: center;">FPS21 Functionalised biomaterials</p> <p>Chairs: Lorenzo Moroni</p> <p>FP146 FP147 FP148 FP149 FP150 FP151</p>	<p style="text-align: center;">FPS22 Imaging</p> <p>Chairs:</p> <p>FP152 FP153 FP154 FP155 FP156 FP157</p>	<p style="text-align: center;">FPS23 Clinical translation</p> <p>Chairs: Cathrine v/s Straeten</p> <p>FP158 FP159 FP160 FP161 FP162 FP163</p>	<p style="text-align: center;">FPS24 Arthroplasty clinical outcome</p> <p>Chairs:</p> <p>FP164 FP165 FP166 FP167 FP168 FP169</p>

13:00	YI MEET THE MENTOR LUNCH	FAST LUNCH SYMPOSIUM	LUNCHBREAK AND POSTERWALK	
14:00	S25 New Technologies / clinical Wearable patient monitors for outcome assessment and rehabilitation in orthopaedics	S26 3D printing Additive Manufacturing technologies for the design and fabrication of smart orthopedic implants	S27 Imaging High resolution in vivo CT imaging of bone	S28 Pathophysiology 2 Recent advances in controlling cell phenotype, function and secretome in vitro and in vivo
	Chairs: Bernd Grimm Kenneth Meijer	Chairs: Lorenzo Moroni Nicola Baldini	Chairs: Bert van Rietbergen J. Van den Bergh	Chairs: Dimitrios Zeugolis Manuela Gomes
	Speakers: Bernd Grimm / Kenneth Meijer (Maastricht)/ Jos Aarts (Maastricht)	Speakers: Martijn van Griensven, Wojtek Swieszkowski	Speakers: Piet Geusens (Univ. Hasselt/Univ. Maastricht) Harry van Lenthe (KU Leuven), Frans Heyer (Univ. Maastricht), Ellis de Waard / Cindy Sarodnik (Univ. Maastricht), Melissa Bevers (TU Eindhoven/ Univ. Maastricht)	Speakers: Manuela Gomes, Sandra Hofmann Boss, Marianna Tryfonidou, Jayesh Dudhia, Arun Thirumanran
15:00	FP170 FP171	FP172 FP173 FP174		
15:30	KEYNOTE 11 Bernd Rolauffs The spatial organization of cells within their native tissue as image-based biomarker for early disease detection.		KEYNOTE 12 Hamish Simpson T.B.A.	
16:00	COFFEE BREAK AND POSTERWALK			
16:30	S29 3D printed medical devices 3D printed absorbable metal implants: from bench to bedside	S30 Bone reconstruction Limb lengthening and reconstruction. State of the art and need for translational research.	S31 Infection 3 Surface Engineering Strategies against Orthopaedic Implant Challenges	S32 Young Investigators Meeting EORS Young Investigator symposium: international career development
	Chairs: Chris Arts Holger Jahr	Chairs: Søren Kold Markus Frost	Chairs: Saber Amin Yavari Sara Bagherifard	Chairs: Gabriela Graziani Jeroen Geurts
	Speakers: <i>Tim van Cleynenbreughel (Be) , Joris Ploegmakers (NL), Holger Jahr (D)</i>	Speakers: <i>Søren Kold (Den), Markus Winther Frost (Den), Ming Shen</i>	Speakers: <i>Saber Amin Yavari, Amir Zadpoor, Sara Bagherifard, Martijn Riool, Michiel Croes (NI)</i>	Speakers: <i>Lorenzo Moroni (NI), Enrico Sassoni (It), Loek Verlaan (NI), Stijn Bolink (NI)</i>
17:30	FP175 FP176	FP177 FP178		
18:00	FPS25 Arthroplasty innovations	FPS26 Biologics & biomaterials	FPS27 Spine	FPS28 Clinical translation II
	Chairs:	Chairs: Chris Arts	Chairs: Gianluca Vadala	Chairs:
	FP179 FP180 FP181 FP182 FP183 FP184	FP185 FP186 FP187 FP188 FP189 FP190	FP191 FP192 FP193 FP194 FP195 FP196	FP197 FP198 FP199 FP200 FP201 FP202
19:00	AWARDS & CLOSING CEREMONY			