POCKET PROGRAM
MARCH 17–20, 2023

Challenges Ahead in OA Research

2023 OARSI WORLD CONGRESS ON OSTEOARTHRITIS
Sheraton Denver Downtown
DENVER, COLORADO
OARSI WORLD
CONGRESS
PROGRAM
PLANNING
COMMITTEE

2023 CONGRESS
CHAIR
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The University of Hong Kong
Hong Kong

2023 ABSTRACT CHAIR
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Yolande Ramos • Netherlands
Frank Roemer • Germany
Jos Runhaar • Netherlands
Hiroshige Tateuchi • Japan
All events will take place at the Sheraton Denver Downtown Hotel from March 17-20, 2023.

Registration Hours
The registration desk will be open during the following hours:
(Hours are subject to change)

Friday, March 17th ................................. 7:00 AM – 7:30 PM
Saturday, March 18th ............................ 7:00 AM – 6:30 PM
Sunday, March 19th .............................. 7:00 AM – 6:30 PM
Monday, March 20th ............................. 7:00 AM – 12:00 PM

Ticketed Events
Breakfast Workshops
Breakfast workshops will take place Friday, Saturday and Sunday morning. These workshops are ticketed events and there is an additional registration fee to attend these workshops, and space is limited. Please see the registration desk for more information and availability.

Breakfast Poster Tours
Four concurrent breakfast poster tours will take place Saturday and Sunday morning. These tours are ticketed events and there is an additional fee to attend the tour. Each tour only accommodates 20 people. Please see the registration desk for more information and availability.
CME ACCREDITATION
ACCREDITATION STATEMENT
In support of improving patient care, this activity has been planned and implemented by Amedco LLC and Osteoarthritis Research Society International. Amedco LLC is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

PHYSICIANS (ACCME) CREDIT DESIGNATION
Amedco LLC designates this live activity for a maximum of 20.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

ABSTRACT EMBARGO POLICY
Accepted abstracts are made available to the public on the OARSI website and are published in a special supplement of Osteoarthritis and Cartilage. Late-breaking abstracts will be published in the May issue of Osteoarthritis and Cartilage.
SPEAKER READY ROOM

SPEAKER READY ROOM HOURS

Friday, March 17th ............................................. 7:00 AM – 6:30 PM
Saturday, March 18th ................................. 7:00 AM – 6:30 PM
Sunday, March 19th ............................... 7:00 AM – 5:30 PM
Monday, March 20th .......................... 7:00 AM – 11:00 AM

The Speaker Ready Room is located in Plaza Court 7. The Speaker Ready Room is provided for presenters to prepare for their presentations and to ensure a seamless integration of a wide variety of audiovisual technologies in the various meeting rooms. By checking in at the Speaker Ready Room and following these simple guidelines, speakers will greatly contribute to the success of the meeting.

OARSI requests all presenters to use PowerPoint™ Presentations. All meeting rooms will have presentation computers and will be networked from a central computer located in the Speaker Ready Room. Presentations will be downloaded from the Speaker Ready Room and sent to the respective meeting room on a secured intranet circuit approximately 45 minutes prior to the start of each session.

Speakers are encouraged and expected to bring their presentation to the Speaker Ready Room where they will have the opportunity to review their presentations or make any last minute changes. All speakers must check into the Speaker Ready Room.
EXHIBITS
The exhibits are an integral part of the complete education experience and will feature the latest in research products in the field of osteoarthritis. Please make time during the meeting to visit the exhibits during their open hours in Plaza Exhibits.

EXHIBIT HOURS
Friday, March 17th ............................................. 7:30 PM – 9:00 PM
Saturday, March 18th ........................................ 10:15 AM – 5:00 PM
Sunday, March 19th ........................................... 10:15 AM – 5:00 PM

POSTER SESSIONS
The Posters Sessions are an important educational part of this meeting. We hope you support and attend these scientific presentations.

Posters may be viewed during the following times:

POSTER SESSION 1
Saturday, March 18 ............................................. 3:30 PM – 5:00 PM
Odd Poster Numbers: 3:30 PM – 4:15 PM
Even Poster Numbers: 4:15 PM – 5:00 PM

POSTER SESSION 2
Sunday, March 19 ............................................. 3:30 PM – 5:00 PM
Odd Poster Numbers: 3:30 PM – 4:15 PM
Even Poster Numbers: 4:15 PM – 5:00 PM

Poster set up is to convene on Friday, March 17, 2023, from 12:00 PM – 7:00 PM.

Posters MUST remain on display until 5:00 PM on Sunday, March 19, 2023, at which time authors will be responsible for dismantling. Any posters remaining after 5:30 PM on Sunday will be removed by staff and OARSI cannot be responsible for your poster.
THE OSTEOARTHRITIS RESEARCH SOCIETY INTERNATIONAL would like to thank the corporate supporters of OARSI Initiatives, Meetings and Congress. It is with the support of industry that OARSI can continue its mission to prevent and treat osteoarthritis through the promotion and presentation of research, education and the worldwide dissemination of new knowledge.

SUPPORT

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![Nordic Bioscience](image)
![Nordic Bioscience](image)
![CPUM](image)
![Pacira Biosciences, Inc.](image)
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![Rheumatology](image)
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![UHN](image)
![TrialSpark](image)
![Viatris](image)

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EXHIBITOR DIRECTORY

Arthritis National Research Foundation ......................................................... Booth 11
Biomomentum Inc. ......................................................................................... Booth 3
Bioseb ............................................................................................................ Booth 6
OPUM Technologies Ltd. ................................................................................. Booth 5
Paradigm .......................................................................................................... Booth 9
Transpharmation Ltd. ......................................................................................... Booth 10
TrialSpark ........................................................................................................ Booth 4
The Journal of Rheumatology ............................................................................ Booth 12

DISCUSSION GROUP MEETINGS

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<thead>
<tr>
<th>MEETING</th>
<th>DATE</th>
<th>TIME</th>
<th>ROOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA Pain</td>
<td>Friday, March 17</td>
<td>12:00 PM – 1:30 PM</td>
<td>Governor’s Square 17</td>
</tr>
<tr>
<td>Joint Effort Initiative (JEI)</td>
<td>Friday, March 17</td>
<td>12:30 PM – 2:00 PM</td>
<td>Governor’s Square 16</td>
</tr>
<tr>
<td>Rehabilitation</td>
<td>Saturday, March 18</td>
<td>12:30 PM – 2:00 PM</td>
<td>Governor’s Square 15</td>
</tr>
<tr>
<td>Imaging</td>
<td>Saturday, March 18</td>
<td>6:45 PM – 8:15 PM</td>
<td>Governor’s Square 15</td>
</tr>
<tr>
<td>OA Prevention Related to Sport, Exercise, and Physical Activity (SEPA)</td>
<td>Sunday, March 19</td>
<td>6:30 PM – 8:00 PM</td>
<td>Governor’s Square 15</td>
</tr>
<tr>
<td>International Foot and Ankle OA Consortium</td>
<td>Sunday, March 19</td>
<td>7:00 PM – 8:30 PM</td>
<td>Governor’s Square 16</td>
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### OARSI Board and Committee Meetings

<table>
<thead>
<tr>
<th>MEETING</th>
<th>DATE</th>
<th>TIME</th>
<th>ROOM</th>
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<tbody>
<tr>
<td>Board</td>
<td>Thursday, March 16</td>
<td>8:00 AM – 3:00 PM</td>
<td>Governor’s Square 17</td>
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<tr>
<td>OAC Editors</td>
<td>Friday, March 17</td>
<td>7:30 AM – 9:00 AM</td>
<td>Governor’s Square 10</td>
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<tr>
<td>OACO Editors</td>
<td>Friday, March 17</td>
<td>10:00 AM – 11:30 AM</td>
<td>Plaza Court 4</td>
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<tr>
<td>OAC Board</td>
<td>Saturday, March 18</td>
<td>7:30 AM – 9:00 AM</td>
<td>Vail</td>
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<tr>
<td>OACO Board</td>
<td>Saturday, March 18</td>
<td>10:00 AM – 11:30 AM</td>
<td>Vail</td>
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<tr>
<td>Asian Alliance Committee</td>
<td>Saturday, March 18</td>
<td>12:30 PM – 2:00 PM</td>
<td>Governor’s Square 12</td>
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<tr>
<td>Communications Committee</td>
<td>Saturday, March 18</td>
<td>12:30 PM – 2:00 PM</td>
<td>Governor’s Square 11</td>
</tr>
<tr>
<td>Early Career Investigator (ECI) Committee</td>
<td>Saturday, March 18</td>
<td>12:30 PM – 2:00 PM</td>
<td>Governor’s Square 10</td>
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<tr>
<td>Ethics Committee</td>
<td>Saturday, March 18</td>
<td>12:30 PM – 2:00 PM</td>
<td>Plaza Court 3</td>
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<tr>
<td>Program Planning Committee</td>
<td>Saturday, March 18</td>
<td>12:30 PM – 2:00 PM</td>
<td>Governor’s Square 17</td>
</tr>
<tr>
<td>Finance Committee</td>
<td>Sunday, March 19</td>
<td>7:00 AM – 8:30 AM</td>
<td>Plaza Court 3</td>
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<tr>
<td>Strategic Alliance Committee</td>
<td>Sunday, March 19</td>
<td>12:30 PM – 2:00 PM</td>
<td>Plaza Court 3</td>
</tr>
<tr>
<td>Engagement Committee</td>
<td>Monday, March 20</td>
<td>7:30 AM – 8:30 AM</td>
<td>Governor’s Square 17</td>
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</tbody>
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*All committee meetings will take place within the Sheraton Denver Downtown Hotel.*
### THURSDAY, MARCH 16

**4:00 PM – 8:00 PM**

<table>
<thead>
<tr>
<th>Event</th>
<th>Details</th>
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</table>
| Clinical Trials Symposium*               | Lessons learned from the first 6 years: 2017-2022, from Las Vegas to Denver  
  Virginia Kraus  
  Disease-modifying osteoarthritis drug (DMOAD) trial bank  
  David Hunter  
  Clinical Research Updates  
  Jeymi Tambiah • Biosplice  
  Andrea Derix • Grüenthal  
  Matthias Schieker • Novartis  
  Niti Goel • TrialSpark  
  Moshe Weinstein • Moebius Medical, in collaboration with Sun Pharma  
  Donna Skerrett • Paradigm  
  Howard Rutman • Xalud Therapeutics  
  Thomas Chalberg • Genascence  
  Ron Ellis • Pacira Biosciences  
  Sungsu Han • Kolon TissueGene  
  Francis Berenbaum • 4Moving Biotech/4P-Pharma |

*Additional ticketed fee required

### FRIDAY, MARCH 17

**PRE-CONGRESS WORKSHOPS**

**8:00 AM – 11:15 AM**

<table>
<thead>
<tr>
<th>Workshop</th>
<th>Organizers</th>
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</table>
| Pre-Congress Workshop 1 – The Forgotten Joints: What Can We Learn from Research Beyond the Knee?  
  Organized by the Early Career Investigators | Spine Osteoarthritis  
  Manuela Ferreira  
  Hip Osteoarthritis  
  May Arna Risberg  
  Shoulder Osteoarthritis  
  Ilana Ackerman  
  Foot and Ankle Osteoarthritis  
  Kade Patterson  
  Hand Osteoarthritis  
  Ida K. Haugen  
  Multi-Joint Osteoarthritis  
  Amanda Nelson |

*Additional ticketed fee required*
10:00 AM – 12:30 PM
Pre-Congress Workshop 2: Designing Human Intervention Studies to Prevent Osteoarthritis After Knee Injury: An Interdisciplinary Workshop

GOVERNOR’S SQUARE 15

Preventing Post-Traumatic OA Illness and Disease: Vision and Challenges

What is Post-Traumatic Osteoarthritis, Who Develops it, and What is the Goal of an Intervention?
Jackie Whittaker

Defining the Best Outcome Measures, Their Timing and Relationships: Symptoms, Structure, and Molecules
Stefan Lohmander

Bridging the Gap to Clinical Trials

Considerations for Post-Traumatic Osteoarthritis: A Regulatory Perspective
Lee Simon

Can Pre-Clinical Models and Experimental Medicine Studies Help Intervention Selection and Trial Design?
Nicole Gerwin

From Around the Real World: Current Examples of Trials, Their Interventions, and Comparators

Exercise/Physical Therapy (SUPER-KNEE)
Adam Culvenor

Surgical (REMOTE-Trial, COMPARE)
Duncan Meuffels

Pharmacological (OACTN Initiative)
David Felson

8:00 AM – 10:30 AM
Pre-Congress Workshop 3: The STEpUP OA Consortium – Large Scale Agnostic Molecular Analysis of Synovial Fluid to Search for Endotypes in OA

PLAZA BALLROOM DEF

Background, Rationale, and Introduction to The STEpUP OA Consortium
Tonia Vincent

Patient Data and Sample Management
Fiona Watt

QC Analysis of Somalogic Dataset
Luke Jostins

Are There Molecular Endotypes in OA?
Yun Deng

Molecular and Clinical Correlations
Tom Perry
<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Abstract</th>
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<tbody>
<tr>
<td>1:45 PM – 3:30 PM</td>
<td>Opening Plenary Session 1: Emerging Therapeutics for OA</td>
</tr>
</tbody>
</table>
| 2:00 PM – 2:25 PM | **Current Landscape of Regenerative Medicine Approaches in Osteoarthritis**  
  *Frank Barry* |
| 2:25 PM – 2:50 PM | **When Neuro-Immune Communication Meets Arthritis**  
  *Kevin J. Tracey* |
| 2:50 PM – 3:00 PM | **O-1**  
  INCREASED JOINT LOADING 1 MONTH AFTER PLATELET-RICH PLASMA TREATMENT OF KNEE OA IS ASSOCIATED WITH IMPROVED CLINICAL OUTCOMES 2 YEARS LATER  
  *J. He*¹², J. C. Erhart-Hedlik¹², C. R. Chu¹²; ¹Stanford Univ., Stanford, CA, ²VA Palo Alto Hlth.Care System, Palo Alto, CA |
| 3:00 PM – 3:10 PM | **O-2**  
  SAFETY AND PRELIMINARY EFFICACY OF PCRX201, AN INTRA-ARTICULAR GENE THERAPY FOR KNEE OSTEOARTHRITIS: A PHASE 1, OPEN-LABEL, SINGLE ASCENDING DOSE STUDY  
  *S. Cohen*¹, A. Kivitz², L. Klassen³, M. Nakazawa³, D. Parenti³, M. DiGiorgi³, R. Winston³; ¹Metroplex Clinical Res. Ctr., Dallas, TX, ²Altoona Arthritis and Osteoporosis Ctr., Duncansville, PA, ³Univ. of Nebraska Med. Ctr., Omaha, NE, ⁴Pacira BioSci.s, Inc., Parsippany, NJ |
| 3:10 PM – 3:20 PM | **O-3**  
  COMBINATION OF COMPUTATIONAL METHODS WITH A DRUG REPURPOSING STRATEGY IDENTIFIES A COMPOUND TARGETING CHONDROCYTE HYPERTROPHY  
  *J. Veldman*¹, M. N. Ferrao Blanco¹, N. K. Kops¹, K. Sivasubramaniyan¹², J. van Rooij¹, E. Farrell¹, G. J. van Osch¹; ¹Erasmus MC, Rotterdam, Netherlands, ²Galapagos Nederland, Leiden, Netherlands |
| 3:30 PM – 3:45 PM | **Break** |
| 3:45 PM – 5:15 PM | Plenary Session 2: Highest Rated Abstracts by Early Career Investigators |
| 3:45 PM – 3:55 PM | **O-4**  
  AUTOMATIC IDENTIFICATION OF PAIN-ASSOCIATED IMAGING ABNORMALITIES FROM KNEE MRI IMAGING BY DEEP GENERATIVE NETWORKS  
  *P-H. Lian, T. Chuang, Y-H. Yen, G. Chang*; Natl. Taiwan Univ., Taipei, Taiwan |
3:55 PM – 4:05 PM

O-5
RADIOMICS FEATURES OF INFRAPATELLAR FAT PAD ARE ASSOCIATED WITH SYMPTOMATIC AND RADIOGRAPHIC POST-TRAUMATIC OSTEOARTHRITIS AT 10+ YEARS AFTER ACL RECONSTRUCTION
S. Khan1,2,3, R. Larkey1,2, N. Obuchowski1,4, S. Gaj1,2, J. Kim1,2, M. Li1,2, B. Eck1,3, C. S. Winalski1,2,3, F. Altahawi1,3, M. H. Jones5, L. J. Huston6, K. D. Harkins7, M. V. Knopp8, C. C. Kaeding9, K. P. Spindler1,10, X. Li1,2,3, 1Program of Advanced Musculoskeletal Imaging, Cleveland, OH, 2Dept. of BioMed. Engineering, Lerner Res. Inst., Cleveland, OH, 3Dept. of Diagnostic Radiology, Imaging Inst., Cleveland, OH, 4Dept. of Quantitative Hlth.Sci., Lerner Res. Inst., Cleveland, OH, 5Dept. of Orthopedic Surgery, Brigham and Women’s Hosp., Boston, MA, 6Dept. of Orthopedics and Rehabilitation, Vanderbilt Univ., Nashville, TN, 7Dept. of BioMed. Engineering, Vanderbilt Univ., Nashville, TN, 8Wright Ctr. of Innovation in BioMed. Imaging, The Ohio State Univ., Columbus, OH, 9Dept. of Orthopedic Surgery, The Ohio State Univ., Columbus, OH, 10Dept. of Orthopedic Surgery, Cleveland Clinic, Cleveland, OH

4:05 PM – 4:15 PM

O-6
COMPARATIVE EFFICACY OF INTERVENTIONS FOR REDUCING PSYCHOLOGICAL SYMPTOMS IN PATIENTS WITH OSTEOARTHRITIS: A NETWORK META-ANALYSIS
Y. Li1, Y. Mai1, X. Fang1, X. Shi1, C. Ding1,2,3, Z. Zhu1; 1Clinical Res. Ctr., Zhujiang Hosp., Southern Med. Univ., Guangzhou, China, Guangzhou, China, 2Guangzhou First People’s Hosp., Sch. of Med., South China Univ. of Technology, Guangzhou, China, 3Affiliated Hosp. of Youjiang Med. Univ. for Nati.ities, Baise, China

4:15 PM – 4:25 PM

O-7
ANTERIOR KNEE PAIN IS ASSOCIATED WITH 2-YEAR COMPARTMENT SPECIFIC PATELLOFEMORAL CARTILAGE WORSENING: THE MOST STUDY
C. Lanois1, N. Collins2, T. Neogi3, A. Guermazi4, F. Roemer5, M. LaValley6, M. Nevitt7, J. Torner6, C. Lewis7, J. Stefanik7; 1Northeastern Univ., Boston, MA, 2Univ. of Queensland, Brisbane, Australia, 3Boston Univ. Sch. of Med., Boston, MA, 4Boston Univ., Boston, MA, 5Friedrich-Alexander Univ., Erlangen-Nuremberg, Germany, 6Boston Univ. Sch. of Publ. Hlth., Boston, MA, 7Univ. of California at San Francisco, San Francisco, CA, 8Univ. of Iowa, Iowa City, IA, 9Univ. of Alabama at Birmingham, Birmingham, AL

4:25 PM – 4:35 PM

O-8
PHARMACOLOGICAL MODULATION OF KRÜPPEL-LIKE FACTOR 4 REDUCES THE SEVERITY OF EXPERIMENTAL OSTEOARTHRITIS VIA TISSUE PROTECTION AND REGENERATION
M. Kawata1, M. Olmer1, K. A. Johnson2, M. K. Lotz2; 1Scripps Res., La Jolla, CA, 2A Div. of Scripps Res., La Jolla, CA
4:35 PM – 4:45 PM  O-9  
SUBCHONDRAL BONE REMODELING DIFFERS BETWEEN ANTERIOR CRUCIATE LIGAMENT TRANSECTION, NON-INVASIVE ANTERIOR CRUCIATE LIGAMENT RUPTURE, AND MEDIAL MENISCUS TRANSECTION MODELS OF POST-TRAUMATIC OSTEOARTHRITIS  
M. Bowe, T. AJAYI, A. OBERDORFER, B. SHARMA, K. D. ALLEN; Univ. of Florida, Gainesville, FL

4:45 PM – 4:55 PM  O-10  
TRANSCRIPTOMIC PROFILING OF OSTEOARTHRITIS PATIENT SYNOVIAL MACROPHAGES REVEALS A TOLERIZED PHENOTYPE COMPOUNDED BY A WEAK CORTICOSTEROID RESPONSE.  
C. Wang1, R. De Francesco1, L. A. Lamers1, S. Rinzema1, S. Fröhlich1, P. L. van Lent2, C. Logie1, M. H. van den Bosch1; 1Radboud Univ., Nijmegen, Netherlands, 2Radboud Univ. Med. center, Nijmegen, Netherlands

4:55 PM – 5:05 PM  O-11  
THE REGULATION OF NGF, SEMAPHORINS AND GLUTAMATE SIGNALLING BY MECHANICAL LOADING AND INFLAMMATION IN A 3-DIMENSIONAL MODEL OF HUMAN STEM CELL DERIVED OSTEOCYTES  
R. Jones, D. Mason, S. Gilbert; Cardiff Univ., Cardiff, United Kingdom

5:05 PM – 5:15 PM  O-12  
COLLABORATIVE MODEL OF CARE BETWEEN ORTHOPAEDICS AND ALLIED HEALTHCARE PROFESSIONALS (CONNACT) FOR KNEE OSTEOARTHRITIS: 12-MONTHS FOLLOW-UP OF AN EFFECTIVENESS-IMPLEMENTATION HYBRID TRIAL  

5:15 PM – 5:30 PM  BREAK  

PLAZA BALLROOM FOYER
5:30 PM – 6:30 PM  
Opening Ceremony & Awards Recognition

**PLAZA BALLROOM ABC**

**Recognition of Lifetime Achievement Award**  
*Jeffrey N. Katz, MD, MSc*

**Recognition of Basic Science Award Winner**  
*Christopher Little, PhD*

**Recognition of Clinical Science Award Winner**  
*Kim Bennell, PhD*

**Recognition of Rising Star Awards**

- **Basic Science**  
  *Suzanne Eldridge, PhD*

- **Clinical Science**  
  *Jos Runhaar, PhD*

6:30 PM – 7:30 PM  
Plenary Session 3: Keynote Address – OA Research: Past and Future

**PLAZA BALLROOM ABC**

6:30 PM – 6:55 PM  
*Is Osteoarthritis a Mismatch Disease?*  
*Ian Wallace*

6:55 PM – 7:20 PM  
*Have We Been Driving in the Wrong Lane? Pivoting from Past Setbacks to Future Therapeutic Successes*  
*Francis Berenbaum*

7:30 PM – 9:00 PM  
OPENING RECEPTION WITH EXHIBITORS

**SATURDAY, MARCH 18**

7:30 AM – 8:30 AM  
Breakfast Poster Tours*

**PLAZA EXHIBITS**

**Poster Tour 1:** Clinical Investigations and Imaging  
Guide: Muneaki Ishijima

**Poster Tour 2:** Prevention and Rehabilitation  
Guide: Jason Rockel

**Poster Tour 3:** Biology and Pathogenesis  
Guide: Timothy McAlindon

**Poster Tour 4:** Advanced Technologies and Therapeutics  
Guide: Jerome Guicheux

*Additional ticketed fee required*
7:30 AM – 8:30 AM  Breakfast Workshop A: ESCEO-OARSI Symposium: Why or Why Not Osteoporosis Medications Work for Osteoarthritis

GOVERNOR’S SQUARE 15

Impact of Anti-Osteoporosis Medications on Pre-Clinical Models of Osteoarthritis
Roland Chapurlat

Outcomes of Clinical Trials Having Assessed Anti-Osteoporosis Drugs in Osteoarthritis
Jean-Yves Reginster

Why Did the Studies Assessing Anti-Osteoporosis Drugs in Osteoarthritis Fail
Margreet Kloppenburg

Subchondral Bone as A Target for Anti-Osteoarthritis Medications: How Can We Identify the Most Appropriate?
Rik Lories

*Additional ticketed fee required

7:30 AM – 8:30 AM  Breakfast Workshop B: The OAAA and OARSI Present Opportunities for Collaborations in Research and Public Health

GOVERNOR’S SQUARE 14

Opportunities for Research and Dissemination Collaboration

Evidence-Based Interventions: Walk with Ease
David Hunter

Lower Limb Injury Prevention: Remain in the Game
Jeff Driban

Expanding Community-Clinical Linkages Opportunities for Research and Dissemination: OA Care Tools
Kelli Allen

*Additional ticketed fee required
## Concurrent Session 1: Risk Factors and OA Prevention

**PLAZA BALLROOM ABC**

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Details</th>
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<tbody>
<tr>
<td>8:45 AM – 8:55 AM</td>
<td><strong>O-13</strong></td>
<td>EXERCISE THERAPY COMPARED TO USUAL CARE IN PEOPLE WITH EARLY-STAGE KNEE OA: AN INDIVIDUAL PATIENT DATA META-ANALYSIS FROM THE OA TRIAL BANK</td>
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<tr>
<td></td>
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<td>M. van Middelkoop¹, D. Schiphof⁴, M. Hattle⁶, J. M. Simkins³, K. Bennell⁴, R. S. Hinman², K. D. Allen⁴, J. Knoop⁷, M. E. van Baar⁶, D. Bosse⁶, J. Wallis¹⁰, M. V. Hurley¹¹, M. Holden², S. M. Bierma-Zeinstra¹²; ¹Erasmus MC Med. Univ., Rotterdam, Netherlands, ²Keele Univ., Keele, United Kingdom, ³Keele Univ., Keele, Netherlands, ⁴The Univ. of Melbourne, Melbourne, Australia, ⁵The Univ. of Melbourne, Melbourne, Netherlands, ⁶Univ. of North Carolina at Chapel Hill, Chapel Hill, NC, ⁷Vrije Univ.it Amsterdam, Amsterdam, Netherlands, ⁸Maasstad Ziekenhuis, Rotterdam, Netherlands, ⁹Amsterdam Univ. of Applied Sci., Amsterdam, Netherlands, ¹⁰Cabrini Hlth., Melbourne, Australia, ¹¹Kingston Univ. London, London, United Kingdom</td>
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<td><strong>O-15</strong> PREVALENCE OF EARLY KNEE OSTEOARTHRITIS ILLNESS USING KNEE INJURY AND OSTEOARTHRITIS OUTCOME SCORE CRITERIA FOLLOWING ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION IN NEW ZEALAND</td>
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<td>S. Ward¹, D. O’Brien⁵, R. Meiring¹, H. Love⁵, M. Harkey¹; ¹Univ. of Auckland, Auckland, New Zealand, ⁵AUT Univ., Auckland, New Zealand, ⁷Forte Sports, Christchurch, New Zealand, ⁸Michigan State Univ., East Lansing, MI</td>
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<td><strong>O-16</strong> CO-CREATING INJURY PREVENTION EDUCATION AND TRAINING FOR YOUTH HANDBALL PLAYERS TARGETING END-USERS AT THE INDIVIDUAL, TEAM AND ORGANIZATIONAL LEVELS</td>
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<td>E. Ageberg¹, S. Bunke¹, J. Linnell², K. Moesch¹,²; ¹Lund Univ., Lund, Sweden, ²Swedish Handball Federation, Stockholm, Sweden, ³Malmö Univ., Malmö, Sweden</td>
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<td><strong>O-17</strong> IMPACT OF WEIGHT LOSS AND LOCAL SUBCUTANEOUS FAT ON KNEE JOINT SYNOVITIS OVER 4 YEARS: DATA FROM THE OSTEOARTHRITIS INITIATIVE</td>
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<td>M. T. Loeffler¹, P. Giesler¹, J. A. Lynch¹, G. B. Joseph¹, N. E. Lane², M. Nevitt¹, C. McCulloch¹, T. M. Link¹; ¹Univ. of California San Francisco, San Francisco, CA, ²UC Davis Hlth., Sacramento, CA</td>
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PLAZA BALLROOM DEF

8:45 AM – 9:15 AM
Calcification and Proteoglycan Sulfation in OA
Jessica Bertrand

9:15 AM – 9:25 AM
O-18
NOD2 ATTENUATES OSTEOARTHRITIS VIA REPROGRAMMING INFLAMMATORY RESPONSE OF SYNOVIAL MACROPHAGES
C. Li, S. Lin, Z. Ouyang, S. Li, T. Liu, Y. Ding; Sun Yat-sen Mem. Hosp., Sun Yat-sen Univ., Guangzhou, China

9:25 AM – 9:35 AM
O-19
ANTIBODY MEDIATED IL12 PATHWAY MODULATION HAS A DISEASE MODIFIYING EFFECT ON POST-TRAUMATIC OSTEOARTHRITIS IN MICE.
P. Haubruck1, C. Blaker1, C. Hill2, Y. Liu1, E. Clarke1, C. Shu1, C. Little1; 1Kolling Inst. / Inst. of Bone and Joint Res., St Leonards, Australia, 2Kolling Inst., St Leonards, Australia

9:35 AM – 9:45 AM
O-20
CARTILAGE-SPECIFIC SIRT6 LOSS INCREASES SURGERY-INDUCED AND AGE-ASSOCIATED OA IN MICE
J. A. Collins1, C. Kim1, A. Coleman1, A. Little1, K. Kelley5, S. Chubinskaya3, M. Peffers4, T. Freeman5, R. Loeser2; 1Thomas Jefferson Univ., Philadelphia, PA, 2Univ. of North Carolina at Chapel Hill, Chapel Hill, NC, 3Rush Med. Coll., Chicago, IL, 4The Univ. of Liverpool, Liverpool, United Kingdom

9:45 AM – 9:55 AM
O-21
EXCESSIVE MECHANICAL STRESS ENHANCES MECHANICAL STRESS SENSITIVITY OF CARTILAGE THROUGH THE MECHANOSENSITIVE ION CHANNEL PIEZO2

9:55 AM – 10:05 AM
O-22
CARTILAGE SPECIFIC TRANSFORMING GROWTH FACTOR BETA RECEPTOR II DELETION DRIVES MEDIAL COLLATERAL LIGAMENT CALCIFICATION IN SPONTANEOUS MOUSE OA
J. St Amant1, J. Michaud1, L. De Guzman1, D. Hinds1, M. Coyle1, J. Trujillo Torres1, A. Pozzi3, A. L. Clark1; 1Univ. of Guelph, Guelph, ON, Canada, 3Vanderbilt Univ. Med. Ctr., Nashville, TN
10:15 AM – 10:30 AM
PLAZA COURT 1
15-Minute Theater Session
An overview of iPPS, a promising DMOAD

10:45 AM – 12:05 PM
PLAZA BALLROOM ABC
Plenary Session 4: Advanced Materials and Cell Therapeutic Approaches for OA

10:45 AM – 11:15 AM
The Future of Orthobiologic as an Adjuvant to Surgical Treatment
Johnny Huard

11:15 AM – 11:25 AM
O-23
ANTI-INFLAMMATORY POLYMERS AS POTENTIAL THERAPEUTICS IN KNEE OSTEOARTHRITIS
C. Aulin1, T. Melander-Bowden2, H. Erlandsson-Harris31, T. Engstrand1; 1Karolinska Inst., Stockholm, Sweden, 2Uppsala Univ., Uppsala, Sweden, 3Univ. of Bergen, Bergen, Norway

11:25 AM – 11:35 AM
O-24
3D PRINTED CARTILAGE MIMETIC COMPOSITE POSTPONES ONSET OF SKELETAL DEFORMITIES IN A RABBIT MODEL OF GROWTH PLATE INJURY
K. M. Fischenich1, F. Rodriguez-Fontan1, S. Thomas1, S. Schoonraad2, L. Stefan1, N. Hadley Miller3, V. L. Ferguson3, S. J. Bryant3, K. A. Payne3; 1Univ. of Colorado Anschutz Med. Campus, Aurora, CO, 2Univ. of Colorado at Boulder, Boulder, CO

11:35 AM – 11:45 AM
O-26
BIOMIMETIC AND BIOACTIVE HYDROGELS WITH TETHERED GROWTH FACTORS FOR CARTILAGE REGENERATION
L. Stefan1, S. Schoonraad, S. Bryant; CU Boulder, Boulder, CO

12:05 PM – 2:00 PM
Lunch on Own
<table>
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
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| 2:00 PM – 2:30 PM | Concurrent Session 3: Rehabilitation Medicine and Biomechanics                | The Relation of the Biomechanics of Gait to Estimated Knee Cartilage Load and KOA Progression  
Jaap Harlaar |
| 2:30 PM – 2:40 PM | ADJUNCTIVE THERAPIES IN ADDITION TO LAND-BASED EXERCISE THERAPY FOR OSTEOARTHRITIS OF THE HIP OR KNEE: A COCHRANE REVIEW | O-28 H. P. French¹, J. Abbott², R. Galvin³; ¹Royal Coll. of Surgeons in Ireland, Dublin, Ireland, ²Univ. of Otago, Dunedin, New Zealand, ³Univ. of Limerick, Limerick, Ireland |
| 2:40 PM – 2:50 PM | OPTIMISING MANAGEMENT OF KNEE OSTEOARTHRITIS IN PRIMARY CARE (PARTNER): A CLUSTER RANDOMISED CONTROLLED TRIAL | O-29 J. L. Bowden¹², D. J. Hunter¹², R. S. Hinman¹, T. Egerton¹, A. M. Briggs⁴, S. J. Bunker⁵, S. D. French⁶, M. Pirotta⁷, R. Shrestha⁸, D. J. Schofield⁹, K. Schuck¹², N. A. Zwar¹⁰, S. M. Silva¹¹, G. Z. Heller¹, K. L. Bennell¹¹; ¹The Univ. of Sydney, Sydney, Australia, ²Royal North Shore Hosp., Sydney, Australia, ³The Univ. of Melbourne, Melbourne, Vic, Australia, ⁴Curtin Univ., Perth, Australia, ⁵The Univ. of Melbourne, Melbourne, Australia, ⁶Macquarie Univ., Sydney, Australia, ⁷Univ. of New South Wales, Sydney, Australia, ⁸Bond Univ., Gold Coast, Australia |
| 2:50 PM – 3:00 PM | EFFECTIVENESS OF AN 11-WEEK EXERCISE INTERVENTION FOR PATIENTS WITH HIP OR KNEE OSTEOARTHRITIS ON HEALTH-RELATED QUALITY OF LIFE, SELF-EFFICACY AND JOINT REPLACEMENT | O-30 I. Krauss¹², I. Roesel¹, P. Martus¹, G. Mueller¹; ¹Univ. Hosp., Tuebingen, Germany, ²Univ. of Tuebingen, Tuebingen, Germany, ³Allgemeine Ortskrankenkasse AOK Baden-Wuerttemberg, Stuttgart, Germany |
| 3:00 PM – 3:10 PM | THE EFFECTS OF A DISRUPTIVE DIGITAL TECHNOLOGY INTERVENTION FOLLOWING TOTAL KNEE REPLACEMENT: RESULTS FROM THE PATHWAY RANDOMISED CONTROLLED TRIAL | O-31 V. Duong¹, S. Dennis¹, A. Harris¹, S. R. Robbins¹, V. Venkatesha¹, M. Ferreira¹, D. J. Hunter¹; ¹Univ. of Sydney, St Leonards, Australia, ²Monash Univ., Melbourne, Australia, ³Royal North Shore Hosp., St Leonards, Australia |
ONLY PATIENTS’ EXPECTATIONS ARE PROGNOSTIC FOR DISSATISFACTION WITH PERFORMING WORK-RELATED KNEE-STRAINING ACTIVITIES AFTER TOTAL KNEE ARTHROPLASTY. A MULTICENTER COHORT STUDY

Y. van Zaanen1, T. Siertsema1, T. M. Pahlplatz2, R. C. van Geenen2, A. J. Kievit3, M. J. Hoozemans3, L. Blankevoort4, M. Schafroth4, D. Haverkamp4, T. M. Vervest5, D. H. Das6, V. A. Scholtes7, P. F. Kuijer1; 1Amsterdam UMC, Univ. of Amsterdam, Amsterdam, Netherlands, 2Amphia Hosp., Breda, Netherlands, 3Vrije Univ.it Amsterdam, Amsterdam, Netherlands, 4Xpert Orthopaedics, Amsterdam, Netherlands, 5Tergooi Hosp., Hilversum, Netherlands, 6St. Anna Hosp., Geldrop, Netherlands, 7OLVG+, Amsterdam, Netherlands

The Role of Adipose-Cartilage Crosstalk in Osteoarthritis

Kelsey Collins

RAAV-MEDIATED FGF-2 AND TGF-β OVEREXPRESSION VIA ALGINATE HYDROGEL DELIVERY STIMULATES THE REPARATIVE ABILITIES OF HUMAN MENISCAL LESIONS IN SITU

J. K. Venkatesan, P. Orth, H. Madry, M. Cucchiarini; Saarland Univ., Homburg, Germany

GENERALIZED OSTEOARTHRITIS AND SUBSEQUENT CHANGES IN THIGH MUSCLE QUALITY: OBSERVATIONAL LONGITUDINAL ANALYSIS USING OSTEOARTHRITIS INITIATIVE

K. Moradi1, B. Mohajer1, F. W. Roemer2, A. Guermazi3, S. Demehri4; 1Johns Hopkins Univ. Sch. of Med., Baltimore, MD, 2Boston Univ. Sch. of Med., Boston, MA

MULTI-LIPID SYNERGY IN CARTILAGE LUBRICATION: REDUNDANCY OR EVOLUTION?

J. Klein, Y. Cao; Weizmann Inst. of Sci., Rehovot, Israel

THE BIOLOGICAL RESPONSE OF ANTERIOR CRUCIATE LIGAMENTOCYTES FOLLOWING TREATMENT WITH SYNOVIAL FLUID EXTRACELLULAR VESICLES

D. Cookson, E. Comerford, J. Anderson, M. Peffers, Y. Ashraf Kharaz; Univ. of Liverpool, Liverpool, United Kingdom
O-37
PGC-1α AS A MECHANISTIC DRIVER OF EXERCISE-INDUCED REGULATION OF INTERMUSCULAR ADIPOSE: IN SILICO APPROACH OF GSEA-GUIDED NETWORK PROPAGATION

3:30 PM – 5:00 PM
POSTER SESSION 1
PLAZA EXHIBITS
3:30 PM – 4:15 PM Odd Poster Numbers
4:15 PM – 5:00 PM Even Poster Numbers

5:00 PM – 6:30 PM
Concurrent Session 5: Imaging
PLAZA BALLROOM ABC
5:00 PM – 5:30 PM Imaging of Bone in OA Research: Present and Future
Thomas Link

5:30 PM – 5:40 PM
O-38
THE ASSOCIATION BETWEEN STATISTICAL SHAPE VARIATIONS OF THE HIP AND THE DEVELOPMENT OF RADIOGRAPHIC HIP OSTEOARTHRITIS WITHIN 8 YEARS OF FOLLOW-UP: DATA FROM 17,738 HIPS IN THE WORLD COACH CONSORTIUM.

5:40 PM – 5:50 PM
O-39
WHAT DO RADIOGRAPHIC MINIMUM AND FIXED-POSITION JOINT SPACE WIDTH MEASURE? A COMPARISON OF RADIOGRAPHIC AND MRI MEASURES FROM THE OSTEOARTHRITIS INITIATIVE
A. Brett*, M. Bowes*, P. G. Conaghan*; 1Stryker, Austin, TX, 2Imorphics, Manchester, United Kingdom, 3Univ. of Leeds, Leeds, United Kingdom
5:50 PM – 6:00 PM

O-40
Patterns of OA Development on MRI in High-Risk Women with Overweight and Obesity and the Role of Bone Marrow Lesions
J. Runhaar, E. Macri, E. Oei, S. Bierma-Zeinstra; Erasmus MC, Rotterdam, Netherlands

6:00 PM – 6:10 PM

O-41
Three-Dimensional Ultrasound for Quantitation of Synovial Tissue Volume in Knee Osteoarthritis
R. S. Dima, T. Birmingham, C. du Toit, J. Polus, A. Fenster, C. Appleton; 1Western Univ., London, ON, Canada, 2Schulich Sch. of Med. and Dentistry, London, ON, Canada

6:10 PM – 6:20 PM

O-42
Histological Validation of the Textural Features from Quantitative MRI for Determination of Cartilage Degeneration

5:00 PM – 6:30 PM
Concurrent Session 6: Beyond the Joint in OA: Nervous System, Gut, Heart, Brain, etc.

PLAZA BALLROOM DEF

5:00 PM – 5:30 PM

Comorbidities and Osteoarthritis
Christian Roux

5:30 PM – 5:40 PM

O-43
5:40 PM – 5:50 PM  O-44
HYPERTENSION EXACERBATES JOINT PATHOLOGY IN A SURGICAL MODEL OF OSTEOARTHRITIS IN A SEX-DEPENDENT MANNER
T. Yeater, J. L. Griffith, C. J. Cruz, F. M. Patterson, J. L. Aldrich, K. D. Allen; Univ. of Florida, GAINESVILLE, FL

5:50 PM – 6:00 PM  O-45
THE PECULIARITIES OF INTESTINAL MICROBIOME IN PATIENTS WITH OSTEOARTHRITIS
O. Gubska¹, A. Kuzminets¹, O. Koliada², V. Moseyko²; ¹Bogomolets Nati. Med. Univ., Kyiv, Ukraine, ²Molecular Genetic Lab. “Diagen”, Kyiv, Ukraine

6:00 PM – 6:10 PM  O-46
THE RELATIONSHIP OF OSTEOARTHRITIS AND HYPERTENSION ON PAIN AND DEPRESSION
Y. Yip, C. Wen; The Hong Kong Polytechnic Univ., Hong Kong, Hong Kong

6:10 PM – 6:20 PM  O-47
ASSOCIATION BETWEEN METABOLIC SYNDROME AND KNEE PAIN OVER 10-13 YEARS IN MIDDLE-AGED ADULTS
B. Eathakkattu Antony¹, A. Singh¹, B. Fraser¹, A. Venn¹, L. Blizzard¹, G. Jones¹, C. Ding¹²³; ¹Univ. of Tasmania, Hobart, Australia, ²Southern Med. Univ., Zhujiang, China, ³Monash Univ., Melbourne, Australia

6:45 PM – 8:30 PM  Early Career Investigators Workshop: Mentor Session
MAJESTIC BALLROOM

*Registration is required

SUNDAY, MARCH 19
7:30 AM – 8:30 AM  Breakfast Poster Tours*
PLAZA EXHIBITS

Poster Tour 5: Clinical Investigations and Imaging
Guide: Jamie Collins

Poster Tour 6: Prevention and Rehabilitation
Guide: Marius Henriksen

Poster Tour 7: Biology and Pathogenesis
Guide: Mandy Peffers

Poster Tour 8: Advanced Technologies and Therapeutics
Guide: Cristina Ruiz-Romero

*Additional ticketed fee required
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<tr>
<td>7:30 AM – 8:30 AM</td>
<td>Breakfast Workshop C: Reliable Models for Human Age-Related Osteoarthritis</td>
<td>Governor's Square 15</td>
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<td><strong>What Are JOCs and How Can They Be Used to Advance OA Research?</strong></td>
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<td><em>Sowmya Viswanathan</em></td>
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<td><strong>Developing Multi-Component Tissue Chips to Model Knee Joint Diseases</strong></td>
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<td><em>Hang Lin</em></td>
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<td><strong>Controlling Cartilage Phenotype Through Mechanical Compression on Chip: From Healthy to Osteoarthritic Models</strong></td>
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<td><em>Marco Rasponi</em></td>
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<td>7:30 AM – 8:30 AM</td>
<td>Breakfast Workshop F: Pain Assessment on Pre-Clinical Models</td>
<td>Governor's Square 14</td>
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<td><strong>Strengths and Shortcomings of Behavioral Pain Measures; The Overlap Between Movement Dysfunction and Pain</strong></td>
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<td><em>Kyle Allen</em></td>
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<td><strong>Non-Behavioral Indices of Pain: Measurable Changes in Peripheral Nerves, Dorsal Root Ganglion and Central Nervous System</strong></td>
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<td><em>Anne-Marie Malfait</em></td>
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<td>8:45 AM – 10:15 AM</td>
<td>Concurrent Session 7: Clinical Aspects and Outcomes in OA</td>
<td>Plaza Ballroom ABC</td>
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<td>8:45 AM – 9:15 AM</td>
<td><strong>Defining Early OA After ACL Injury</strong></td>
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<td><em>Matthew Harkey</em></td>
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<td>9:15 AM – 9:25 AM</td>
<td><strong>O-48</strong></td>
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<td><strong>Radiographic Changes Following Surgical and Non-Surgical Treatment for Degenerative Meniscal Tear</strong></td>
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9:25 AM – 9:35 AM O-49
SOCIO-ECONOMIC INEQUALITIES IN SELF-REPORTED OUTCOMES OF DUTCH PRIMARY HIP AND KNEE ARTHROPLASTY PATIENTS FOR OSTEOARTHRITIS
J. M. Bonsel1, M. Reijman1, J. A. Verhaar1, L. Van Steenbergen2, M. F. Janssen1, G. J. Bonsel1; 1Erasmus Med. Ctr., Rotterdam, Netherlands, 2Dutch Arthroplasty Registry, ’s-Hertogenbosch, Netherlands

9:35 AM – 9:45 AM O-50
ORTHOPEDIC SURGEONS’ PERSPECTIVES ON BODY MASS INDEX EXCLUSION THRESHOLDS FOR TOTAL JOINT ARTHROPLASTY: A QUALITATIVE STUDY
K. Godziuk1, E. A. Reeson2, A. H. Harris3, N. J. Giori2; 1Univ. of Alberta, Edmonton, AB, Canada, 2Creighton Univ., Omaha, NE, 3Stanford Univ., Stanford, CA

9:45 AM – 9:55 AM O-51
GOOD 10-YEAR OUTCOMES FOLLOWING THE TREATMENT ALGORITHM OF THE DELAWARE-OSLO ACL COHORT: KNEE OSTEOARTHRITIS, SYMPTOMS AND FUNCTION
A. P. Urhausen1, M. Pedersen1, H. Grindem1,2, N. Ito1, E. Arhos3,4, A. Smith5, K. Silbernagel5, M. Axe3,5, L. Engelbretsen1,6, L. Snyder-Mackler6, M. Risberg6,8; 1Norwegian Sch. of Sport Sci., Oslo, Norway, 2Karolinska Inst.t, Stockholm, Sweden, 3Univ. of Delaware, Newark, DE, 4Univ. of Ohio, Columbus, OH, 5First State Orthopaedics, Newark, DE, 6Oslo Univ. Hosp., Oslo, Norway

9:55 AM – 10:05 AM O-52
THE INFLUENCE OF BASELINE DEMOGRAPHICS ON VARIABILITY OF OSTEOARTHRITIS PAIN CHANGE FROM BASELINE IN INTERVENTIONAL TRIALS
A. R. Bihlet1, C. P. Miller1, J. R. Andersen1, Y. Li1, M. A. Karsda2, P. Alexandersen1; 1NBCD, Herlev, Denmark, 2Nordic BioSci., Herlev, Denmark, 3Sanos Clinic, Herlev, Denmark

8:45 AM – 10:15 AM Concurrent Session 8: Emerging Therapeutics

PLAZA BALLROOM DEF
8:45 AM – 9:15 AM Precision Medicine in Osteoarthritis
Michelle Yau

9:15 AM – 9:25 AM O-53
ABLATION OF MONOCYTE CHEMOATTRACTANT PROTEIN 1 FROM THE INTESTINAL EPITHELIUM IS PROTECTIVE IN THE OA OF OBESITY
D. Villani1, T. Ishii1, C. X. Mbazoa1, H. Hendes1, S. H. Landgrave1, K. Payne1, A. Gilf1, L. Favazzo1, S. Gilf1, M. Zuscik1; 1Univ. of Colorado Anschutz Med. Campus, Denver, CO, 2Univ. of Rochester Med. Ctr., Rochester, NY
O-54
EXCESSIVE TRANSFORMING GROWTH FACTOR BETA RECEPTOR II SIGNALING DRIVES EARLY AND WORSE SPONTANEOUS KNEE OA IN THE ITGA1-NULL MOUSE

O-55
NOVEL AAV2-FGF18 CHONDROGENIC GENE THERAPY
A. Goraltchouk, J. M. Hollander, F. Luppino, L. Zeng, A. Seregin; 1Remedium Bio, Inc, Needham, MA, 2Tufts Univ., Boston, MA

O-56
PRO-REGENERATIVE IMMUNE CELLS DIRECT ARTICULAR CARTILAGE REPAIR IN POST A TRAUMATIC OSTEOARTHRITIS MODEL
J. Bolander, A. Wilson, E. Parsons, C. Clouse, G. Moviglia, G. Poehling, T. Herpelinck, F. Marini, A. Atala; 1Wake Forest Sch. of Med., Winston Salem, NC, 2KU Leuven, Leuven, Belgium

O-57
LINK_TSG6 INHIBITS CARTILAGE DAMAGE IN OA BY SUPPRESSING COLLAGENASE AND AGGREGANASE ACTIVITY
S. P. Drummond, N. Kouvatsos, J. L. Scott, L. C. Blant, S. Anand, C. M. Milner, A. J. Day; 1Univ. of Manchester, Manchester, United Kingdom, 2Manchester Univ. Hosp. Fndn. Trust, Manchester, United Kingdom, 3Stepping Hill Hosp., Stockport, United Kingdom

15-Minute Theater Session

OA Behavior Phenotyping

Plenary Session 5: Advanced Technologies in Basic OA Research

Multi-Omics Data Integration: Creating OA-Specific Multi-Omics Open Access Data Repositories
Igor Jurisica

SINGLE-CELL ATLAS OF HUMAN INFRAPATELLAR FAT PAD AND SYNOVIUM UNRAVELS MECHANISMS OF OSTEOARTHRITIS-INDUCED JOINT PATHOLOGY
11:25 AM – 11:35 AM  
**O-59**
RNA SEQUENCING AND MACHINE LEARNING REVEAL A UNIQUE SYNOVIAL SIGNATURE IN ANKLE OSTEOARTHRITIS
*S. Buckley, M. David, M. C. Hamati, M. A. Hewitt, D. J. Adams, C. L. Ackert-Bicknell, M. J. Zuscik, K. J. Hunt; Univ. of Colorado, Aurora, CO*

11:35 AM – 11:45 AM  
**O-60**
MACHINE LEARNING APPROACHES TO SEGMENT AND CLUSTER CELLS OF THE CARTILAGE AND CAPSULE IN RAT ELBOW HISTOLOGY SECTIONS
*M. A. David1,2, Y. Yuan2, A. Bacon2, S. Shah2, A. Movva2, B. Lang2, W. Gan2, I. Berke2, U. Kamlov2, S. Lake2; 1Univ. of Colorado Anschutz Med. Campus, Aurora, CO, 2Washington Univ. in St. Louis, St. Louis, MO*

11:45 AM – 11:55 AM  
**O-61**
TOWARDS MODELLING THE JOINT ON A CHIP: A MECHANICALLY ACTIVE MICROFLUIDIC SYSTEM DESIGNED FOR ENGINEERED 3D MULTI-LAYER OSTEOCHONDRAL TISSUES
*A. Mainardi1, P. Occhetta2, I. Martin1, M. Rasponi2, A. Barbero2; 1Univ. of Basel, Basel, Switzerland, 2Politecnico di Milano, Milano, Italy*

11:55 AM – 12:05 PM  
**O-62**
DEVELOPMENT OF A NOVEL SYNOVIAL JOINT-ON-A-CHIP TO MODEL THE COMPLEX OSTEOARTHRITIC KNEE MICROENVIRONMENT
*L. Banh1,2, K. Cheung1, K. Perera1, E. Young1,1, S. Viswanathan1,2; 1Univ. of Toronto, Toronto, ON, Canada, 2Univ. Hlth.Network, Toronto, ON, Canada*

12:30 PM – 2:00 PM  
Early Career Investigator (ECI) Luncheon Workshop – Fantastic Funds and Where to Find Them: The Secrets of Grant Writing*
*Registration is required*
2:00 PM – 3:30 PM

Concurrent Session 9: Pain: Clinical Aspects

PLAZA BALLROOM ABC

2:00 PM – 2:30 PM

“*It Hurts to Move*”: Why Movement is Recommended to Manage Osteoarthritis Pain
Grace Lo

2:30 PM – 2:40 PM

"O-63"  
**CRHANRE REVIEW: ANITDEPRESSANTS FOR HIP AND KNEE OSTEOARTHRITIS**  
A. A. Leaney, J. R. Lyttle, J. Segar, D. Urquhart, F. Cicuttini, L. Chou, A. E. Wluka; Monash Univ., Melbourne, Australia

2:40 PM – 2:50 PM

"O-64"  
**HAND OSTEOARTHRITIS PHENOTYPES AND THEIR ASSOCIATIONS WITH PAIN AND CHANGE IN PAIN**  

2:50 PM – 3:00 PM

"O-65"  
**THE INFLUENCE OF A MEASURE OF CENTRAL SENSITIZATION ON THE EFFECTS OF SUPERVISED EXERCISE THERAPY AND EDUCATION IN PATIENTS WITH HIP AND KNEE OA**  
D. Schiphof, J. Runhaar, D. T. Grønne, S. T. Skou, E. M. Roos, S. M. Bierma-Zeinstra; Erasmus MC, Rotterdam, Netherlands, Univ. of Southern Denmark, Odense M, Denmark, Næstved-Slagelse-Ringsted Hosp., Region Zealand, Denmark

3:00 PM – 3:10 PM

"O-66"  
**PATTERNS OF PAIN MEDICATION USAGE IN OLDER IRISH ADULTS WITH OSTEOARTHRITIS FROM THE IRISH LONGITUDINAL STUDY ON AGEING (TILDA): A LATENT CLASS ANALYSIS**  
J. Cunningham, V. Lima Passos, K. Bennett, F. Moriarty, H. P. French; Royal Coll. of Surgeons in Ireland, Dublin, Ireland, Trinity Coll. Dublin, Dublin, Ireland

3:10 PM – 3:20 PM

"O-67"  
**SLEEP DISTURBANCE IN ELDERLIES IS ASSOCIATED WITH KNEE PAIN WITH KNEE OSTEOARTHRITIS -THE BUNKYO HEALTH STUDY-**  
2:00 PM – 3:30 PM  Concurrent Session 10 : Multi-Omics Strategies in OA Research

PLAZA BALLROOM DEF

2:00 PM – 2:30 PM  Insights into Disease Pathogenesis Using Cross-Disease Single-Cell Computational Omics
Fan Zhang

2:30 PM – 2:40 PM  O-68  MULTI-OMICS ANALYSES OF GUT MICROBIOME, HOST METABOLISM AND SYMPTOMATIC HAND OSTEOARTHRITIS CONDUCTED WITHIN THE XIANGYA OSTEOARTHRITIS STUDY
J. Wei1,2,3, Z. Yang1, J. Li4, Y. Zhang5, W. Zhang6, M. Doherty6, T. Yang7, H. Li8,9, Y. Yang2,3, C. Li4, C. Zeng2,3,6, G. Lo2,3,6; 1Hlth.Management Ctr., Xiangya Hosp., Changsha, China, 2Dept. of Orthopaedics, Xiangya Hosp., Central South Univ., Changsha, China, 3Hunan Key Lab. of Joint Degeneration and Injury, Xiangya Hosp., Central South Univ., Changsha, China, 4Div. of Rheumatology, Allergy, and Immunology, Dept. of Med., Massachusetts Gen. Hosp., Harvard Med. Sch., Boston, MA, 5Academic Rheumatology, Clinical Sci. Building, Univ. of Nottingham, City Hosp., Nottingham, United Kingdom, 6Natl. Clinical Res. Ctr. for Geriatric Disorders, Xiangya Hosp., Central South Univ., Changsha, China

2:40 PM – 2:50 PM  O-69  CAUSAL ASSOCIATIONS OF BMI WITH OSTEOARTHRITIS USING BIDIRECTIONAL MENDELIAN RANDOMISATION
A. Kamps1, J. Runhaar1, K. Trajanoska2, W. Thompson1, S. Swain1, W. Zhang5, E. I. de Schepper1, S. M. Bierma-Zeinstra1; 1Erasmus MC, Rotterdam, Netherlands, 2McGill Univ., Montreal QC, QC, Canada, 3Univ. of Nottingham, Nottingham, United Kingdom, 4Univ. of Oxford, Oxford, United Kingdom

2:50 PM – 3:00 PM  O-70  LIFETIME RISK AND GENETIC PREDISPOSITION TO POST-TRAUMATIC OSTEOARTHRITIS OF THE KNEE: TIME-TO-EVENT AND RELATED ANALYSES IN THE UK BIOBANK
B. Hollis1, L. Southam1, C. Chatzigeorgiou1, K. Hatzikotoulas1, W. S. Kluzek3, A. Williams4, E. Zeggini5, L. Jostins-Dean1, F. E. Watt6,1; 1Univ. of Oxford, Oxford, United Kingdom, 2Helmholtz, Munich, Germany, 3Univ. of Nottingham, London, United Kingdom, 4Fortius Clinic, London, United Kingdom, 5Helmholtz, Munich, United Kingdom, 6Imperial Coll. London, London, United Kingdom

3:00 PM – 3:10 PM  O-71  NOVEL MECHANISMS OF MICRORNA-MEDIATED ANABOLIC EFFECTS IN OSTEOARTHRITIS
3:10 PM – 3:20 PM

**O-72**

**TRYPTOPHAN METABOLITES ARE ASSOCIATED WITH EROSION AND PAIN IN HAND OSTEOARTHRITIS: RESULTS FROM THE DIGICOD COHORT**

*M. Binvignat²,³, P. Emond³, F. Mifsud³, B. Miao², A. Courties¹, E. Maheu¹, M. Kloppenburg³, P. Richette⁴, A. J. Butte², E. Mariotti-Ferrandiz¹, F. Berenbaun¹, H. Sokol¹, J. Sellam¹; ¹Sorbonne Univ., Paris, France, ²UCSF, San Francisco, CA, ³Univ. de Tours, Tours, France, ⁴Univ. Paris Cite, Paris, France, ⁵Leiden Univ., Leiden, Netherlands*

3:30 PM – 5:00 PM

**POSTER SESSION 2**

**PLAZA EXHIBITS**

3:30 PM – 4:15 PM
Odd Poster Numbers

4:15 PM – 5:00 PM
Even Poster Numbers

3:45 PM – 4:15 PM

**30-MINUTE THEATER SESSION**

**PLAZA COURT 1**

**INTRA-ARTICULAR MM-II, A NOVEL SUSPENSION OF ARGE EMPTY MULTILAMELLAR LIPOSOMES, IN PAINFUL KNEE OSTEOARTHRITIS: A 26-WEEK PHASE 2B RANDOMIZED TRIAL**

5:00 PM – 6:00 PM

**Plenary Session 6 – DEBATE**

**PLAZA BALLROOM ABC**

Realizing a Breakthrough in OA Prevention: Joint Trauma vs. Obesity
Ewa Roos vs Sita Bierma-Zeinstra

**MONDAY, MARCH 20**

7:30 AM – 8:30 AM

**Breakfast Workshop E: Where Are We with Weight Bearing CT in OA Research?**

**GOVERNOR’S SQUARE 15**

Where Are We with Weight Bearing CT in OA Research and Do We Need It at All

*Neil Segal
Tom Turmezei*

*Additional ticketed fee required*

7:30 AM – 8:30 AM

**Breakfast Workshop D: Imaging in DMOAD and aNGF Clinical Trials: Lessons Learned and Mistakes to Avoid**

**GOVERNOR’S SQUARE 14**

Imaging in DMOAD and aNGF Clinical Trials: Lessons Learned and Mistakes to Avoid

*Ali Guermazi*

*Additional ticketed fee required*
Concurrent Session 11: Beyond Hip and Knee OA: Spine, Hand, Ankle, etc.

PLAZA BALLROOM ABC

8:45 AM – 9:15 AM
Innovation, Advances and Challenges in Spine OA
François Rannou

9:15 AM – 9:25 AM
O-73
DISEASE-RELATED CHANGES IN THE CELLULAR LANDSCAPE OF HUMAN INTERVERTEBRAL DISC
H. Swahn¹, J. Mertens¹, O. Alvarez-García¹, T. S. Mondala³, P. Natarajan⁷, S. R. Head⁶, M. K. Lotz⁵; ¹Molecular Med., Scripps Res. Inst., La Jolla, CA, ²Ctr. for Computational Biology & Bioinformatics and Genomics Core, Scripps Res. Inst., La Jolla, CA

9:25 AM – 9:35 AM
O-74
EFFECT OF 6-WEEK TREATMENT WITH TOPICAL CORTICOSTEROID IN PATIENTS WITH SYMPTOMATIC HAND OSTEOARTHRITIS: A RANDOMIZED DOUBLE-BLIND, PLACEBO-CONTROLLED TRIAL
Y. Wang¹, M. Estee¹, D. Garr¹, Y. Lim¹, S. Heritier¹, A. Wuika¹, S. Hussain¹, N. Trevaskis¹, F. Cicuttini¹; ¹Monash Univ., Melbourne, Australia, ²Alfred Hosp., Melbourne, Australia

9:35 AM – 9:45 AM
O-75
ASSOCIATIONS OF RADIOGRAPHIC PROGRESSION WITH BIOCHEMICAL MARKERS AND CLINICAL ASSESSMENTS IN PATIENTS WITH HAND OSTEOARTHRITIS: A 5-YEAR LONGITUDINAL COHORT STUDY
J. Baloun¹,², X. Švec¹,², O. Růžičková¹,², O. Šléglová¹,², J. Gatterová¹,², J. Vencovský², K. Pavelka¹,², L. Šenolt¹,²; ¹Inst. of Rheumatology, Prague, Czech Republic, ²Dept. of Rheumatology, 1st Faculty of Med., Charles Univ., Prague, Czech Republic

9:45 AM – 9:55 AM
O-76
ASSOCIATION BETWEEN CLINICAL FINDINGS AND THE PRESENCE OF LUMBAR SPINE OSTEOARTHRITIS IMAGING FEATURES: A SYSTEMATIC REVIEW
M. Chamoro¹, K. de Luca², O. F. Ozbulut³, E. H. Oei¹, C. L. Vlieggeert-Lankamp³, B. W. Koes¹, S. M. Bierma-Zeinstra⁴, A. Chiarotto⁵; ¹Erasmus MC, Univ. Med. Ctr. Rotterdam, Rotterdam, Netherlands, ²CQ Univ., Brisbane, Australia, ³Leiden Univ. Med. Ctr., Leiden, Netherlands
9:55 AM – 10:05 AM  
**O-77**  
**COMPARATIVE EFFECTIVENESS OF PHARMACOLOGICAL INTERVENTIONS FOR HAND OSTEOARTHRITIS: A SYSTEMATIC REVIEW AND NETWORK META-ANALYSIS OF RANDOMIZED TRIALS**  
*A. Døssing*, S. M. Nielsen, F. P. B. Kroon, I. Maria Balsby, S. Tarp, M. Kloppenburg, L. K Stamp, R. D Altman, M. Henriksen, M. Boesen, H. Bliddal, S. Berg, R. Christensen. The Parker Inst., Bispebjerg and Frederiksberg Hosp., Univ. of Copenhagen, Copenhagen, Denmark; Section for Biostatistics and Evidence-Based Res., The Parker Inst., Bispebjerg and Frederiksberg Hosp., Univ. of Copenhagen, Copenhagen, Denmark; Res. Unit of Rheumatology, Dept. of Clinical Res., Univ. of Southern Denmark, Odense Univ. Hosp., Odense, Denmark; Dept. of Rheumatology, Leiden Univ. Med. Ctr., Leiden, Netherlands; Dept. of Rheumatology, Zuyderland Med. Ctr., Heerlen, Netherlands; Dept. of Clinical Epidemiology, Leiden Univ. Med. Ctr., Leiden, Netherlands; Dept. of Med., Univ. of Otago, Christchurch, Christchurch, New Zealand; Ctr. for Treatment of Rheumatic and Musculoskeletal Diseases (REMEDY), Diakonhjemmet Hosp., Oslo, Norway; Professor of Med., Div. of Rheumatology and Immunology, The David Geffen Sch. of Med. at the Univ. of California at Los Angeles (UCLA), Los Angeles, CA; Dept. of Radiology, Bispebjerg and Frederiksberg Hosp., Univ. of Copenhagen, Copenhagen, Denmark; Patient research partner, Copenhagen, Denmark

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8:45 AM – 10:15 AM  
**Concurrent Session 12: Pain: Basic Science**

**PLAZA BALLROOM DEF**

8:45 AM – 9:15 AM  
**Immune Regulation of Osteoarthritis-Related Pain**  
*Niels Eijkelkamp*

9:15 AM – 9:25 AM  
**SEX SPECIFIC REGULATION OF PAIN SENSITISERS IN SURGICALLY INDUCED MURINE OSTEOARTHRITIS REVEALS A MORE INFLAMMATORY PHENOTYPE IN FEMALE DISEASE**  

9:25 AM – 9:35 AM  
**THE ROLE OF SILENT NOCICEPTORS IN INFLAMMATORY KNEE PAIN**  
9:35 AM – 9:45 AM  O-80
LONGITUDINAL TRAJECTORIES OF PAIN SENSITIZATION IN PEOPLE WITH OR AT RISK OF KNEE OSTEOARTHRITIS: THE MULTICENTER OSTEOARTHRITIS STUDY
K. Aoyagi1,2, N. Wang3, L. Frey-Law4, C. E. Lewis5, M. Nevitt6, T. Neogi2; 1Univ. of Texas at El Paso, El Paso, TX, 2Boston Univ. Sch. of Med., Boston, MA, 3Boston Univ. Sch. of Publ. Hlth., Boston, MA, 4Univ. of Iowa, Iowa City, IA, 5Univ. of Alabama at Birmingham, Birmingham, AL, 6Univ. of California at San Francisco, San Francisco, CA

9:45 AM – 9:55 AM  O-81
MYOSTATIN AND CXCL11 PROMOTE DORSAL ROOT GANGLIA MACROPHAGES TO MAINTAIN OSTEOARTHRITIS PAIN
C. Martin Gil1, R. Raoof2, S. Versteeg1, F. P. Lafeber1,1, S. C. Mastbergen1,1, N. Eijkelkamp1; 1Univ. Med. Ctr. Utrecht, Utrecht, Netherlands, 2Amsterdam Univ. Med. Ctr., Amsterdam, Netherlands

9:55 AM – 10:05 AM  O-82
ENHANCED ACTIVATION OF THE PARABRACHIAL NUCLEUS FOLLOWING AN ACUTE NOXIOUS STIMULUS IS OBSERVED IN MALE AND FEMALE MICE WITH OSTEOARTHRITIS
T. A. Linstrom1, S. Gonzales-Malcolm2, C. Blaker1, K. Aubrey1, C. Little1, S. Zaki3,1; 1Kolling Inst. of Med. Res., Faculty of Med. and Hlth., Univ. of Sydney, St Leonards, Australia, 2Faculty of Sci., Univ. of Sydney, Camperdown, Australia, 3Sydney Sch. of Vet. Sci., Faculty of Sci., Univ. of Sydney, Camperdown, Australia

10:15 AM – 10:30 AM  BREAK

PLAZA BALLROOM FOYER

10:30 AM – 12:15 PM  Plenary Session 7 – YEAR IN REVIEW

PLAZA BALLROOM ABC

10:30 AM – 10:45 AM  OA Clinical: Epidemiology and Therapy
Anthony Perruccio

10:45 AM – 11:00 AM  Imaging
Mohamed Jarraya

11:00 AM – 11:15 AM  Rehabilitation & Outcomes
Erin Macri

11:15 AM – 11:30 AM  Mechanics in OA
Laura Diamond

11:30 AM – 11:45 AM  Biomarkers
Guangju Zhai

11:45 AM – 12:00 PM  Genetics, Genomics, and Epigenetics
Muhammad Farooq Rai

12:00 PM – 12:15 PM  OA Biology
Cosimo De Bari
SAVE THE DATE
OARSI 2024
WORLD CONGRESS ON OSTEOARTHRITIS
VIENNA, AUSTRIA
APRIL 18–21, 2024
REED EXHIBITIONS MESSE WIEN