



**2024  
Scientific  
Program**

**BREAKING BARRIERS**  
THROUGH MULTI-DISCIPLINARY RESEARCH

# OARSI 2024

WORLD CONGRESS ON OSTEOARTHRITIS

**VIENNA, AUSTRIA**, **APRIL 18-21, 2024**  
MESSE WIEN EXHIBITION & CONGRESS CENTER



## Thursday, April 18

8:00 AM - 10:30 AM

### **Pre-Congress Workshop: Delivering Best Evidenced Osteoarthritis Care Workshop for Clinicians**



*Chairperson: David Hunter*

#### **Understand the Epidemiology and Prognosis of Osteoarthritis**

*Lisa Spertl*

#### **Talking to People About Their OA**

*Sam Bunzli*

#### **Supporting Self-Management for People with OA**

*Shannon Mihalko*

#### **Physical Activity and Exercise**

*Kim Bennell*

#### **Weight Management**

*Marius Henriksen*

#### **Pharmacotherapy**

*Shirley Yu*

#### **How to Have a Behavior Change Conversation**

*Jillian Eyles, Martin van der Esch, & Sarah Kobayashi*

8:00 AM – 10:30 AM

### **Pre-Congress Workshop: Cartilage Repair: Lesson from Regenerative Species**

*Chairpersons: Erika Kague & Farida Djouad*

#### **Use of Zebrafish Models for Deciphering Mechanisms of Musculoskeletal Disease**

*Erika Kague*

#### **Using the Genetic Tractability of Zebrafish to Study Bone Diseases**

*Joanna Moss*

8:00 AM- 10:30 AM

### **Pre-Congress Workshop: Amplifying the Patient's Voice: How We Can Make Research More Impactful Organized by the Early Career Investigators**

*Chairpersons: Jesse Charlton & Armaghan Mahmoudian*

#### **Patient Partners on How Osteoarthritis Has Affected their Lives and What They Value Most in their Rehabilitation/Management Program**

*Corné Baatenburg de Jong & Belinda Lawford*

#### **Frameworks for Rigorously and Effectively Including Patient Partners and Experts in the Research Pathway**

*James Bilzon & Leigh Callahan*

#### **Identify the Challenges and Benefits of Engaging Patients in Research Through Scientific Research Examples**

*Lauren King & Jackie Whittaker*

10:30 AM – 11:00 AM

BREAK

11:00 AM – 12:30 PM	<b>OAC &amp; OACO Journal Session</b> <i>Organized by the OAC &amp; OACO Journal</i> <b>Welcome:</b> <ul style="list-style-type: none"><li>• Editors in Chief, OAC and OAC Open</li></ul> <b>Scientific Session:</b> <ul style="list-style-type: none"><li>• Paper of the Year Award presentations</li><li>• Biostatistical Methods Update</li></ul> <b>Award Ceremony:</b> <ul style="list-style-type: none"><li>• Recognition of<ul style="list-style-type: none"><li>○ Reviewers of the Year</li><li>○ Mentors and Mentees</li><li>○ Guest Editors</li></ul></li></ul>
12:30 PM – 2:00 PM	Lunch on Own
2:00 PM - 3:30 PM	<b>Plenary Session 1: When OA Meets Digital Health &amp; Nutrition</b> <i>Moderators: Mona Dvir-Ginzberg, Jérémie Sellam, &amp; Tanja Stamm</i>
2:00 PM – 2:30 PM	<b>The Present and Future of DiGAs in Healthcare and Arthritis</b> <i>Johannes Knitza</i>
2:30 PM – 3:00 PM	<b>Innovative Drugs for Obesity Treatment: A Game Changer?</b> <i>Sébastien Czernichow</i>
3:00 PM – 3:10 PM	1 VARIATIONS IN TRAJECTORY OF ADHERENCE TO A DIGITAL SELF-MANAGEMENT TREATMENT FOR KNEE AND HIP OSTEOARTHRITIS: PREDICTORS AND CONSEQUENCES <i>Ali Kiadaliri</i>
3:10 PM – 3:20 PM	2 TRANSCUTANEOUS AURICULAR VAGUS NERVE STIMULATION IN EROSIIVE HAND OSTEOARTHRITIS: RESULTS OF THE ESTIVAL MULTICENTER RANDOMIZED SHAM-CONTROLLED TRIAL <i>Alice Courties</i>
3:20 PM – 3:30 PM	3 BAD KNEES & BROKEN HEARTS: miRs RELEASED FROM OSTEOARTHRITIC (OA) JOINTS INCREASE CARDIOVASCULAR DISEASE (CVD) RISK <i>Christopher B. Little</i>
3:30 PM – 3:45 PM	BREAK
3:45 PM - 5:15 PM	<b>Plenary Session 2: Highest Rated Abstracts by Early Career Investigators</b> <i>Moderators: Martin Englund &amp; Gun-il Im</i>
3:45 PM – 3:55 PM	4 A DIGITAL MINDSET INTERVENTION TO IMPROVE PAIN AND EXERCISE PARTICIPATION IN INDIVIDUALS WITH KNEE OSTEOARTHRITIS: A RANDOMIZED CLINICAL TRIAL <i>Melissa Boswell</i>
3:55 PM – 4:05 PM	5 PATIENT-LEVEL ACTIVE SURVEILLANCE OF KNEE OSTEOARTHRITIS WITH REINFORCEMENT LEARNING <i>Khanh Nguyen</i>
4:05 PM – 4:15 PM	6 REMODELLING OF VASCULATURE AND NERVES IN MURINE JOINTS FOLLOWING SURGICAL JOINT DESTABILISATION <i>Vicky Batchelor</i>
4:15 PM – 4:25 PM	7 ASSOCIATION OF ACCELEROMETER-MEASURED PHYSICAL ACTIVITY PATTERNS WITH CARDIOVASCULAR DISEASES AND MORTALITY IN PEOPLE WITH

	OSTEOARTHRITIS: A PROSPECTIVE COHORT STUDY Tianxiang Fan
4:25 PM – 4:35 PM	8 TEMPORAL TRENDS IN CROSS-COUNTRY INEQUALITIES OF THE BURDEN OF OSTEOARTHRITIS FROM 1990 TO 2019: DATA FROM THE GLOBAL BURDEN OF DISEASE STUDY 2019 Haowei Chen
4:35 PM – 4:45 PM	9 THE MODULATING EFFECT OF BIOMECHANICAL FORCES ON THE PROINFLAMMATORY TISSUE ENVIRONMENT IN OSTEOARTHRITIS USING ADVANCED THREE-DIMENSIONAL TISSUE-MIMETIC LAB-ON-A-CHIP MODELS Mario Rothbauer
4:45 PM – 4:55 PM	10 ASSOCIATION OF WEARABLE-SENSOR DERIVED GAIT MEASURES WITH CARTILAGE WORSENING OVER 2 YEARS IN THE MULTICENTER OSTEOARTHRITIS STUDY Kathryn Louise Bacon
4:55 PM – 5:05 PM	11 SINGLE-PAYER HEALTH INSURANCE MAY NOT MITIGATE INCOME-BASED DIFFERENCES IN TOTAL HIP ARTHROPLASTY UTILIZATION: A TRANSNATIONAL ANALYSIS Bella Mehta
5:05 PM – 5:15 PM	12 EPIGENOMIC LANDSCAPE ACROSS HUMAN ARTICULAR CARTILAGE DEVELOPMENT Sarah J. Rice
5:15 PM – 5:30 PM	<b>BREAK</b>
5:30 PM – 6:30 PM	<b>Opening Ceremony &amp; Awards Recognition</b>  <b>Recognition of:</b> Basic Science Award Winner Clinical Science Award Winner Rising Star Awards
6:30 PM – 7:30 PM	<b>Keynote Address: From Technology to Psychology</b>  <i>Moderators: Mohit Kapoor &amp; Thomas Hügle</i>
6:30 PM – 7:00 PM	<b>iPSC-Derived Injectable Spheroids and Cartilage Regeneration</b> <i>Ji Hyeon Ju</i>
7:00 PM – 7:30 PM	<b>(Bio) Psychological Network Models of Chronic Joint Pain</b> <i>Rinie Geenen</i>
7:30 PM – 9:00 PM	<b>Opening Reception with Exhibitors</b>

**Friday, April 19**

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

**Poster Tour 1:** Latest Insights from Clinic and Imaging  
*Guided by Margreet Kloppenburg*

**Poster Tour 2:** New Developments in OA Basic Science  
*Guided by Tom Appleton*

**Poster Tour 3:** Novel Tools for Advancing Innovation in OA  
*Guided by Barbara Chan*

**Poster Tour 4:** Advances in OA Therapy: Pharmacological and Non-Pharmacological  
*Guided by Francis Berenbaum*

*\*Additional ticketed fee required*

**7:30 AM – 8:30 AM Breakfast Workshop A: Managing Bone and Joint Diseases in Older Aged: Epidemiology and Lessons for the Clinic (OARSI-ESCEO Joint Symposium)**

*Chairpersons: Gun-il Im & Jean Yves-Reginster*

**Immunometabolic Alterations Linking Diabetes Osteoarthritis and Osteoporosis**  
*Ali Mobasher*

**Impact of Osteoporosis and Osteoarthritis as Comorbidities in the Aging Population**  
*Elaine Dennison*

*\*Additional ticketed fee required*

**7:30 AM – 8:30 AM Breakfast Workshop B: Computer Vision for Motion Tracking in Osteoarthritis**

*Chairperson: Thomas Hügle*

**Single Camera Motion Capture in Osteoarthritis**  
*Melissa Boswell*

*\*Additional ticketed fee required*

**8:45 AM – 10:15 AM Concurrent Session 1: Risk Factors, Prevention, and Early Disease**

*Moderators: Matthew Harkey & Matlock Jeffries*

**8:45 AM – 9:25 AM Defining Early-Stage Symptomatic Knee Osteoarthritis – an OARSI Initiative (EsSKOA ECIs)**  
*Lauren King*  
*Jean Liew*  
*Armaghan Mahmoudian*

**9:25 AM - 9:35 AM 13 EARLY-STAGE VS ESTABLISHED KNEE OSTEOARTHRITIS: A COMPARATIVE STUDY ON THE PREVALENCE, CHARACTERISTICS, AND OUTCOMES OF SUPERVISED EXERCISE AND EDUCATION AMONG 10,365 PATIENTS**  
*Stan Drummen*

**9:35 AM - 9:45 AM 14 YOUNG ADULTS WITH ACL INJURIES AT INCREASED OSTEOARTHRITIS RISK AND ADOLESCENTS WITH NONTRAUMATIC KNEE PAIN: COMPARISON OF LONG-TERM PATIENT-REPORTED OUTCOMES**  
*Ewa M. Roos*

9:45 AM - 9:55 AM	15 ASSESSING THE EFFICACY OF THE STOP OSTEOARTHRITIS (SOAR) PROGRAM: A RANDOMIZED DELAYED-CONTROLLED TRIAL FOR PERSONS AT INCREASED RISK OF EARLY ONSET POST-TRAUMATIC KNEE OSTEOARTHRITIS Justin Losciale
9:55 AM – 10:05 AM	16 IS ANTERIOR CRUCIATE LIGAMENT CONTINUITY ON MRI 5 YEARS AFTER ACUTE ACL RUPTURE ASSOCIATED WITH 11-YEAR OUTCOMES? A SECONDARY ANALYSIS FROM THE KANON TRIAL Stephanie Filbay
10:05 AM - 10:15 AM	17 CHONDROCALCINOSIS IS A RISK FACTOR FOR KNEE OSTEOARTHRITIS AND PAIN INCIDENCE. Yahong Wu

**8:45 AM – 10:15 AM Concurrent Session 2: Imaging**



*Moderators: Frank Roemer and Thomas Link*

8:45 AM – 9:25 AM	<b>Interventional Radiology and Treatment of Osteoarthritis</b> Yan Epelboym
9:25 AM - 9:35 AM	18 THE ASSOCIATION OF SEVERITY AND PROGRESSION OF STRUCTURAL HAND OA WITH PROGRESSION OF STRUCTURAL KNEE OA: THE IMI-APPROACH COHORT Sietse Terpstra
9:35 AM - 9:45 AM	19 GENICULAR ARTERY EMBOLIZATION VERSUS SHAM EMBOLIZATION FOR SYMPTOMATIC KNEE OSTEOARTHRITIS: 1-YEAR RESULTS FROM A RANDOMIZED CONTROLLED TRIAL. Tijmen Alexander van Zadelhoff
9:45 AM - 9:55 AM	20 IS DETECTION OF DMOAD TREATMENT MORE EFFECTIVE WHEN PERFORMING QUANTITATIVE CARTILAGE ANALYSIS WITH UNBLINDED IMAGE ACQUISITION ORDER? Felix Eckstein
9:55 AM – 10:05 AM	21 PREDICTION OF INCIDENT CONSTANT AND INTERMITTENT KNEE PAIN BY CARTILAGE THICKNESS AND T2 VALUES: DATA FROM THE OAI Maximilian T. Löffler
10:05 AM - 10:15 AM	22 PATELLA SHAPE ANALYSIS PREDICTS KNEE ARTHROPLASTY RISK ENHANCED BY DIFFUSION MODEL Sing Hin Lau

**10:15 AM – 10:45 AM BREAK**

**10:45 AM – 12:15 PM Plenary Session 4: Innovation in OA Research**



*Moderators: Catherine Le Visage & Jeroen Geurts*

10:45 AM – 11:25 AM	<b>Update on Joint-on-a-chip in OA</b> Séverine Le Gac
11:25 AM – 11:35 AM	23 MAPPING THE JOINT-NERVE INTERACTOME OF THE KNEE: AN INTEGRATIVE APPROACH FOR IDENTIFYING NEW STRATEGIES FOR THE CONTROL OF JOINT PAIN Anne-Marie Malfait



11:35 AM – 11:45 AM	24 INSIGHTS INTO THE GENOMIC AETIOLOGY OF OSTEOARTHRITIS: GENOME-WIDE ASSOCIATION STUDY META-ANALYSIS ACROSS 1,962,069 INDIVIDUALS (On behalf of the Genetics of Osteoarthritis Consortium) Konstantinos Hatzikotoulas
11:45 AM – 11:55 AM	25 FIBROBLAST GROWTH FACTOR 18 GENE THERAPY TREATMENT IS PROTECTIVE TO CARTILAGE AND SUBCHONDRAL BONE IN RAT MODEL OF OSTEOARTHRITIS Alexei Goraltchouk
11:55 AM – 12:05 PM	26 MITOCHONDRIAL TRANSPLANTATION AS A NEW PERSPECTIVE FOR OSTEOARTHRITIS TREATMENT Mercedes Fernandez-Moreno
12:05 PM – 12:15 PM	27 NETWORK MEDICINE-BASED APPROACH TO INTERROGATE CHONDROPROTECTIVE EFFECTS OF REHABILITATIVE EXERCISE VIA CIRCULATING EXTRACELLULAR VESICLES Hirotaka Iijima

12:30 PM – 2:00 PM **Satellite Lunch Symposium**



2:00 PM - 3:30 PM **Concurrent Session 3: Rehabilitation Medicine and Biomechanics**

*Moderators: Jesse Charlton & Michelle Hall*

2:00 PM – 2:40 PM	<b>Healing ACL Ruptures without Surgery and Implications for Osteoarthritis</b> <i>Stephanie Filbay</i>
2:40 PM – 2:50 PM	28 PHYSIOTHERAPIST-LED TREATMENT FOR FEMOROACETABULAR IMPINGEMENT SYNDROME (THE PHYSIOFIRST STUDY): A PARTICIPANT AND ASSESSOR-BLINDED RANDOMISED CONTROLLED TRIAL. Joanne L. Kemp
2:50 PM – 3:00 PM	29 VIDEOCONFERENCING WITH A PHYSIOTHERAPIST VERSUS IN-PERSON CARE FOR KNEE OSTEOARTHRITIS: THE PEAK NON-INFERIORITY RANDOMISED CONTROLLED TRIAL. Rana S. Hinman
3:00 PM – 3:10 PM	30 IMPLEMENTING OA TREATMENT RECOMMENDATIONS IN PRIMARY CARE POSTPONED JOINT REPLACEMENT IN HIP AND KNEE JOINTS - 8 YEAR FOLLOW-UP OF A CLUSTER RANDOMIZED CONTROLLED TRIAL. Nina Østerås
3:10 PM – 3:20 PM	31 RELATION OF PAIN SENSITIZATION WITH KNEE LOADING DURING WALKING IN PEOPLE WITH KNEE OSTEOARTHRITIS Ehyun Kim
3:20 PM – 3:30 PM	32 REDUCED COMPRESSIVE & SHEAR FORCES FROM GAIT RETRAINING RELATE TO SLOWED CARTILAGE DEGENERATION Kirsten Seagers

2:00 PM - 3:30 PM **Concurrent Session 4: Joint Related Tissue**

*Moderators: Jessica Bertrand & Johanna Bolander*

2:00 PM – 2:40 PM	<b>Joint Cartilage in Long-Duration Spaceflight</b> <i>Henning Madry</i>
2:40 PM – 2:50 PM	33 THE PHENOTYPE AND FATE OF SYNOVIAL MACROPHAGES IS MODULATED BY INJURY AND OBESITY IN OSTEOARTHRITIS Natalia S. Harasymowicz

2:50 PM – 3:00 PM	34 MACROPHAGE DIVERSITY IN THE STIFFENING AND FIBROTIC SYNOVIAL NICHE FOLLOWING JOINT INJURY Sung Yeon Kim
3:00 PM – 3:10 PM	35 MECHANICALLY ACTIVE JOINT-ON-CHIP MODELS AS ADVANCED PRECLINICAL TOOLS TO TEST ANTI-OA THERAPIES AND DISSECT THE CROSS-TALK AMONG DIFFERENT COMPARTMENTS IN OA Paola Occhetta
3:10 PM – 3:20 PM	36 HEPARAN SULFATE-DEFICIENCY RESULTS IN ALTERED MATRIX PROPERTIES AND IMPAIRED CELL MATRIX INTERACTIONS Ann-Christine Severmann
3:20 PM – 3:30 PM	37 SPATIAL TRANSCRIPTOMICS OF JOINT SPACE-INTERFACING TISSUES USING A PRE-CLINICAL MOUSE MODEL OF OSTEOARTHRITIS Jason S. Rockel

**2:00 PM – 3:30 PM Clinical Trials Symposium**



*Moderators: Morten Karsdal & Ali Mobasheri*



**Current Evidence for Anti-inflammatory Treatments of OA as DMOADs**  
*Richard Loeser*



GENASCENCE

**"Imaging Modalities for Identification of the Molecular Inflammatory Endotype of Progressive OA"**  
*Olga Kubassova*



**Soluble Biomarkers of Inflammation and Tissue Destruction: The Inflammatory Endotype**



*Anne C. Bay-Jensen*

**3:30 PM – 5:00 PM POSTER SESSION 1**



3:30 PM – 4:15 PM	Odd Numbers
4:15 PM – 5:00 PM	Even Numbers

**5:00 PM – 6:30 PM Concurrent Session 5: Molecular Circuits Regulating Joint Destruction**

*Moderators: Seungwoo Han & Chunyi Wen*

5:00 PM – 5:40 PM	<b>Key Signaling Circuits Driving OA Progression</b> <i>Di Chen</i>
5:40 PM – 5:50 PM	38 PEROXISOME PROLIFERATOR-ACTIVATED RECEPTOR A IS A DISEASE-MODIFYING TARGET FOR OSTEOARTHRITIS Beatriz Carames
5:50 PM – 6:00 PM	39 A NOVEL GENETIC MOUSE MODEL OF AGE-ASSOCIATED OA Mick Jury nec
6:00 PM – 6:10 PM	40 SUPERFICIAL ZONE CELL DEATH IN ADULT MOUSE LIMB JOINTS LEADS TO EARLY ONSET OSTEOARTHRITIC PROGRESSION Danielle Rux
6:10 PM – 6:20 PM	41 THE CALCITONIN RECEPTOR PROMOTES BONE TURNOVER AND INFLAMMATION IN A MURINE MODEL OF AGE-DEPENDENT OSTEOARTHRITIS Jérôme Weber



6:20 PM – 6:30 PM 42 THE ROLE OF MAST CELLS IN OSTEOARTHRITIS  
Jingshu Liu

**5:00 PM - 6:30 PM Concurrent Session 6: Pain: From Basic to Clinical**



Moderators: Rik Lories & Joanna Sherwood

5:00 PM – 5:40 PM **Nerve and OA Pain**  
Hans Georg Schaible

5:40 PM – 5:50 PM 43 TARGETED ABLATION OF KNEE-INNERVATING NOCICEPTORS REDUCES PAIN AND CARTILAGE DAMAGE IN CHRONIC EXPERIMENTAL OSTEOARTHRITIS  
Lai Wang

5:50 PM – 6:00 PM 44 LATENT TRANSITION ANALYSIS OF PAIN PHENOTYPES IN PEOPLE AT RISK OF KNEE OSTEOARTHRITIS  
Y.V. Raghava Neelapala

6:00 PM – 6:10 PM 45 HIGHER PAIN VARIATION DURING THE SCREENING PHASE IS ASSOCIATED WITH A LARGER PLACEBO RESPONSE – POST-HOC ANALYSIS OF A PHASE 2B KNEE OSTEOARTHRITIS TRIAL  
Jakob Mejdahl Bentin

6:10 PM – 6:20 PM 46 MECHANOSENSITIVE MAS-RELATED G PROTEIN COUPLED RECEPTOR-D EXPRESSING NOCICEPTORS CONTRIBUTE TO PAIN IN SURGICALLY INDUCED MURINE OSTEOARTHRITIS.  
Alia Obeidat

6:20 PM – 6:30 PM 47 ORAL GAVAGE OF DELTA-9-TETRAHYDROCANNABINOL PROVIDES PAIN AND DISEASE MODIFICATION IN MOUSE MODELS OF KNEE OSTEOARTHRITIS  
Anca Maglaviceanu

**6:45 PM – 8:30 PM Early Career Investigator Meet the Mentor Session**

Chairpersons: Anca Maglaviceanu & Rachell Nelligan

Table Topics	
Career Planning and Being Strategic	Managing a Research Group
Beyond hip and knee OA (Spine, hand, ankle, etc.)	Mechanistic studies of OA (cell signaling, inflammation, cytokines, biomarkers, etc.)
Biomechanics & Gait	Pain (Clinical/Mechanistic)
Early-stage OA and Prevention	Patient Partners & Public Involvement in Research
Emerging Therapeutics (stem cells, tissue engineering & regenerative medicine, etc.)	Rehabilitation Medicine, Implementation, and Health Services
Epidemiology and Health Economics	Working with Industry in OA Research
Epigenetics, Genomics, Proteomics, Transcriptomics, Metabolomics	Work-Life Balance in Academia
Imaging for OA	Women in Science

\*Registration is required. The session will start at 6:45 PM. Please arrive on time to ensure you have time to sign in to the session.

6:45 PM – 8:30 PM China Germany Night

**8:30 PM – 10:30 PM Early Career Investigator Meet the Mentor Session Afterparty**



Location TBD

**Saturday, April 20**

7:30 AM – 8:30 AM **Breakfast Workshop C: Practical Aspects of Imaging in Clinical Trials: From Radiography to MRI\***

*Chairpersons: Patrick Omoumi & Frank Roemer*

**Practical Aspects of Imaging in Clinical Trials: Radiography**

*Ali Guerhazi*

**Practical Aspects of Imaging in Clinical Trials: MRI**

*Frank Roemer*

7:30 AM – 8:30 AM

**Breakfast Workshop D:  
What is the Relationship Between Pain and Emotions?\***

*Chairperson: Mona-Dvir Ginzberg*

**What is the Relationship Between Pain and Emotions?**

*Gadi Gilam*

7:30 AM – 8:30 AM

**Breakfast Workshop G:  
OARSI/ASBMR Joint Workshop\***

*Moderators: Gun-il Im & Jennifer Westendorf*

**Novel Approaches to Studying Bone and Joints**

*Hang Lin*

*Caitlyn Collins*

*\*Additional ticketed fee required*

8:45 AM – 10:15 AM

**Concurrent Session 7: Clinical Aspects and Outcomes in OA**

*Moderators: Armaghan Mahmoudian & Grace Lo*

8:45 AM – 9:25 AM

**Sarcopenic Obesity: Why Is It Important in OA?**

*Kristine Godziuk*

9:25 AM - 9:35 AM

48 WORK-RESTRICTING MUSCULOSKELETAL PAIN IN PATIENTS TREATED WITH BARIATRIC SURGERY OR USUAL OBESITY CARE — RESULTS FROM SWEDISH OBESE SUBJECTS, A CONTROLLED INTERVENTION STUDY WITH 20 YEARS FOLLOW-UP

*Stefan Lohmander*

9:35 AM - 9:45 AM

49 A COMPARISON OF SURGICAL OUTCOME AND EQUITABLE ACCESS FOR HIP, KNEE AND LUMBAR SPINE SURGERY FOR ENDSTAGE OSTEOARTHRITIS.

*Y. Raja Rampersaud*

9:45 AM - 9:55 AM

50 EFFICACY OF XT-150, A NOVEL NON-VIRAL GENE THERAPY DELIVERING IL-10 $\nu$ , ON MODERATE TO SEVERE PAIN DUE TO KNEE OSTEOARTHRITIS: PATIENT SUBGROUP ANALYSIS

*Howard Rutman*

9:55 AM – 10:05 AM

51 SGLT2 INHIBITORS VS. GLP1 AGONISTS AS TREATMENTS FOR OSTEOARTHRITIS

*S. Reza Jafarzadeh*

10:05 AM - 10:15 AM

52 THE OARSI JOINT EFFORT INITIATIVE'S PRIORITIES FOR OSTEOARTHRITIS MANAGEMENT PROGRAM IMPLEMENTATION AND RESEARCH 2024-2028

*Jocelyn L. Bowden*

8:45 AM – 10:15 AM

**Concurrent Session 8: Beyond Hip and Knee OA**

*Moderators: Martin van der Esch & Margreet Kloppenburg*

8:45 AM – 9:25 AM

**Molecular Pathways in Intervertebral Disc Degeneration and Facet Joint OA**

*Raja Rampersaud*

## OARSI 2024 World Congress on Osteoarthritis Program

9:25 AM - 9:35 AM	53 METHODS - A RANDOMIZED CONTROLLED TRIAL OF METHOTREXATE TO TREAT HAND OSTEOARTHRITIS WITH SYNOVITIS: A POST-HOC ANALYSIS Flavia Cicuttini
9:35 AM - 9:45 AM	54 METABOLIC SYNDROME IS ASSOCIATED WITH MORE PAIN IN HAND OSTEOARTHRITIS: RESULTS FROM THE DIGICOD COHORT Alix Charton
9:45 AM - 9:55 AM	55 CHRONIC EROSIIVE HAND OSTEOARTHRITIS PATIENTS HAVE HIGHER RISK TO EXPERIENCE SEVERE PAIN THAN TREATED RHEUMATOID ARTHRITIS PATIENTS: A COMPARATIVE STUDY BETWEEN DIGICOD AND ESPOIR COHORTS Alice Courties
9:55 AM – 10:05 AM	56 DETERMINATION OF AN EPIGENETIC POLYGENIC RISK SCORE TO PREDICT RECOVERY FROM PAIN FOLLOWING SURGICAL INTERVENTION FOR LUMBAR SPINAL STENOSIS DUE TO SPINE OSTEOARTHRITIS Y. Raja Rampersaud
10:05 AM - 10:15 AM	57 THE RELATIVE IMPORTANCE OF STRUCTURAL CHANGES OF RADIOGRAPHIC OSTEOARTHRITIS AND PAIN IN MULTIPLE SITES: THE JOHNSTON COUNTY OSTEOARTHRITIS PROJECT Amanda E. Nelson

10:15 AM – 10:45 AM BREAK

10:20 AM – 10:35 AM Theater Session



### 10:45 AM – 12:15 PM **Plenary Session 5: Bioengineering and Advanced Materials in OA**

*Moderators: Mona Dvir-Ginzberg & Barbara Chan*

#### 10:45 AM – 11:25 AM **Strategies in Cell-Matrix Regeneration**

*Sylvia Nürnberger*

11:25 AM – 11:35 AM 58 LIPOSOMAL INTRA-ARTICULAR GEL PROVIDES COMPONENTS FOR ULTRA-LOW FRICTION IN THE SYNOVIAL JOINT, THUS IMPROVING CLINICAL AND FUNCTIONAL OUTCOMES OF PATIENTS WITH OSTEOARTHRITIS  
Pawel Bakowski

11:35 AM – 11:45 AM 59 EFFICACY OF A BIODEGRADABLE POLYMER-BASED IL-1RA FORMULATION AFTER INTRA-ARTICULAR DELIVERY IN A RAT ACLT OA MODEL  
Sylvestre Grizot

11:45 AM – 11:55 AM 60 ALLOGRAFT ADIPOSE MATRIX INCREASES IL-10 WITHOUT SIGNIFICANTLY ALTERING OTHER MEDIATORS OF OSTEOARTHRITIS  
Andrea Karen Persons

11:55 AM – 12:05 PM 61 INVESTIGATING THE USE OF INTRA-ARTICULAR INJECTIONS OF GSK3787 FOR OSTEOARTHRITIS  
Ermina Hadzic

12:05 PM – 12:15 PM 62 A SINGLE PLACENTA-DERIVED MESENCHYMAL-LIKE STROMAL CELL INJECTION HALTS PROGRESSION OF PRIMARY KNEE OSTEOARTHRITIS – FIRST PRECLINICAL RESULTS FROM THE PROTO CONSORTIUM  
Tazio Maleitzke

### 12:30 PM – 2:00 PM **Early Career Investigator (ECI) Luncheon Workshop: Perfecting Your Elevator Pitch\***

*Chairpersons: Matt Harkey & Brooke Patterson*

**The Art of the Elevator Pitch**

*Jackie Whittaker  
Erin Macri*

**Elevator Pitch Examples**

*Jamie Collins  
Tom Appleton*

In this workshop, Early Career Investigator attendees will hear from two experienced researchers on the "Art of an elevator pitch". This includes its significance, the appropriate contexts for its use, and ways to tailor it for different audiences. The workshop will offer practical guidance on enhancing engagement, clarity, and both verbal and non-verbal communication skills. Additionally, previous OARSI Rising Star Awardees will give example elevator pitches. Attendees will then have the option to participate in a practical session: (I) round-robin presentations on each table, with each participant delivering their pitch and receiving feedback (II) best presentations from each small group will present to the whole group. Judges (presenters and other senior OARSI representatives) will select a best pitch winner. Attendees will also select a people's choice winner.

*\*Registration is required*

**2:00 PM - 3:30 PM Concurrent Session 9: News in Therapies**

*Moderators: Jean Liew & Nancy Lane*

**2:00 PM – 2:40 PM Rediscovering Botulinum Toxin in OA**

*Christelle Nguyen*

2:40 PM – 2:50 PM

63 EFFICACY OUTCOMES IN PATIENTS WITH KNEE OSTEOARTHRITIS: PER-PROTOCOL ANALYSES FROM SPRINGBOARD, A PHASE 2, RANDOMIZED, 24-WEEK STUDY OF EP-104IAR (LONG-ACTING INTRA-ARTICULAR INJECTION OF FLUTICASONE PROPIONATE)  
James A. Helliwell

2:50 PM – 3:00 PM

64 DICKENS: A MULTICENTRE RANDOMIZED CONTROLLED TRIAL OF DIACEREIN FOR KNEE OSTEOARTHRITIS WITH EFFUSION-SYNOVITIS  
Dawn Aitken

3:00 PM – 3:10 PM

65 EFFICACY AND SAFETY OF AN INTRA-ARTICULAR PLACENTAL TISSUE PARTICULATE (MOTYS/PTP-001) IN SYMPTOMATIC KNEE OSTEOARTHRITIS OVER 26 WEEKS: A PLACEBO-CONTROLLED, DOUBLE-BLIND RANDOMIZED CLINICAL TRIAL  
Alessandra Pavesio

3:10 PM – 3:20 PM

66 EFFECTS OF PENTOSAN POLYSULFATE SODIUM ON CLINICAL OUTCOMES AND DISEASE MODIFYING BIOMARKERS IN MODERATE TO SEVERE KNEE OSTEOARTHRITIS  
Mukesh Ahuja

3:20 PM – 3:30 PM

67 A RANDOMIZED PLACEBO-CONTROLLED TRIAL OF ORAL RESVERATROL FOR PATIENTS WITH PAINFUL KNEE OSTEOARTHRITIS (ARTHROL)  
Christelle Nguyen

**2:00 PM – 3:30 PM Concurrent Session 10: Molecular Drivers of OA**

*Moderators: Raghu Yammani & Ingrid Meulenbelt*

- 2:00 PM – 2:40 PM **Phagocyte-Induced Fibroblast Gene Activation: Novel Insights in Regenerative Medicine**  
*Thomas Lozito*
- 2:40 PM – 2:50 PM 68 EXAMINING THE ROLE OF SIRT1 CLEAVAGE ON AGE-DEPENDENT OA PROGRESSION FOR MALE MICE  
Mona Dvir-Ginzberg
- 2:50 PM – 3:00 PM 69 INTRA-ARTICULAR ADMINISTRATION OF AGRIN INDUCES RAPID AND SUSTAINED PAIN RELIEF IN OSTEOARTHRITIS  
Suzanne Eldridge
- 3:00 PM – 3:10 PM 70 LOSS OF MITOCHONDRIAL UNFOLDED PROTEIN RESPONSE CHAPERONIN AGGRAVATES CHONDROCYTE CATABOLISM AND OSTEOARTHRITIC DEGENERATION  
Yu Shan Chen
- 3:10 PM – 3:20 PM 71 IDENTIFICATION AND CHARACTERIZATION OF MIR-126-3P AS A DIAGNOSTIC BIOMARKER, MECHANISTIC DRIVER, AND THERAPEUTIC TARGET FOR KNEE OSTEOARTHRITIS  
Thomas G. Wilson
- 3:20 PM – 3:30 PM 72 MANGANESE DIOXIDE NANOZYMES AS AN ROS SCAVENGING THERAPY FOR OSTEOARTHRITIS  
Jessica Aldrich

3:30 PM – 5:00 PM **POSTER SESSION 2**



- 3:30 PM – 4:15 PM Odd Numbers  
4:15 PM – 5:00 PM Even Numbers

5:00 PM – 6:00 PM **Plenary Session 6 – DEBATE**

*Moderators: Ida Haugen & Ali Mobasheri*

**Steroid Intra Articular Joint Injection in OA: Pro vs. Con**

*Margreet Kloppenburg (Pro) vs. David Hunter (Con)*

6:00 PM – 6:50 PM Late Breaking Oral Abstract Podium Session

7:30 PM – 10:30 PM **Offsite Dinner Event\***

Luftburg - Kolarik in the Prater  
Prater 128, Waldsteingartenstrasse, 1020 Vienna

*\*Additional registration fee and ticket are required to attend.*

## Sunday, April 21

7:30 AM – 8:30 AM **Breakfast Workshop E: Preventing Osteoarthritis After an Anterior Cruciate Ligament Injury: An Osteoarthritis Action Alliance Consensus Statement\***

*Chairpersons: Ali Mobasher & Elizabeth Wellsandt*

**Mechanisms for Osteoarthritis Progression and Opportunities for Intervention After ACL Injury**

*Elizabeth Wellsandt*

**OAAA Consensus Statement and Recommendations to Mitigate Osteoarthritis After ACL Injury**

*Laura Schmitt*

**7:30 AM – 8:30 AM Breakfast Workshop F: Exploring OA Biology Through the Synovial Fluid\***

*Chairperson: Tonia Vincent*

**Methodology, Drawbacks, and Advantages of Synovial Fluid Investigations**

*Tonia Vincent*

*\*Additional ticketed fee required*

**8:45 AM – 10:15 AM Concurrent Session 11: Advanced Bioinformatic and Multiomic in OA Research**

*Moderators: Marie Binvignat & Anca Maglaviceanu*

**8:45 AM – 9:25 AM ApprOaching Endotypes in OA**

*Jaume Bacardit*

9:25 AM - 9:35 AM 73 IMMUNOLOGICAL PROFILING OF PAIN IN KNEE OSTEOARTHRITIS: TREG CELLS AS POTENTIAL NEW KEY PLAYERS IN SYMPTOMATIC KNEE OSTEOARTHRITIS.  
*Marie Binvignat*

9:35 AM - 9:45 AM 74 SYNOVIAL FLUID BASED MOLECULAR ENDOTYPES IN KNEE OSTEOARTHRITIS: FULL PRIMARY ANALYSIS FROM THE STEPUp OA CONSORTIUM  
*Yun Deng*

9:45 AM - 9:55 AM 75 SPATIAL AND MORPHOMETRIC ANALYSIS OF OSTEOARTHRITIS-RELATED HISTOLOGICAL CHANGES IN RODENTS USING DEEP-LEARNING  
*Jacob Lee Griffith*

9:55 AM – 10:05 AM 76 AN ATLAS OF THE SYNOVIUM IN KNEE OSTEOARTHRITIS: FIBROBLAST ACTIVATION DEFINES DISEASE PROGRESSION  
*Kabriya Thavaratnam*

10:05 AM - 10:15 AM 77 LONGITUDINAL STABILITY OF MOLECULAR ENDOTYPES OF KNEE OSTEOARTHRITIS PATIENTS FROM THE APPROACH COHORT  
*Monica Toft Hannani*

**8:45 AM – 10:15 AM Concurrent Session 12: Beyond the Joint: Systemic Context, Co-Morbidities and Other Organs**

*Moderators: Larry Moreland & Andrea Dellisola*

**8:45 AM – 9:25 AM Going into the Brain to Decipher Joint Pain**

*Dorothee Auer*

9:25 AM - 9:35 AM 78 THE IMPACT OF AN INTERVENTION FOR OSTEOARTHRITIS BASED ON EXERCISE AND EDUCATION ON METABOLIC HEALTH: A REGISTER-BASED STUDY  
*Simone Battista*

9:35 AM - 9:45 AM 79 EXPLORING ASSOCIATIONS BETWEEN PRO-INFLAMMATORY CYTOKINES, OBESITY ASSOCIATED OSTEOARTHRITIS, AND GUT MICROBIOME COMPOSITION USING MACHINE LEARNING  
*Cameron Edward Kurz*



## OARSI 2024 World Congress on Osteoarthritis Program

9:45 AM - 9:55 AM	80 NO OBSERVABLE DIFFERENCES IN THE GUT MICROBIOME OF OSTEOARTHRITIS PATIENTS Kajetana Bevc
9:55 AM – 10:05 AM	81 OSTEOARTHRITIS AND SEVERE CARDIOVASCULAR DISEASE - A SHARED ETIOLOGY? Karin Magnusson
10:05 AM - 10:15 AM	82 EARLY- AND LATE-STAGE OSTEOARTHRITIS PATIENTS EXHIBIT AN AUTONOMIC DYSFUNCTION Rebecca Sohn

10:15 AM – 10:30 AM BREAK

### 10:30 AM - 12:15 PM **Plenary Session 7: YEAR IN REVIEW**



*Moderators: Mona Dvir-Ginzberg & Jérémie Sellam*

10:30 AM – 10:45 AM	<b>OA Clinical: Epidemiology and Therapy</b> <i>Alice Courties</i>
10:45 AM – 11:00 AM	<b>Imaging</b> <i>Daichi Hayashi</i>
11:00 AM – 11:15 AM	<b>Rehabilitation &amp; Outcomes</b> <i>Belinda Lawford</i>
11:15 AM – 11:30 AM	<b>Biomechanics in OA</b> <i>Annegret Mündermann</i>
11:30 AM – 11:45 AM	<b>Biomarkers</b> <i>Ron K. June</i>
11:45 AM – 12:00 PM	<b>Genetics, Genomics, and Epigenetics</b> <i>Cindy Boer</i>
12:00 PM – 12:15 PM	<b>OA Biology</b> <i>Frank Zaucke</i>