

OARSI 2025 WORLD CONGRESS PROGRAM



THURSDAY, APRIL 24, 2025

8:00 AM - 10:30 AM	Pre-Congress Workshop A: OA Management and Epidemiology in Asia
Moderators:	Jillian Eyles
8:00 AM - 8:10 AM	The Burden of OA and the Implementation of Best Evidence Care in Korea and Asia Ji Hyeon Joo
8:10 AM - 8:30 AM	Education For Self-Management and Behavior Change Jocelyn Bowden
8:30 AM - 8:50 AM	Physical Activity and Exercise Rana Hinman
8:50 AM - 9:10 AM	Weight Management and Diet Marius Henriksen
9:10 AM - 9:40 AM	Break
9:40 AM - 10:00 AM	Pharmacotherapies, Injectables and Dietary Supplements Shirley Yu
10:00 AM - 10:15 AM	Changing The Narrative Around Oa: Potential Strategies to Address Unhelpful Misconceptions Naomi Smick Behara

10:15 AM - 10:30 AM **Interactive Case-Studies and Question Time with Moderators**

8:00 AM - 10:30 AM **Pre-Congress Workshop B:
Navigating Sex Disparities in OA from Joint Anatomy to Sub-Cellular
Control**

Moderators: Paula Hernandez
Tristan Maerz

8:00 AM - 8:15 AM **Factors in Joint Anatomy that Could Influence the Development of
OA**
Felix Eckstein

8:20 AM - 8:35 AM **How Sex Hormones, or the Lack of Them, Impact the Path to OA**
Fiona Watt

8:40 AM - 8:55 AM **Sex Differences in Cartilage Repair and Tissue Engineering**
Do Young Park

9:00 AM - 9:30 AM **30-Minute Break**

9:30 AM - 9:45 AM **Sex Hormones and Chondrocyte Mechanobiology Pre-OA**
Paula A. Hernandez

9:50 AM - 10:05 AM **Sex-Specific Genomics and Epigenomics in OA**
Peter Kreitmaier

10:10 AM - 10:30 AM **Discussion Panel**

8:00 AM - 10:30 AM **Pre-Congress Workshop C: The Art of Artificial Intelligence in OA:
Painting a Clearer Picture**
Organized By the Early Career Investigators

Moderators: Matt Harkey

8:05 AM - 8:30 AM **AI Applications in OA Research: From Imaging to Biomechanics**
Kerry Costello

8:35 AM - 9:00 AM **Large Language Models in OA – Clinical and Research Applications**
Bella Mehta

9:30 AM - 9:55 AM **AI Applications in Imaging: OAC Special Issue Highlights**
Chunyi Wen

10:00 AM - 10:25 AM **The Future of AI in OA Publishing**
Anne-Marie Malfait and David Hunter

11:00 AM - 12:30 PM **OAC & OACO Journal Session**
Organized by the OAC & OACO Journal

Welcome:

Editors in Chief, OAC and OAC Open

Scientific Session:

Paper of the Year Award presentations
Biostatistical Methods Update

Award Ceremony:

Recognition of Reviewers of the Year, Mentors & Mentees & Guest Editors

2:00 PM - 3:30 PM **Plenary Session 1**
The Enemy from Within: Systemic Influences Driving OA

Moderators: Martin Englund
Gun-il Im

2:00 PM - 2:30 PM **Metabolic Players in the Musculoskeletal System**
Clifford Rosen

2:30 PM - 3:00 PM **Peripheral and Central Mechanisms of Chronic Musculoskeletal Pain**
TBD

3:00 PM - 3:10 PM O-1: Oral Abstract Presentation

3:10 PM - 3:20 PM O-2: Oral Abstract Presentation

3:20 PM - 3:30 PM O-3: Oral Abstract Presentation

3:30 PM - 3:45 PM Break

3:45 PM - 5:15 PM **Plenary Session 2**
Highest Rated Abstracts by Early Career Investigators

Moderators: Ji Hyeon Ju
Eun Ah Lee

3:45 PM - 3:55 PM O-4: Oral Abstract Presentation

3:55 PM - 4:05 PM O-5: Oral Abstract Presentation

4:05 PM - 4:15 PM O-6: Oral Abstract Presentation

4:15 PM - 4:25 PM O-7: Oral Abstract Presentation

4:25 PM - 4:35 PM O-8: Oral Abstract Presentation

4:35 PM - 4:45 PM O-9: Oral Abstract Presentation
4:45 PM - 4:55 PM O-10: Oral Abstract Presentation
4:55 PM - 5:05 PM O-11: Oral Abstract Presentation
5:05 PM - 5:15 PM O-12: Oral Abstract Presentation

5:15 PM - 5:30 PM Break

5:30 PM - 6:30 PM **Opening Ceremony & Awards Recognition**

Recognition of Lifetime Achievement, Basic Science, Clinical Science, and Rising Star Award Winners

6:30 PM - 7:30 PM **Plenary 3: Keynote Address
Innovations in Joint Biomimetics and Stem Cells**

Moderators: Mona Dvir-Ginzberg
Muneaki Ishijima

6:30 PM - 7:00 PM **Development of Mini-Joint, an Organ-on-a-Chip, to Model
Osteoarthritis Pathogenesis and Drug Discovery**
Rocky Tuan

7:00 PM - 7:30 PM **Developmental aspect in Stem Cells and Regenerative Medicine**
TBD

7:30 PM - 9:00 PM Opening Reception with Exhibitors

END OF DAY 1

Friday, April 25, 2025

7:30 AM - 8:30 AM **Breakfast Workshop A: Novel Approaches to the Stratified Management
of Knee Osteoarthritis: State of the Art
OARSI-ESCEO Joint Symposium**

Moderators: Martin Englund
Jean-Yves Reginster

7:30 AM - 8:00 AM **The Delineation of Endotype and Phenotype to Identify the Patients with
Knee Osteoarthritis Who Should Be Treated**

Ali Mobasher

8:00 AM - 8:30 AM **The Role of Biomarkers (Imaging, Biological) to Identify the Patients with Knee Osteoarthritis Who Should Be Treated**
Roland Chapurlat

7:30 AM - 8:30 AM **Breakfast Workshop B: Cannabinoid System, Osteoarthritis and Pain***

Moderators: Katarzyna Starowicz
Rafael Maldonado

7:30 AM - 7:50 AM **Cannabinoid System in Brain-Periphery Interactions**
Andras Bilkei-Gorzo

7:50 AM - 8:10 AM **Exploring Cannabinoid-Based Therapeutics for Osteoarthritis: Mechanisms and Efficacy**
Katarzyna Starowicz

8:10 AM - 8:30 AM **Involvement of CB2 Receptors in Chronic Pain**
Rafael Maldonado

*Additional ticketed fee required

8:30 AM - 8:45 AM Break

8:45 AM - 10:15 AM

**Concurrent Session 1:
Risk Factors, Prevention, and Early Disease**

Moderators

Yong In
Brooke Patterson

8:45 AM - 9:25 AM

**Detecting Early Osteoarthritis After Knee Injury:
A Patient-Centered Approach**
Grace Lo

9:25 AM - 9:35 AM

O-13: Oral Abstract Presentation

9:35 AM - 9:45 AM

O-14: Oral Abstract Presentation

9:45 AM - 9:55 AM

O-15: Oral Abstract Presentation

9:55 AM - 10:05 AM

O-16: Oral Abstract Presentation

10:05 AM - 10:07 AM

O-17: Flash Talk

10:07 AM - 10:09 AM

O-18: Flash Talk

10:09 AM - 10:11 AM

O-19: Flash Talk

10:11 AM - 10:13 AM

O-20: Flash Talk

10:13 AM - 10:15 AM

Q & A

8:45 AM - 10:15 AM

**Concurrent Session 2:
Joint Related Tissue**

Moderators

TBD

8:45 AM - 9:25 AM

Bone Marrow Edema in Osteoarthritis and Associated with Pain and Structural Progression

TBD

9:25 AM - 9:35 AM

O-21: Oral Abstract Presentation

9:35 AM - 9:45 AM

O-22: Oral Abstract Presentation

9:45 AM - 9:55 AM

O-23: Oral Abstract Presentation

9:55 AM - 10:05 AM

O-24: Oral Abstract Presentation

10:05 AM - 10:07 AM

O-25: Flash Talk

10:07 AM - 10:09 AM

O-26: Flash Talk

10:09 AM - 10:11 AM

O-27: Flash Talk

10:11 AM - 10:13 AM

O-28: Flash Talk

10:13 AM - 10:15 AM

Q & A

10:15 AM - 10:45 AM

Break

10:45 AM - 12:15 PM

**Plenary Session 4:
The Role of Cartilage Calcification in OA**

Moderators:

Nancy Lane
Armaghan Mahmoudian

10:45 AM - 11:25 AM

Cartilage Calcification in Osteoarthritis: Key Player or Bystander?
Sonia Nasi

11:25 AM - 11:35 AM

O-29: Oral Abstract Presentation

11:35 AM - 11:45 AM

O-30: Oral Abstract Presentation

11:45 AM - 11:55 AM

O-31: Oral Abstract Presentation

11:55 AM - 12:05 PM

O-32: Oral Abstract Presentation

12:05 AM - 12:07 PM

O-33: Flash Talk

12:07 PM - 12:09 PM

O-34: Flash Talk

12:09 PM - 12:11 PM

O-35: Flash Talk

12:11 PM - 12:13 PM O-36: Flash Talk

12:13 PM - 12:15 PM Q & A

12:15 PM - 2:00 PM **Lunch on Own**

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

Moderators Martin van der Esch
Johanna Bolander

2:00 PM - 2:40 PM **The Future of Exercise Therapy in Knee and Hip OA**
Marius Henriksen

2:40 PM - 2:50 PM O-37: Oral Abstract Presentation

2:50 PM - 3:00 PM O-38: Oral Abstract Presentation

3:00 PM - 3:10 PM O-39: Oral Abstract Presentation

3:10 PM - 3:20 PM O-40: Oral Abstract Presentation

3:20 PM - 3:22 PM O-41: Flash Talk

3:22 PM - 3:24 PM O-42: Flash Talk

3:24 PM - 3:26 PM O-43: Flash Talk

3:26 PM - 3:28 PM O-44: Flash Talk

3:28 PM - 3:30 PM Q & A

2:00 PM - 3:30 PM **Concurrent Session 4:
Molecular Circuits Regulating Joint Destruction**

Moderators Chunyi Wen
Ryan Jones

2:00 PM - 2:40 PM **Circadian Rhythms and Daily Patterns of Mechanical Loading and
Hyperosmolarity in Joint Health and Pathology**
Qing-Jun Meng

2:40 PM - 2:50 PM O-45: Oral Abstract Presentation

2:50 PM - 3:00 PM O-46: Oral Abstract Presentation

3:00 PM - 3:10 PM O-47: Oral Abstract Presentation

3:10 PM - 3:20 PM	O-48: Oral Abstract Presentation
3:20 PM - 3:22 PM	O-49: Flash Talk
3:22 PM - 3:24 PM	O-50: Flash Talk
3:24 PM - 3:26 PM	O-51: Flash Talk
3:26 PM - 3:28 PM	O-52: Flash Talk
3:28 PM - 3:30 PM	Q & A

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

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:
Imaging**

Moderators:	Mohamed Jarraya
5:00 PM - 5:40 PM	Pain and Imaging Flavia Cicuttini
5:40 PM - 5:50 PM	O-53: Oral Abstract Presentation
5:50 PM - 6:00 PM	O-54: Oral Abstract Presentation
6:00 PM - 6:10 PM	O-55: Oral Abstract Presentation
6:10 PM - 6:20 PM	O-56: Oral Abstract Presentation
6:20 PM - 6:22 PM	O-57: Flash Talk
6:22 PM - 6:24 PM	O-58: Flash Talk
6:24 PM - 6:26 PM	O-59: Flash Talk
6:26 PM - 6:28 PM	O-60: Flash Talk
6:28 PM - 6:30 PM	Q & A

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

Moderators: Seungwoo Han
Katarzyna Starowicz

5:00 PM - 5:40 PM **Advances in Sodium Channel Mediated Regulation of OA Pain**
Chuan-Ju Liu

5:40 PM - 5:50 PM O-61: Oral Abstract Presentation

5:50 PM - 6:00 PM O-62: Oral Abstract Presentation

6:00 PM - 6:10 PM O-63: Oral Abstract Presentation

6:10 PM - 6:20 PM O-64: Oral Abstract Presentation

6:20 PM - 6:22 PM O-65: Flash Talk

6:22 PM - 6:24 PM O-66: Flash Talk

6:24 PM - 6:26 PM O-67: Flash Talk

6:26 PM - 6:28 PM O-68: Flash Talk

6:28 PM - 6:30 PM Q & A

6:45 PM - 8:00 PM **Early Career Investigators Workshop: (Followed by After Party)**

* Registration is required

End of Day 2

Saturday, April 26, 2025

7:30 AM - 8:30 AM **Breakfast Workshop C: The Role of Muscle in OA***

Moderators: Lara Longobardi
Flavia Cicuttini

7:35 AM - 8:00 AM **Skeletal Muscle Weakness in OA Progression**
TBD

8:00 AM - 8:25 AM **Clinical Associations Between Muscle Strength and OA of the Knee**
Britt Øiestad

7:30 AM - 8:30 AM **Breakfast Workshop D: Using Omics Technologies to Improve Personalized Medicine for Osteoarthritis: Teachings from Cancer and Other Complex Diseases**

Moderators: Mona Dvir-Ginzberg
J r mie Sellam

7:30 AM - 8:00 AM **Omic Approaches to Better Understand OA Pathobiology and Patient Endotypes for Future Personalized Medicine**
Jason Rockel

8:00 AM - 8:30 AM **Modeling Heterogeneity Towards Tailored Medicine: Examples from Cancer**
Nataly Kravchenko-Balasha

*Additional ticketed fee required

8:30 AM - 8:45 AM Break

8:45 AM - 10:15 AM **Concurrent Session 7:
Clinical Aspects and Outcomes in OA**

Moderators Muneaki Ishijima

8:45 AM - 9:25 AM **Intervention Effects Unpacked**
Jeffrey Katz

9:25 AM - 9:35 AM O-69: Oral Abstract Presentation

9:35 AM - 9:45 AM O-70: Oral Abstract Presentation

9:45 AM - 9:55 AM O-71: Oral Abstract Presentation

9:55 AM - 10:05 AM O-72: Oral Abstract Presentation

10:05 AM - 10:07 AM O-73: Flash Talk

10:07 AM - 10:09 AM O-74: Flash Talk

10:09 AM - 10:11 AM O-75: Flash Talk

10:11 AM - 10:13 AM O-76: Flash Talk

10:13 AM - 10:15 AM Q & A

8:45 AM - 10:15 AM

**Concurrent Session 8:
Regenerative Models and Developmental Insight**

Moderators

Ji Hyeon Ju
Magali Cucchiarini

8:45 AM - 9:25 AM

**Role of Neural Crest Derived Cells (NCC) in Limb Regeneration of
Regenerative Model Species**
Farida Djouad

9:25 AM - 9:35 AM

O-77: Oral Abstract Presentation

9:35 AM - 9:45 AM

O-78: Oral Abstract Presentation

9:45 AM - 9:55 AM

O-79: Oral Abstract Presentation

9:55 AM - 10:05 AM

O-80: Oral Abstract Presentation

10:05 AM - 10:07 AM

O-81: Flash Talk

10:07 AM - 10:09 AM

O-82: Flash Talk

10:09 AM - 10:11 AM

O-83: Flash Talk

10:11 AM - 10:13 AM

O-84: Flash Talk

10:13 AM - 10:15 AM

Q & A

10:15 AM - 10:45 AM

Break

10:45 AM - 12:15 PM

**Plenary Session 5:
Pain Mechanisms and Neuroinflammation in OA**

Moderators:

Anne-Marie Malfait
Kai Fu

10:45 AM - 11:25 AM

Neuroinflammation & Pain: Beyond Immune Cells
Franziska Denk

11:25 AM - 11:35 AM

O-85: Oral Abstract Presentation

11:35 AM - 11:45 AM

O-86: Oral Abstract Presentation

11:45 AM - 11:55 AM

O-87: Oral Abstract Presentation

11:55 AM - 12:05 PM

O-88: Oral Abstract Presentation

12:05 AM - 12:07 PM

O-89: Flash Talk

12:07 PM - 12:09 PM

O-90: Flash Talk

12:09 PM - 12:11 PM

O-91: Flash Talk

12:11 PM - 12:13 PM O-92: Flash Talk

12:13 PM - 12:15 PM Q & A

12:15 PM - 2:00 PM **Lunch on Own**

2:00 PM - 3:30 PM **Concurrent Session 9:
Beyond Hip & Knee OA**

Moderators Thomas Link
Garrett Bullock

2:00 PM - 2:40 PM **Mechanosensing and Plasticity of Tendons and Ligaments**
Hiroshi Asahara

2:40 PM - 2:50 PM O-93: Oral Abstract Presentation

2:50 PM - 3:00 PM O-94: Oral Abstract Presentation

3:00 PM - 3:10 PM O-95: Oral Abstract Presentation

3:10 PM - 3:20 PM O-96: Oral Abstract Presentation

3:20 PM - 3:22 PM O-97: Flash Talk

3:22 PM - 3:24 PM O-98: Flash Talk

3:24 PM - 3:26 PM O-99: Flash Talk

3:26 PM - 3:28 PM O-100: Flash Talk

3:28 PM - 3:30 PM Q & A

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

Moderators Cindy Boer
Raghunatha Yammani

2:00 PM - 2:40 PM **Osteoarthritis: Pain, Anxiety, Memory Deficits, and Neurochemical
Changes**
Katarzyna Starowicz

2:40 PM - 2:50 PM O-101: Oral Abstract Presentation

2:50 PM - 3:00 PM O-102: Oral Abstract Presentation

3:00 PM - 3:10 PM O-103: Oral Abstract Presentation

3:10 PM - 3:20 PM O-104: Oral Abstract Presentation
3:20 PM - 3:22 PM O-105: Flash Talk
3:22 PM - 3:24 PM O-106: Flash Talk
3:24 PM - 3:26 PM O-107: Flash Talk
3:26 PM - 3:28 PM O-108: Flash Talk
3:28 PM - 3:30 PM Q & A

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:
Regenerative vs. Pharmacological Medicine for OA Therapy**

Moderators: Jeremie Sellam
Catherine Le Visage

Cell Based Therapy vs Chemically-Based Drugs

Jérôme Guicheux
Vs.
Philip Conaghan

6:10 PM - 6:50 PM **Plenary Session 7:
Highest Rated Late Breaking Abstracts**

Moderators: Muneaki Ishijima

6:10 PM - 6:20 PM LBA
6:20 PM - 6:30 PM LBA
6:30 PM - 6:40 PM LBA
6:40 PM - 6:50 PM LBA

End of Day 3

Sunday, April 27, 2025

7:30 AM - 8:30 AM **Breakfast Workshop E:
Challenges of Linking Pain and Structure in Osteoarthritis***

Moderators: Frank Roemer

7:30 AM - 8:00 AM **Mechanisms and Assessment of Pain in Osteoarthritis**
Kent Kwok

8:00 AM - 8:30 AM **Structural Correlation of Pain: What Do We Know?**
Ali Guerhazi

7:30 AM - 8:30 AM **Breakfast Workshop F: Innovative Evaluation and Interventions in Human Osteoarthritis without Borders***
*Collaboration of OARSI with other societies interested in OA (ESCEO, ICRS, ESSKA, TERMIS, KSCO)

Moderators: Magali Cucchiari
Ali Mobasher

7:30 AM - 7:45 AM **Molecular Endotypes of Osteoarthritis and Implications for Therapeutic Development**
Ali Mobasher

7:45 AM - 8:00 AM **Artificial-Intelligence-Aided Diagnostic of Osteoarthritis**
Stefan Nehr

8:00 AM - 8:15 AM **Cells and Molecular Regulations in Joint Formation and OA**
Danny Chan

8:15 AM - 8:30 AM **Joint-on-Chip Platforms: A New Era of Models for Osteoarthritis**
Marcel Karperien

*Additional ticketed fee required

8:30 AM - 8:45 AM Break

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

Moderators Mohit Kapoor
Anca Maglaviceanu

8:45 AM - 9:25 AM	Gut Microbiome as a Regulator of Osteoarthritis TBD
9:25 AM - 9:35 AM	O-109: Oral Abstract Presentation
9:35 AM - 9:45 AM	O-110: Oral Abstract Presentation
9:45 AM - 9:55 AM	O-111: Oral Abstract Presentation
9:55 AM - 10:05 AM	O-112: Oral Abstract Presentation
10:05 AM - 10:07AM	O-113: Flash Talk
10:07 AM – 10:09 AM	O-114: Flash Talk
10:09 AM – 10:11 AM	O-115: Flash Talk
10:11 AM – 10:13 AM	O-116: Flash Talk
10:13 AM – 10:15 AM	Q & A

8:45 AM - 10:15 AM	Concurrent Session 12: Beyond the Joint: Systemic Context, Comorbidities and Other Organs
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Moderators	Elena Losina Andrea Dell'isola
8:45 AM - 9:25 AM	Sex/Gender Related Differences in OA Paula Hernandez
9:25 AM - 9:35 AM	O-117: Oral Abstract Presentation
9:35 AM - 9:45 AM	O-118: Oral Abstract Presentation
9:45 AM - 9:55 AM	O-119: Oral Abstract Presentation
9:55 AM - 10:05 AM	O-120: Oral Abstract Presentation
10:05 AM - 10:07AM	O-121: Flash Talk
10:07 AM – 10:09 AM	O-122: Flash Talk
10:09 AM – 10:11 AM	O-123: Flash Talk
10:11 AM – 10:13 AM	O-124: Flash Talk
10:13 AM – 10:15 AM	Q & A

10:15 AM - 10:30 AM	Break
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10:30 AM - 12:15 PM

**Plenary Session 8:
Year in Review**

Moderators:

Muneaki Ishijima
Mona Dvir-Ginzberg

10:30 AM – 10:45 AM

Epidemiology and Therapy
Andrea Dell'isola

10:45 AM – 11:00 AM

Biology
Suzanne Eldridge

11:00 AM – 11:15 AM

Genetics, Genomics, and Epigenetics
Amanda Ali

11:15 AM – 11:30 AM

Imaging
Matthew Harkey

11:30 AM – 11:45 AM

Rehabilitation and Outcomes
TBD

11:45 AM – 12:00 PM

Biomechanics and Gait
Kerry Costello

12:00 PM – 12:15 PM

Biomarkers
TBD