

SER **OARSI** **2023** SYMPOSIUM

FROM BIOMARKERS
TO PRECISION MEDICINE
IN KNEE OSTEOARTHRITIS

JUNE 22-23
A Coruña
Spain

#SEROARSI23

❖❖❖ ORGANISING AND SCIENTIFIC COMMITTEE ❖❖❖

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Sagrario Bustabad Reyes
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Gun-il Im
Cristobal Orellana Garrido
Cristina Ruiz-Romero

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Clara Ventín Rodríguez



THURSDAY, JUNE 22nd

13.50-14.00 h WELCOME

PART I: BIOMARKERS IN OA

14.00-15.00 h SESSION 1: Molecular biomarkers for the identification of endotypes in OA

Chairs: Joan Calvet-Fontova & Sarah Rice

- 14.00-14.20 h **Genetics, Genomics and Epigenetics**
Juan Fernández Tajés
- 14.20-14.40 h **Proteomics, Metabolomics and Lipidomics**
Ali Mobasher
- 14.40-15.00 h **Discussion and conclusions**

15.00-16.20 h SESSION 2: Molecular biomarkers for the diagnosis and prognosis of OA phenotypes

Chairs: Raquel Largo-Carazo & Ali Mobasher

- 15.00-15.20 h **Genetics, Genomics and Epigenetics**
Sarah Rice
- 15.20-15.40 h **Mitochondrial genetics**
Alejandro Durán Sotuela
- 15.40-16.00 h **Proteomics, Metabolomics and Lipidomics**
Valentina Calamia
- 16.00-16.20 h **Discussion and conclusions**

16.20-17.00 h COFFEE BREAK & POSTERS

17.00-19.00 h SESSION 3: Clinical and imaging biomarkers

Chairs: Mylène P Jansen & Cristina Ruiz-Romero

- 17.00-17.20 h **OA Phenotypes defined by clinical biomarkers**
Margreet Kloppenburg
- 17.20-17.40 h **Regression to the mean and its importance for pain outcomes in OA clinical trials**
Martin Englund
- 17.40-18.00 h **Structural Fast Progression**
Wolfgang Wirth
- 18.00-18.20 h **The Knee Osteoarthritis Prediction (KNOAP2020) challenge**
Jukka Hirvasniemi
- 18.20-19.00 h **Discussion and conclusions**

FRIDAY, JUNE 23rd

PART II: THERAPY IN OA

09.00-09.50 h SESSION 4: Presentation of Oral Abstracts

Chairs: Valentina Calamia & Gun-il Im

- 09.00-09.10 h **In vitro screening of effective non-viral systems to target human mesenchymal stem cells**
Junquera López-Seijas
- 09.10-09.20 h **Molecular profiles of Infrapatellar Fat Pad: predictors of cartilage repair?**
Berta Cillero-Pastor
- 09.20-09.30 h **Monomeric C reactive protein triggers a sustained pro-inflammatory and catabolic state in cartilage**
Clara Ruiz-Fernández
- 09.30-09.40 h **Upstream modulation of kindlin-2 as a possible therapeutic target for osteoarthritis**
Ana Victoria Rojo-García
- 09.40-09.50 h **SASP mediated by sEV as senomorphic target to treat osteoarthritis**
Sergio Lucio-Gallego

09.50-10.20 h COFFEE BREAK AND POSTERS

10.20-12.30 h SESSION 5: Therapy in Osteoarthritis

Chairs: Francisco Castro-Dominguez & Margreet Kloppenburg

- 10.20-10.40 h **Senolytics, Senescence, Aging**
Martin Lotz
- 10.40-11.00 h **Regenerative Therapies/Chondrogenesis Inductors**
Gun-il Im
- 11.00-11.20 h **Inflammaging and Nutritional treatments**
Yves Henrotin
- 11.20-11.40 h **Metabolic Therapy**
David Hunter
- 11.40-12.00 h **New pharmacological therapies for pain and structure modification**
Phil Conaghan
- 12.00-12.30 h **Discussion and conclusions**

12.30-14.00 h LUNCH AND POSTERS



PART III: PRECISION MEDICINE IN OA

14.00-15.00 h SESSION 6: Pain in OA

Chairs: Josep Vergés-Milano & Wolfgang Wirth

- 14.00-14.20 h Identification of novel targets for osteoarthritis pain
Rachel E Miller
- 14.20-14.40 h Osteoarthritis chronic pain phenotype
Mylène P Jansen
- 14.40-15.00 h Discussion and conclusions

15.00-16.00 h SESSION 7: Patients and RRI

Chairs: Yves Henrotin & Cristobal Orellana-Garrido

- 15.00-15.20 h Point of view of the Dutch Arthritis Foundation
Corné Baatenburg de Jong
- 15.20-15.40 h Point of view of OAFI
Josep Vergés-Milano
- 15.40-16.00 h Discussion and conclusions

16.00-16.30 h COFFEE BREAK AND POSTERS

16.30-17.30 h SESSION 8: Precision Medicine in Pre-Radiographic OA

Chairs: Juan Fernández-Tajes & Martin Lotz

- 16.30-16.50 h Can we predict who will develop early knee OA?
Fiona Watt
- 16.50-17.10 h Definition of Asymptomatic OA phase (Prevention OA)
Sebastián C Rodríguez-García
- 17.10-17.30 h Discussion and conclusions

17.30-18.30 h SESSION 9: Debate: Is OA ready for precision medicine?

Chairs: Jukka Hirvasniemi & Fiona Watt

- 17.30-17.50 h OA is ready to apply for precision medicine
Rocío Castro-Viñuelas
- 17.50-18.10 h It is not time yet for precision medicine in OA
Simon Mastbergen
- 18.10-18.30 h Discussion and conclusions

18.30h CLOSING

SPEAKERS

Corné Baatenburg de Jong

Deputy Director and Manager of Operations and Funding. Dutch Arthritis Society, the Netherlands

Valentina Calamia

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REGISTRATION

CATEGORIES	Regular	On-site registration
MD, Professor, PhD, lab director	200€	250€
Postdoc, Student, Resident, Fellow, Nurse, etc	100€	150€

* Please note that registration fees do not include travel expenses, accomodation and the Gala Dinner

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