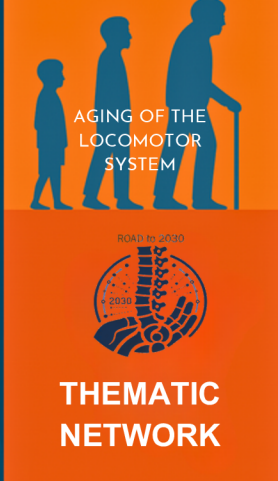


PAIN AND  
INFLAMMATION IN  
MUSCULOSKELETAL  
DISORDERS



AGING OF THE  
LOCOMOTOR  
SYSTEM



EPIDEMIOLOGY:  
THE BURDEN OF  
MUSCULOSKELETAL  
DISORDERS



# Symposium ROAD to 2030

November 17th, 2025  
Amphithéâtre Buffon – Paris

THEMATIC  
NETWORK

METABOLISM

08h45 – 09h15

WELCOME COFFEE

09h15 – 09h25

INTRODUCTION

**Didier Samuel**, Chairman and CEO Inserm

09h25 – 10h45

SESSION 1 – PAIN AND INFLAMMATION IN MUSCULOSKELETAL DISORDERS

Chairs: **Alice Courties** & **David Moulin**

09h30 – 10h10

Stromal cells – critical drivers of pain in arthritis?

**Franziska Denk**, Kings College London (UK)

10h10 – 10h45

Selected talks

- A rare variant in the *Extl3* gene is associated with altered Wnt signaling pathway in a novel mouse model of axial spondyloarthritis  
**Stéphane Hilliquin**, UMR 1333 - Montrouge
- Transcriptomic and epigenetic regulation of skeletal stem/progenitor cells during bone regeneration  
**Maria Ethel**, UMR 955 - Créteil
- Exposure To Endocrine Disruptors Exacerbates Osteoarthritic Pain And Inflammatory Responses In A Sex-Dependent Manner  
**Elise Herardot**, UMR 938 - Paris

10h45 – 11h00

COFFEE BREAK

11h00 – 11h10

BEING PATIENT IN 2030

**Françoise Alliot Launois**, President of AFLAR

11h10 – 12h25

SESSION 2 – AGING OF THE LOCOMOTOR SYSTEM

Chairs: **Bénédicte Chazaud** & **France Pietri-Rouxel**

11h10 – 11h50

Therapeutic landscape of strategies targeting age-related sarcopenia and the potential of GDF5-based treatments

**Sestina Falcone**, Centre de recherche en myologie - Paris

11h50 – 12h25

Selected talks

- Characterisation of the role of ShcA as a new player in osteochondrogenesis  
**Zahida Hadidi**, UMR 1109 - Strasbourg
- Unveiling the role of the stromal factor Chi3L1 and its association with senescence in osteoarthritis  
**Georges Maroun**, UMR 1183 - Montpellier
- Study of the behavior of joint tissues and cartilage tissue-engineered products in contact with polydimethylsiloxane  
**Nicolas Potier**, UMR 7365 - Nancy

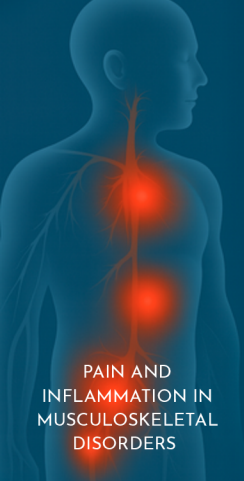
12h25 – 12h35

TIME FOR A BREAK? NO NOT AT ALL! LET'S MOVE FORWARD TOGETHER!

**Corné Baatenburg de Jong**, Deputy Director ReumaNederland

12h35 – 13h30

LUNCH BREAK



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13h30 – 13h50

## EUROPEAN CALLS – CLUSTER HEALTH

**Aude Raimbault**, Inserm European Affairs Officer

13h50 – 14h00

## ARTHRITIS, EMPOWERING TOMORROW'S SCIENTIFIC LEADERS

**Lionel Comole**, Chief Executive Fondation Arthritis

14h00 – 15h15

## SESSION 3 – EPIDEMIOLOGY: THE BURDEN OF MUSCULOSKELETAL DISORDERS

Chairs: **Roland Chapurlat & Francis Guillemin**

14h00 – 14h40

The developing epidemiology of musculoskeletal disorders

**Nicholas Fuggle**, University of Southampton (UK)

14h40 – 15h15

### Selected talks

- Erosive Hand Osteoarthritis is Associated with Increased Risk of incident Osteoporotic Fractures in Post-Menopausal Women (QUALYOR Cohort)  
**Maxime Auroux**, UMR 1033 - Lyon
- Risk factors for structural progression of knee osteoarthritis: data from the KHOALA cohort  
**Augustin Latourte**, UMR 1132 - Paris
- Atopy is a comorbidity associated with osteoarthritis severity: results from the KHOALA COHORT  
**Kimberley Dolium**, UMR 938 - Paris

15h15 – 16h00

## POSTERS AND COFFEE BREAK



Scan this QR code to access the Poster Booklet,  
including authors, abstracts, and more.



16h00 – 17h15

## SESSION 4 – METABOLISM IN MUSCULOSKELETAL DISORDERS

Chairs: **Claudine Blin & Claire Vinatier**

16h00 – 16h40

The mitochondria heterogeneity upon aging

**Jean-Philippe Pradère**, RESTORE lab - Toulouse

16h40 – 17h15

### Selected talks

- Multimodal analysis of osteoarthritic chondrocytes reveals mitochondrial alterations and patient-specific OxPhos response to bezafibrate  
**Lucie Danet**, UMR 1229 - Nantes
- NLRP12 in osteoarthritis : a novel regulator of inflammation ?  
**Anaïs Julien**, UR 7451 - Caen
- Prolonged enzyme-mediated glucose delivery to support Mesenchymal Stromal Cell survival in ischemic environments  
**Samantha Magnin**, UMR 1271 - Paris

17h15 – 17h30

## CONCLUSION