



ARCO MEETING 2026

SCIENTIFIC PROGRAM

SEPTEMBER 22nd-23rd



SCIENTIFIC PROGRAM • TUESDAY, SEPTEMBER 22nd

08:00-08:05 - **SALÓN DE ACTOS**

OPENING AND WELCOME

Stuart B. Goodman, United States

Lynne Jones, United States

Quanjun Cui, United States

08:05-08:30 - **SALÓN DE ACTOS**

Guest Lecture

Chair: Stuart B. Goodman, United States

HISTORICAL PERSPECTIVE OF OSTEONECROSIS

Michael Mont, United States

08:30-10:00 - **SALÓN DE ACTOS**

Updates from the Executive Director and the Regional Vice Presidents of Arco

Chairs: Stuart B. Goodman, United States

Lynne Jones, United States

Quanjun Cui, United States

WHAT'S NEW IN THE LAST 2 YEARS FROM BENCH TO BEDSIDE?

10:00-10:30 Coffee break and Poster viewing

10:30-11:30 - **SALÓN DE ACTOS**

Update on CPG on ONFH

Chair: Quanjun Cui, United States

UPDATE ON CPG ON ONFH

Edward Cheng, United States

11:30-12:30 - **SALÓN DE ACTOS**

Panel Discussion

Chairs: Harry Kim, United States

Daniel Wiznia, United States

ARE THERE DIFFERENCES IN PRESERVATION OF THE HIP IN STAGE I AND II NON-TRAUMATIC ONFH – ADOLESCENCE VS YOUNG ADULT VS OLDER ADULT

Seung-Hoon Baek, South Korea

Edward Cheng, United States

Philippe Hernigou, France

Takashi Sakai, Japan

Yong Feng, China

Dewei Zhao, China

12:30-13:30 Lunch, Networking and Poster viewing

13:30-14:00 - **SALÓN DE ACTOS**

Guest Lecture

Chair: Lynne Jones, United States

WHAT REALLY CONSTITUTES OSTEONECROSIS OF THE KNEE AND WHAT ARE THE TREATMENT OPTIONS?

Quanjun Cui, United States

14:00-15:00 - **SALÓN DE ACTOS**

Panel Discussion

Chairs: Yong-Chan Ha, South Korea

Nobuhiko Sugano, Japan

IS HIP PRESERVATION A VIABLE OPTION IN STAGE IIIA AND IIIB ONFH?

Wataru Ando, Japan

Edward Cheng, United States

Takashi Sakai, Japan

Jirong Shen, China

Daniel Wiznia, United States

Dewei Zhao, China

15:00-16:00 - **SALÓN DE ACTOS**

Open Papers 1

CELLS AND MOLECULES

Chairs: Wataru Ando, Japan

Daniel Wiznia, United States

15:00-15:07

Endothelial-To-Mesenchymal Transition Drives Vascular Dysfunction In Steroid-Induced Osteonecrosis Of The Femoral Head

Xiaoqiang Yang, China

15:07-15:14

Mechanism Of Femoral Head Lymphatic Drainage Dysfunction In Steroid-Induced Osteonecrosis Of The Femoral Head And Interventional Study On The VEGF-C/VEGFR-3 Axis

Baoyi Liu, China

15:14-15:21

Chimeric Osteonecrosis After Allogeneic Or Autologous Repair By Sex-Mismatched Cell Therapy Injection In Hip Osteonecrosis Of Patients With Hematologic Cancer: A Correlative MRI And Histological Study Of 20 Human Specimens

Philippe Hernigou, France

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15:21-15:28

Prevention Of Disease Progression With Cell Therapy In Contralateral Hip Osteonecrosis In Patients Undergoing Total Hip Arthroplasty: A Propensity-Score-Matched Cohort Study

Philippe Hernigou, France

15:28-15:35

An Allogeneic, Cryopreservable Pre-Osteoblastic Product Derived From Human Umbilical Cord MSCs Enables Coupled Osteogenesis And Angiogenesis For Vascularized Bone Regeneration

Hyun Sook Park, South Korea

15:35-15:42

Safety And Efficacy Of Cell Therapy Based On Osteoblast Derived From Umbilical Cord Mesenchymal Stem Cells For Osteonecrosis Of The Femoral Head : Open-Label, Phase I Clinical Trial

Seung-Hoon Baek, South Korea

15:42-15:49

Danshenol A Alleviates Steroid-Induced Osteonecrosis Of The Femoral Head: P38/CHOP/GPX4-Mediated Inhibition Of Endothelial Ferroptosis

Jiaru Liao, China

15:49-15:56

BAX/MTORC2-Dependent Mitoxyperilysis Drives Endothelial Collapse In Steroid-Induced Femoral Head Osteonecrosis

Yun Zhu, China

16:00-16:30 **Coffee break and Poster viewing**

16:30-17:30 - **SALÓN DE ACTOS**

Open Papers 2

IMAGING AND OTHER DIAGNOSTIC MODALITIES

Chairs: Seung-Hoon Baek, South Korea

Takashi Sakai, Japan

16:30-16:37

Construction Of A Three-Dimensional Pathological Model Based On DSA-CT-MRI Multimodal Image Fusion And Its Quantitative Evaluation In ARCO Staging Of Osteonecrosis Of The Femoral Head

Jiawei Ying, China

16:37-16:44

Quantitative Analysis Of Microcirculation Impairment In Osteonecrosis Of The Femoral Head In Relation To ARCO Staging: A Study Based On DSA Hemodynamic Parameters

Jiawei Ying, China

16:44-16:51

Joint Preservation Or Arthroplasty? Imaging-Derived Risk Stratification At The ARCO II-III Threshold In Osteonecrosis Of The Femoral Head: A Systematic Review

Haley Mae Cox, United States

16:51-16:58

Blood Supply Staging Of Osteonecrosis Of The Femoral Head And Its Clinical Application

Dewei Zhao, China

16:58-17:05

Prediction Of Femoral Head Collapse Using Weight-Bearing Lateral View Assessment With Tomosynthesis In Idiopathic Osteonecrosis Of The Femoral Head

Masahiro Numa, Japan

17:05-17:12

Cartilage And Subchondral Bone Discontinuity In ONFH: Pathological Prevalence And Its Role As A Predictor Of THA Conversion

Kuan-Lin Chen, United States

17:12-17:19

Lateral Weight-Bearing Sclerotic Rim-to-Necrotic Area Signal Intensity Ratio Predicts Disease Progression In Osteonecrosis Of The Femoral Head

Jie Feng, China

17:30-18:30 - **SALÓN DE ACTOS**

OPEN PAPERS 3

TREATMENT OUTCOMES

Chairs: Masaki Takao, Japan

Yong Feng, China

Dewei Zhao, China

17:30-17:37

Vascularized Versus Nonvascularized Fibular Grafting For Osteonecrosis Of The Femoral Head: A 20-Year Comparative Outcome Study

Seung-Hoon Baek, South Korea

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17:37-17:44

Total Hip Arthroplasty In 125 Hips With End-Stage Osteonecrosis Of Very Young Patients (<21 Years): 40-Year Follow-Up Period (Range 30 To 50)

Philippe Hernigou, France

17:44-17:51

Clinical And Biomechanical Evaluation Of Pedicled Vascularized Iliac Bone Grafting For Osteonecrosis Of The Femoral Head: A Multimodal Imaging And Finite Element Study

Jirong Shen, China

17:51-17:58

Radiographic Outcomes Of Prolonged Abduction Containment Immobilization In Legg-Calvé-Perthes Disease: A 427-Hip Retrospective Cohort Study And Systematic Review

Tiantian Xia, China

17:58-18:05

Current Status And Risk Factors For Periprosthetic Joint Infection Following Hip Arthroplasty In Patients With Osteonecrosis Of The Femoral Head In Japan

Takashi Imagama, Japan

18:05-18:12

Residual Susceptibility To Osteonecrosis Despite Three-Drug Prophylaxis: Insights From Early Laboratory Dynamics After Glucocorticoid Initiation In Systemic Lupus Erythematosus

Goro Motomura, Japan

18:12-18:19

Biological Adjuncts Do Not Reduce Five-Year Progression To Total Hip Arthroplasty Following Core Decompression For Osteonecrosis Of The Femoral Head

Annie Lily McDonald, United States

18:19-18:26

Steroid-Induced Osteonecrosis Is Associated With Higher Readmission Rates And Costs In Total Hip Arthroplasty: A Matched Cohort Study

Quanjin Cui, United States

SCIENTIFIC PROGRAM • WEDNESDAY, SEPTEMBER 23rd

08:00-10:00 - **SALÓN DE ACTOS**

CUTTING EDGE RESEARCH AND TREATMENT OF OSTEONECROSIS

*Chairs: Quanjun Cui, United States
Lynne Jones, United States*

08:00-08:20

TBC

Lynne Jones, United States

08:20-08:40

Scaffolds for cell/drug delivery for ON – the basics

Pierre Layrolle, France

08:40-09:00

The Basic Science of Joint Preservation in Children and Adolescents

Harry Kim, United States

09:00-09:20

Are there biological non-surgical treatments for ON on the horizon?

Stuart B. Goodman, United States

09:20-09:40

Are arthroplasty procedures and outcomes similar between OA and ON?

Eduardo García-Rey, Spain

09:40-10:00

If I only knew 15-20 years ago, what I know now...

Nobuhiko Sugano, Japan

10:00-11:00 - **SALÓN DE ACTOS**

Panel Discussion

ARCO AND EORS PAST PRESIDENTS

*Chairs: Stuart B. Goodman, United States
Yong-Chan Ha, South Korea*

What research needs to be done to mitigate/ eliminate ON?

Edward Cheng, United States

Quanjun Cui, United States

Lynne Jones, United States

Nobuhiko Sugano, Japan

Dewei Zhao, China

11:00-11:20 - **SALÓN DE ACTOS**

AWARDS AND CLOSING CEREMONY

Stuart B. Goodman, United States

Lynne Jones, United States

Quanjun Cui, United States