



INFO

EXHIBITORS

PROGRAM

POSTERS

2017 OARSI WORLD CONGRESS PROGRAM

Pre-Congress Workshops

WEDNESDAY, APRIL 26TH, 2017

11:00 AM - 8:00 PM

Emperor's Ballroom

OARSI Clinical Trials Course

Historically there have been a number of clinical trials run by both industry and academic investigators, however we have yet to see a novel therapeutic or device successfully attain regulatory approval for disease modification in this important, medically challenging arena. This course is therefore an approach by OARSI to equip investigators and industry sponsors to understand the complexities of running patient-oriented randomized clinical trials in osteoarthritis.

THURSDAY, APRIL 27TH, 2017

8:00 AM - 12:30 PM

Emperor's Ballroom I

Reducing the Burden of Osteoarthritis through Prevention

*Chaired by: Carolyn Emery, PT, PhD
Nigel Arden, MBBS, FRCP, MSc, MD
John Loughlin, PhD*

Speakers to include:

*Tom Andriacchi, PhD
Nigel Arden, MBBS, FRCP, MSc, MD
Heather Vincent, PhD, FACSM
Carolyn Emery, PT, PhD
Ali Guermazi, PhD
Michelle Hall, PhD
Walter Herzog, PhD
David Hunter, PhD, FRACS, MBBS
Roman Krawetz, PhD
David Lloyd, PhD
Ali Mobasheri, BSc, ARCS, MSc, DPhil
May-Arna Risberg, PhD
Jos Runhaar, PhD
Jackie Whittaker, PT, PhD*

9:00 AM - 12:00 PM

Emperor's Ballroom II

Current Perspectives on Pain in Osteoarthritis

*Vania Apkarian, PhD
Anne Marie Malfait, MD, PhD
Terry McNeary, MD
Tuhina Neogi, MD, PhD, FRCPC
Garth Whiteside, PhD, MBA*

10:00 AM - 12:00 PM

Palace Ballroom One

OARSI Young Investigator Workshop

OA Imaging: A Look to the Future with Novel Imaging Approaches

*Simo Saarakkala, PhD
Chunyi Wen, PhD
Han Lim, PhD*

Please note, while the Young Investigator Pre-congress Workshop is organized by Young Investigators, **the workshop is open to all OARSI participants.**



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POSTERS

Welcome and Plenary Session 1 - Hand OA

Moderators: Margreet Kloppenburg, MD, PhD and Tonia Vincent, MD, PhD

1:30 PM - 2:00 PM

Palace Ballroom One

Clinical Update in Hand OA

Ida Haugen, MD, PhD

2:00 PM - 2:30 PM

Is Retinoic Acid a Target in Hand OA?

Helgi Jonsson, MD, PhD

2:30 PM - 2:40 PM

1

RANDOMISED, PLACEBO-CONTROLLED TRIAL TO EVALUATE CLINICAL EFFICACY AND STRUCTURE MODIFYING PROPERTIES OF SUBCUTANEOUS ETANERCEPT IN PATIENTS WITH EROSIIVE INFLAMMATORY HAND OSTEOARTHRITIS

M. Kloppenburg¹, R. Ramonda², W-Y. Kwok¹, K. Bobacz³, D. Elewaut⁴, P. Frallonardo², T. W. Huizinga¹, F. P. Kroon¹, J. Smolen³, B. Vander Cruyssen⁴, R. Wolterbeek¹, L. Punzi², G. Verbruggen⁴, R. Wittoek⁴; ¹Leiden Univ. Med. Ctr., Leiden, Netherlands, ²Univ. of Padua, Padua, Italy, ³Med. Univ. of Vienna, Vienna, Austria, ⁴Ghent Univ. Hosp., Ghent, Belgium

2:40 PM - 2:50 PM

2

FUNCTIONAL CHARACTERISATION OF THE OSTEOARTHRITIS GENETIC RISK LOCUS THAT RESIDES AT THE GENE ALDHIA2, CODING FOR THE RETINOIC ACID SYNTHESIS ENZYME RALDH2, IDENTIFIES rs4646636 AND rs12915901 AS KEY TARGET SNPs

C. Shepherd, D. Zhu, A. J. Skelton, J. Combe, L. N. Reynard, J. Loughlin; Newcastle Univ., Newcastle upon Tyne, United Kingdom

2:50 PM - 3:00 PM

3

A RANDOMISED DOUBLE-BLIND PLACEBO-CONTROLLED CROSSOVER TRIAL OF HUMIRA (ADALIMUMAB) FOR EROSIIVE HAND OSTEOARTHRITIS: THE HUMOR TRIAL

D. Aitken¹, F. Pan¹, L. Laslett¹, N. Bellamy², P. Bird³, I. Haugen⁴, G. Jones¹; ¹Univ. of Tasmania, Hobart, Australia, ²Univ. of Queensland Sch. of Med. and Royal Brisbane and Women's Hosp., Brisbane, Australia, ³Univ. of NSW, Sydney, Australia, ⁴Dept. of Rheumatology, Diakonhjemmet Hosp., Oslo, Norway

3:00 PM - 3:30 PM

Pre-Function I

Break

Plenary Session 2 - Nine Highest Rated Abstracts by Young Investigators

Moderated by: Jeroen, Geurts, PhD and Ali Mobasheri, BSc, ARCS, MSc, DPhil

3:30 PM - 5:00 PM

Palace Ballroom One

3:30 PM - 3:40 PM

4

THE ROLE OF THE GUT MICROBIOME IN OSTEOARTHRITIS AND JOINT PAIN

C. G. Boer, D. Radjabzadeh, A. G. Uitterlinden, R. Kraaij, J. B. van Meurs; Erasmus Med. Ctr., Rotterdam, Netherlands

3:40 PM - 3:50 PM

5

MULTIPLE INJECTIONS OF PLATELET RICH PLASMA RELEASATE REDUCE PAIN AND SYNOVIAL THICKENING IN A MICE OSTEOARTHRITIS MODEL

S. Khatab, G. M. van Buul, P. K. Bos, J. A. Verhaar, G. J. van Osch; Erasmus Med. Ctr. Rotterdam, Rotterdam, Netherlands



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3:50 PM – 4:00 PM

6

PREBIOTIC MANIPULATION OF THE GUT MICROBIOME WITH OLIGOFRUCTOSE CONFERS PROTECTION AGAINST THE OSTEOARTHRITIS OF OBESITY

E. Schott, C. Farnsworth, A. Grier, S. Soniwal, M. Doolittle, J. Zhang, R. Bell, J. P. Ket, C. Ackert-Bicknell, S. Gill, R. Mooney, M. Zuscik; Univ. of Rochester, Rochester, NY

4:00 PM – 4:10 PM

7

PREDICTION OF RISK FOR RADIOGRAPHIC HIP OSTEOARTHRITIS IN SUBJECTS WITH EARLY OSTEOARTHRITIS OF HIP OR KNEE

W. P. Gielis¹, H. H. Weinans^{2,3}, W. E. van Spil⁴, R. Agricola⁵, T. F. Cootes⁶, P. A. de Jong⁷, C. Lindner⁶; ¹UMC Utrecht, dept. Orthopedics, Utrecht, Netherlands, ²UMC Utrecht, dept. Orthopedics, Rheumatology & Clinical Immunology, Utrecht, Netherlands, ³Delft Univ. of Technology, dept. Biomechanical Engineering, Delft, Netherlands, ⁴UMC Utrecht, dept. Rheumatology & Clinical Immunology, Utrecht, Netherlands, ⁵Erasmus Univ. Med. Ctr., dept. of Orthopedics, Rotterdam, Netherlands, ⁶Ctr. for Imaging Sci., The Univ. of Manchester, Manchester, United Kingdom, ⁷UMC Utrecht, Dept. of Radiology and Nuclear Med., Utrecht, Netherlands

4:10 PM – 4:20 PM

8

CHONDROCYTE PTHIR ANTI-HYPERTROPHIC SIGNALING IS ESSENTIAL FOR ARTICULAR CARTILAGE MAINTENANCE AND PROTECTION POST TRAUMA

F. Kamal, E. M. Schott, E. L. Carlson, M. El-Quadi, H. K. Le Bleu, M. J. Hilton, J. H. Jonason, M. J. Zuscik; Univ. of Rochester, rochester, NY

4:20 PM – 4:30 PM

9

KNOCKING OUT OR PHARMACEUTICAL INHIBITION OF FATTY ACID BINDING PROTEIN 4 (FABP-4) ALLEVIATES OSTEOARTHRITIS INDUCED BY A VERY HIGH FAT DIET IN MOUSE

C. Zhang^{1,2}, C. Yan^{1,3}, A. Xu¹, B. Chan¹, K. Chiu¹; ¹The Univ. of Hong Kong, Hong Kong, China, ²The First Affiliated Hosp. of Fujian Med. Univ., Fujian, China, ³The Univ. of Hong Kong-Shenzhen Hosp., Shenzhen, China

4:30 PM – 4:40 PM

10

SYSTEMIC ANTAGONISM OF TOLL-LIKE RECEPTOR 4 REDUCES POST-TRAUMATIC OSTEOARTHRITIS IN A MURINE MODEL

K. S. Santangelo; Colorado State Univ., Fort Collins, CO

4:40 PM – 4:50 PM

11

EXERCISE-INDUCED PAIN REDUCTIONS IN KNEE OSTEOARTHRITIS ARE ASSOCIATED WITH CHANGES IN MUSCLE PERFUSION QUANTIFIED BY DYNAMIC CONTRAST ENHANCED MAGNETIC RESONANCE IMAGING: EXPLORATORY OUTCOME ANALYSIS FROM A RANDOMIZED CONTROLLED TRIAL

E. Bandak¹, M. Boesen^{1,2}, H. Bliddal¹, R. G. Riis^{2,3}, L. Klokke¹, C. Bartholdy¹, J. D. Nybing², M. Henriksen^{1,4}; ¹The Parker Inst., Copenhagen Univ. Hosp., Bispebjerg and Frederiksberg Hosp., Copenhagen F, Denmark, ²Dept. of Radiology, Copenhagen Univ. Hosp., Bispebjerg and Frederiksberg Hosp., Copenhagen F, Denmark, ³Dept. of Radiology, Zealand Univ. Hosp., Holbaek, Denmark, ⁴Dept. of physical and occupational therapy, Copenhagen Univ. Hosp., Bispebjerg & Frederiksberg, Copenhagen F, Denmark

4:50 PM – 5:00 PM

12

ZCCHC6 AND ZCCHC11 EXHIBIT CELL AUTONOMOUS EFFECTS ON BONE REMODELING IN MICE

G. Sondag, S. Haynie, F. F. Safadi, T. M. Haqqi; Northeast Ohio Med. Univ., Rootstown, OH

5:00 PM – 5:15 PM

Recognition of Young Investigators

5:15 PM – 5:45 PM

Break

Pre-Function I



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Plenary Session 3 – Opening Ceremony / Award Presentations

Moderated by: Jeffrey Katz, MD, MSc and John Loughlin, PhD

5:45 PM – 6:10 PM

Palace Ballroom One

Presidential Address

6:10 PM – 6:20 PM

Recognition of Lifetime Achievement Award Winner

Stefan Lohmander, MD, PhD

6:20 PM – 6:40 PM

Recognition of Basic Science Award Winner

Osteoarthritis, From the Chondrocyte to the Mitochondria

Francisco Blanco, MD, PhD

6:40 PM – 7:00 PM

Recognition of Clinical Science Award Winner

Inflammation in Osteoarthritis: Why Does OA Occur in Non-Weight Bearing Joints?

Francis Berenbaum, MD, PhD

Plenary Session 4 – Keynote Address

Moderated by: Richard Loeser, MD and Virginia Kraus, MD, PhD

7:00 PM – 7:30 PM

Palace Ballroom One

All You Need to Know About the Microbiome!

Lindsay Hall, BSc, PhD

7:30 PM – 9:00 PM

Augustus Ballroom

Opening Reception with Exhibitors

FRIDAY APRIL 28TH, 2017

7:30 AM – 8:30 AM

Emperor's Ballroom I

Breakfast Workshop A

OA for Beginners

Marc Hochberg MD, PhD

Emperor's Ballroom II

Breakfast Workshop B

In vivo Models of Cartilage Repair and Chondrogenesis

Francesco Dell'Accio, MD, PhD

Augustus Ballroom

Breakfast Poster Tour 1

Osteoarthritis Therapy

Breakfast Poster Tour 2

Cartilage & Bone

Breakfast Poster Tour 3

Imaging & Biomarkers

Breakfast Poster Tour 4

Biomechanics

Sponsored by
Boston Imaging
Core Lab



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Concurrent Session 1 – Cartilage Biology

Moderated by: Miguel Otero, PhD and Peter van der Kraan, PhD

8:45 AM – 9:15 AM

Palace Ballroom One

Engineering TIMPs for OA Therapy

Linda Troeberg, PhD

9:15 AM – 9:25 AM

13

POSTNATAL INFLUENCE OF THE CILIOUME IN THE JOINT

C. R. Coveney, I. Collins, M. McFie, A. Chanalaris, T. L. Vincent, **A. K. Wann**; Kennedy Inst. Univ. of Oxford, Oxford, United Kingdom

9:25 AM – 9:35 AM

14

CONNECTIVE TISSUE GROWTH FACTOR DETERMINES CARTILAGE THICKNESS AND OSTEOARTHRITIC RISK BY CONTROLLING ACTIVATION OF LATENT TRANSFORMING GROWTH FACTOR BETA IN CARTILAGE

X. Tang, J. Zarebska, M. Curtinha, B. Stott, **T. Vincent**; Univ. of Oxford, Oxford, United Kingdom

9:35 AM – 9:45 AM

15

14-3-3 EPSILON IS A NOVEL COMPONENT OF PGRN/TNFR2 COMPLEX TO MEDIATE PGRN'S PROTECTIVE ROLE IN CHONDROCYTES AND OSTEOARTHRITIS

W. Fu, Y-s. Yi, C-j. Liu; New York Univ. Med. Ctr., New York, NY

9:45 AM – 9:55 AM

16

THE ROLE OF TRANSIENT RECEPTOR POTENTIAL CATION CHANNEL TRPC6 ACTIVITY IN CXCR2-MEDIATED CHONDROCYTE PHENOTYPIC STABILITY

J. Sherwood¹, J. Bertrand², F. Dell'Accio³, T. Pap¹; ¹Inst. for Experimental Musculoskeletal Med., Univ. Hosp. Muenster, Muenster, Germany, ²Dept. of Orthopedic Surgery, Otto-von-Guericke Univ. of Magdeburg, Magdeburg, Germany, ³William Harvey Res. Insitute, Queen Mary Univ. of London, London, United Kingdom

9:55 AM – 10:05 AM

17

ROLE OF SUMOYLATION IN PRIMARY OSTEOARTHRITIS PATHOGENESIS

A. Moreau^{1,2}, M. Taheri¹, M. Pellicelli^{1,3}, C. Picard^{1,4}, J-F. Lavoie^{1,5}, P. Lavigne^{6,7}, K. F. Gorman¹, A. Franco¹; ¹Sainte-Justine Univ. Hosp. Res. Ctr., Montreal, QC, Canada, ²Faculty of Dentistry and Faculty of Med., Université de Montréal, Montreal, QC, Canada, ³Shriners Hosp. for Children, McGill Univ., Montreal, QC, Canada, ⁴McGill Univ., Montreal, QC, Canada, ⁵Biomomentum Inc., Montreal, QC, Canada, ⁶Orthopedic Div., Maisonneuve-Rosmeont Hosp., Montreal, QC, Canada, ⁷Faculty of Med., Université de Montréal, Montreal, QC, Canada

10:05 AM – 10:15 AM

18

THERAPEUTIC TARGETING OF GPCR GBETAGAMMA-GRK2 SIGNALING IN OSTEOARTHRITIS

E. L. Carlson, E. M. Schott, M. El-Quadi, H. K. Le Bleu, J. P. Ketz, R. Elbarbary, M. J. Zuscik, **F. Kamal**; Univ. of Rochester, Rochester, NY

Concurrent Session 2 – Biomechanics

Moderated by: Stephen Messier, PhD and Dieuwke Schiphof, PhD

8:45 AM – 9:15 AM

Palace Ballroom Three

Biomechanical Plasticity in Locomotion with Age, Obesity and OAs

Paul deVita, PhD

9:15 AM – 9:25 AM

19

FEATURES OF GAIT MECHANICS AND BIOLOGY THAT PREDICT CARTILAGE THICKNESS CHANGE IN A POPULATION AT RISK FOR AGE-RELATED KNEE OSTEOARTHRITIS

E. F. Chehab^{1,2}, J. L. Asay^{1,2}, J. Favre³, T. P. Andriacchi^{1,2}; ¹Stanford Univ., Stanford, CA, ²VA Hlth.Care System, Palo Alto, CA, ³Ctr. Hosp.ier Univ.ire Vaudois, Lausanne, Switzerland



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9:25 AM – 9:35 AM

20

DAILY CUMULATIVE HIP LOAD IS ASSOCIATED WITH RADIOGRAPHIC PROGRESSION OF SECONDARY HIP OSTEOARTHRITIS

H. Tateuchi¹, Y. Koyama¹, H. Akiyama², K. Goto¹, K. So¹, Y. Kuroda¹, N. Ichihashi¹; ¹Kyoto Univ., Kyoto, Japan, ²Gifu Univ., Gifu, Japan

9:35 AM – 9:45 AM

21

KNEE KINETICS DURING WALKING CONTINUE TO CHANGE AT EIGHT YEARS AFTER ACL RECONSTRUCTION

J. C. Erhart-Hledik, C. R. Chu, J. L. Asay, T. P. Andriacchi; Stanford Univ., Stanford, CA

9:45 AM – 9:55 AM

22

CHANGES IN PROXIMAL TIBIAL BONE MINERAL DENSITY REFLECT REDISTRIBUTION OF KNEE LOADS WITH USE OF A LOAD REDUCING INTERVENTION OVER 24 WEEKS

M. Pasha¹, C. Ferrigno¹, R. H. Lidtke¹, M. A. Wimmer¹, J. A. Block¹, L. E. Thorp², **N. Shakoor**¹; ¹Rush Univ. Med. Ctr., Chicago, IL, ²Univ. of Illinois Chicago, Chicago, IL

9:55 AM – 10:05 AM

23

WEARABLE SENSORS TO PREDICT RESPONSE TO A HIP STRENGTHENING EXERCISE INTERVENTION IN PATIENTS WITH KNEE OSTEOARTHRITIS

D. Kobsar, S. T. Osis, J. E. Boyd, B. A. Hettinga, R. Ferber; Univ. of Calgary, Calgary, AB, Canada

10:05 AM – 10:15 AM

24

PATIENT-REPORTED OUTCOMES INTERACT WITH MUSCLE CAPACITY TO PREDICT TWO-YEAR STAIR ASCENT PERFORMANCE IN WOMEN WITH CLINICAL KNEE OSTEOARTHRITIS

N. M. Brisson¹, P. W. Stratford¹, **M. R. Maly**^{1,2}; ¹McMaster Univ., Hamilton, ON, Canada, ²Univ. of Waterloo, Waterloo, ON, Canada

10:15 AM – 10:45 AM

Break

Augustus Ballroom

Plenary Session 5 – Towards Cartilage Repair

Moderated by: Jerome Guicheux, PhD, DSc and Rita Kandel, MD, FRCPC

10:45 AM – 11:15 AM

Designer Scaffolds for Cartilage Repair

Palace Ballroom One

Molly Stevens, PhD

Rapid Fire Poster Tasters

11:15 AM – 11:18 AM

25

HYALURONIC ACID HYDROGEL FUNCTIONALIZED WITH SELF-ASSEMBLED MICELLES OF AMPHIPHILIC PEGYLATED KARTOGENIN FOR THE TREATMENT OF OSTEOARTHRITIS

M-L. Kang, J. Se-Yeong, **G-I. Im**; Dongguk Univ. Ilsan Hosp., Goyang, Korea, Republic of

11:18 AM – 11:21 AM

26

SI-HPMC/SI-CHITOSAN HYBRID HYDROGEL FOR CARTILAGE REGENERATIVE MEDICINE: FROM IN VITRO TO IN VIVO ASSESSMENTS IN NUDE MICE AND CANINE MODEL OF OSTEOCHONDRAL DEFECTS

C. Boyer^{1,2}, J. Lesoeur^{1,2}, S. Sourice^{1,2}, C. Vinatier^{1,2}, G. Réthoré^{1,2}, P. Barreau^{1,3}, M. Fusellier^{1,3}, O. Geffroy^{1,3}, P. Weiss^{1,2}, O. Gauthier^{1,3}, J. Guicheux^{1,2}; ¹INSERM UI229 - RMeS, Team STEP Nantes, France, ²Univ. of Nantes - UFR Odontology, Nantes, France, ³ONIRIS, Coll. of Vet. Med., Clinical Sci. Dept., Nantes, France



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11:21 AM – 11:24 AM

27

THE EFFECT OF RHOA/ROCK SIGNALING INHIBITION ON THE DEVELOPMENT OF hMSC-BASED CHONDROGENIC TISSUE

K.-c. Wang¹, E. Kwan¹, K. Aris¹, T. T. Egelhoff², A. I. Caplan¹, J. F. Welter¹, H. Baskaran¹; ¹Case Western Reserve Univ., Cleveland, OH, ²Cleveland Clinic, Cleveland, OH

11:24 AM – 11:27 AM

28

IN VITRO CELL SURFACE MARKERS ARE INSUFFICIENT TO IDENTIFY IN VIVO/IN SITU MULTIPOTENT SYNOVIAL MESENCHYMAL STEM CELLS ISOLATED FROM NORMAL OR OSTEOARTHRITIC KNEES

N. Aljezani, A. Affan, P. Railton, J. Powell, R. Krawetz; Univ. of Calgary, Calgary, AB, Canada

11:27 AM – 11:30 AM

29

NEW CHIMERIC PEPTIDE REGULATING INSULIN-LIKE GROWTH FACTOR 1 REGENERATIVE EFFECT FOR THERAPY IN EARLY STAGE OSTEOARTHRITIS

R. Paolini, C. Vetu; Regulaxis, Romainville, France

11:30 AM – 11:33 AM

30

RELATION OF PAIN SENSITIZATION TO DEVELOPMENT OF CONSTANT, PERSISTENT PAIN IN KNEE OSTEOARTHRITIS: THE MULTICENTER OSTEOARTHRITIS STUDY

T. Neogi¹, G. Hawker², C. Brown¹, L. E. Cora³, N. Michael⁴, L. A. Frey Law⁵; ¹Boston Univ. Sch. of Med., Boston, MA, ²Univ. of Toronto, Toronto, ON, Canada, ³Univ. of Alabama at Birmingham, Birmingham, AL, ⁴Univ. of California at San Francisco, San Francisco, CA, ⁵Univ. of Iowa at Iowa City, Iowa City, IA

11:33 AM – 11:36 AM

31

KNEE OSTEOARTHRITIS AND THE RISK OF PREMATURE MORTALITY IN THE COMMUNITY: AN INTERNATIONAL INDIVIDUAL PATIENT LEVEL META-ANALYSIS IN 9889 SUBJECTS

K. M. Leyland¹, L. S. Gates^{2,1}, M. T. Sanchez-Santos¹, D. Prieto Alhambra¹, A. Judge¹, G. Collins¹, R. Cleveland³, D. Felson⁴, J. M. Jordan³, L. F. Callahan³, M. Nevitt⁵, F. Saberi Hosnijeh⁶, J. B. van Meurs⁶, G. Jones⁷, J. Newton¹, M. Batt⁸, D. Altman¹, C. Cooper^{1,2}, N. Arden^{1,2}, P-C. Committee⁹; ¹Univ. of Oxford, Oxford, United Kingdom, ²Univ. of Southampton, Southampton, United Kingdom, ³Univ. of North Carolina, Chapel Hill, NC, ⁴Boston Univ. Sch. of Med., Boston, MA, ⁵Univ. of California, San Francisco, CA, ⁶Erasmus Univ. Med. Ctr., Rotterdam, Netherlands, ⁷Univ. of Tasmania, Tasmania, Australia, ⁸Univ. of Nottingham, Nottingham, United Kingdom, ⁹Univ. of Sydney, Sydney, Australia

11:36 AM – 11:39 AM

32

FOXO TRANSCRIPTION FACTORS ARE ESSENTIAL FOR INTERVERTEBRAL DISC MATURATION AND MAINTENANCE

O. Alvarez-Garcia¹, T. Matsuzaki¹, M. Olmer¹, K. Masuda², M. Lotz¹; ¹The Scripps Res. Inst., La Jolla, CA, ²Univ. of California, San Diego, CA

11:39 AM – 11:42 AM

33

IDENTIFICATION OF MICRORNA-181A-5P AND MICRORNA-4454 AS MEDIATORS OF FACET CARTILAGE DEGENERATION THROUGH THE ACTIVATION OF ZINC FINGER PROTEIN 440 MEDIATED NF-KB SIGNALING PATHWAY AND POTENTIAL CIRCULATING BIOMARKERS FOR DETECTING THE SEVERITY OF FACET JOINT OSTEOARTHRITIS IN BLOOD

A. Nakamura^{1,2}, Y. Rampersaud^{3,2}, A. Sharma^{1,2}, S. J. Lewis^{3,2}, B. Wu^{1,2}, P. Datta^{1,2}, K. Sundararajan^{3,2}, E. Matip¹, H. Endisha^{1,2}, S. Nakamura^{1,2}, B. Pal^{1,2}, K. Perry^{3,2}, E. Prifti^{3,2}, A. Weston^{3,2}, D. Antflek^{3,2}, L. Montoya^{3,2}, K. Zetazate^{3,2}, E. Rossomacha^{1,2}, J. Rockel^{1,2}, I. Jurisica⁴, M. Kapoor^{1,5}; ¹Dept. of Genetics and Dev., Krembil Res. Inst., Univ. Hlth.Network, Toronto, ON, Canada, ²Arthritis Program, Univ. Hlth.Network, Toronto, ON, Canada, ³Spinal Program, Krembil NeuroSci. Ctr., Toronto Western Hosp., Univ. Hlth.Network, Univ. of Toronto, Toronto, ON, Canada, ⁴Princess Margaret Cancer Ctr., Univ. Hlth.Network and Dept.s of Med. Biophysics and Computer Sci., Univ. of Toronto, Toronto, ON, Canada, ⁵Dept. of Surgery and Dept. of Lab. Med. and Pathobiology, Univ. of Toronto, Toronto, ON, Canada



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11:42 AM - 11:45 AM

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WOGONIN EXERTS ANTI-INFLAMMATORY EFFECT BY DISRUPTING KEAP-1/NRF2 INTERACTIONS AND ACTIVATING NRF2 IN HUMAN OA CHONDROCYTES

N. M. Khan, M. Y. Ansari, S. Haynie, T. M. Haqqi; Northeast Ohio Med. Univ., Rootstown, OH

11:45 AM - 11:48 AM

35

DIFFERENTIATING PAIN PHENOTYPES IN KNEE OSTEOARTHRITIS: A 10-YEAR PROSPECTIVE STUDY

F. Pan¹, J. Tian¹, D. Aitken¹, F. Cicuttini², C. Ding¹, G. Jones¹; ¹Menzies Inst. for Med. Res., Univ. OF TASMANIA, Hobart, Australia, ²Dept. of Epidemiology and Preventive Med., Monash Univ. Med. Sch., Melbourne, Australia

11:48 AM - 11:51 AM

36

ELEVATED LEVELS OF CRPM, AN INFLAMMATORY BIOMARKER CORRELATING WITH DISEASE ACTIVITY IN RA, ARE PROGNOSTIC OF RADIOGRAPHIC KNEE OA

A-C. Bay-Jensen¹, A. Bihlet¹, I. Byrjalsen¹, J. Andersen¹, Y. He¹, A. Siebuhr¹, C. Thudium¹, H. Guehring², M. Michaelis², C. Ladel², B. Juel Riis¹, C. Christiansen¹, M. A. Karsdal¹; ¹Nordic BioSci. A/S, Herlev, Denmark, ²Merck KGaA, Darmstadt, Germany

11:51 AM - 11:54 AM

37

OSTEOPHYTE FORMATION ON MEDIAL WALL OF THE INTERCONDYLAR NOTCH OF FEMUR IS AN EARLY SIGN OF OSTEOARTHRITIC KNEE DEVELOPMENT USING OSTEOARTHRITIS INITIATIVE DATA

T. SASHO, R. Akagi, M. Tahara, J. Katsuragi, R. Nakagawa, T. Enomoto, S. Yusuke, S. Kimura, S. Yamaguchi, A. Watanabe; Chiba Univ., Chiba, Japan

11:54 AM - 11:57 AM

38

AMBULATORY AND HOSPITAL CARE FOR OSTEOARTHRITIS AND OTHER MUSCULOSKELETAL DISORDERS IN ONTARIO, CANADA

Y. R. Rampersaud¹, **J. D. Power**², A. V. Perruccio³, M. Paterson⁴, C. Veillette¹, E. M. Badley³, N. N. Mahomed¹; ¹Toronto Western Hosp. and Dept. of Surgery, Univ. of Toronto, Toronto, ON, Canada, ²Arthritis Program, Krembil Res. Inst., Univ. Hlth.Network, Toronto, ON, Canada, ³Krembil Res. Inst., and Dalla Lana Sch. of Publ. Hlth., Univ. of Toronto, Toronto, ON, Canada, ⁴Inst. for Clinical Evaluative Sci., Toronto, ON, Canada

11:57 AM - 12:00 PM

39

DEVELOPMENT OF QUANTITATIVE IN VIVO IMAGING OF ARTICULAR CARTILAGE DEGRADATION IN MURINE OSTEOARTHRITIS

P. Das Neves Borges, M. M. Fowkes, P. E. Brennan, T. L. Vincent, N. H. Lim; Univ. of Oxford, Oxford, United Kingdom

12:00 PM - 1:00 PM

Augustus Ballroom

Poster Session 1

Sponsored by
Astellas

1:00 PM - 2:30 PM

Break

1:00 PM - 2:30 PM

Emperor's Ballroom

Satellite Lunch Symposium

Disease Modification in Knee Osteoarthritis: Potential for a First in Class Small Molecule Wnt Inhibitor SM04690

Sponsored by Samumed

Plenary Session 6 - Improving Outcome in OA Studies

Moderated by: Christopher Little, PhD and Tuhina Neogi, MD, PhD, FRCPC

2:30 PM - 3:00 PM

Palace Ballroom One

Meta-research: A Bird's Eye View of OA

Robin Christensen, PhD



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POSTERS

3:00 PM - 3:30 PM

Enhancing the Value of Pre-clinical Studies

Malcolm Macleod, MD, PhD

3:30 PM - 3:40 PM

40

STATISTICAL SIMULATION USING DATA FROM THE FOUNDATION FOR THE NATIONAL INSTITUTE OF HEALTH/ OSTEOARTHRITIS INITIATIVE BIOMARKERS CONSORTIUM TO EVALUATE THE CLINICAL UTILITY OF PROGNOSTIC KNEE OSTEOARTHRITIS BIOMARKERS IN DESIGNING A KNEE OSTEOARTHRITIS CLINICAL TRIAL

S. Feng, Z. Liu, F. Hong, J. Medema, R. Kamath, M. Levesque; AbbVie Inc., North Chicago, IL

3:40 PM - 3:50 PM

41

ANIMAL MODEL-SPECIFIC ASSOCIATIONS BETWEEN OSTEOARTHRITIS PATHOLOGY AND PAIN - PHENOTYPE DOES MATTER

S. Zaki; Univ. of Sydney, St Leonards, Australia

3:50 PM - 4:00 PM

42

TWO YEAR OUTCOME FROM TWO PARALLEL RANDOMIZED TRIALS ON TOTAL KNEE REPLACEMENT AND NON-SURGICAL TREATMENT OF KNEE OSTEOARTHRITIS

S. T. Skou^{1,2}, E. M. Roos³, M. B. Laursen⁴, M. S. Rathleff⁵, L. Arendt-Nielsen⁵, S. Rasmussen⁴, O. H. Simonsen⁴; ¹Res. Unit for Musculoskeletal Function and Physiotherapy, Univ. of Southern Denmark and Dept. of Physiotherapy and Occupational Therapy, Næstved-Slagelse-Ringsted Hosp., Odense, Denmark, ²Orthopaedic Surgery Res. Unit, Aalborg Univ. Hosp. and Ctr. for Sensory-Motor Interaction (SMI), Aalborg Univ., Aalborg, Denmark, ³Res. Unit for Musculoskeletal Function and Physiotherapy, Univ. of Southern Denmark, Odense, Denmark, ⁴Orthopaedic Surgery Res. Unit, Aalborg Univ. Hosp. and Ctr. for Sensory-Motor Interaction (SMI), Aalborg Univ. and Dept. of Clinical Med., Aalborg Univ., Aalborg, Denmark, ⁵Ctr. for Sensory-Motor Interaction (SMI), Aalborg Univ., Aalborg, Denmark

4:00 PM - 5:00 PM

Poster Session 2

Augustus Ballroom

Concurrent Session 3 - Genetics and Epigenetics

Moderated by: Ingrid Meulenbelt, PhD and Mandy Peffers, BSc, MPhil, PhD, BVetMed, FRCVS

5:00 PM - 5:30 PM

Molecular Targets Arising from GWAS

Palace Ballroom One

Rik Lories, MD, PhD

5:30 PM - 5:40 PM

43

NOVEL TRANSLATIONAL DISCOVERY STUDY OF GENES AND SNPS ASSOCIATED WITH OSTEOARTHRITIS PAIN

R. E. Miller¹, D. Syx², S. Ishihara¹, R. J. Miller³, A. M. Valdes⁴, A-M. Malfait¹; ¹Rush Univ. Med. Ctr., Chicago, IL, ²Ghent Univ., Ghent, Belgium, ³Northwestern Univ., Chicago, IL, ⁴Univ. of Nottingham, Nottingham, United Kingdom

5:40 PM - 5:50 PM

44

NATIONAL CLINICAL AUDIT DATA DECODES THE GENETIC ARCHITECTURE OF DEVELOPMENTAL DYSPLASIA OF THE HIP

K. Hatzikotoulas¹, A. Roposch², K. M. Shah³, M. J. Clark³, S. Bratherton³, V. Limbani⁴, K. Warsame², M. Ratnayake⁵, M. Tselepi⁵, J. Schwartzentruber¹, J. Steinberg¹, D. DH Case Control Consortium², J. Loughlin⁵, D. M. Eastwood⁴, E. Zeggini¹, **J. M. Wilkinson**³; ¹Wellcome Trust Sanger Inst., Cambridge, United Kingdom, ²Univ. Coll. London, London, United Kingdom, ³Univ. of Sheffield, Sheffield, United Kingdom, ⁴Royal Natl. Orthopaedic Hosp., Stanmore, United Kingdom, ⁵Newcastle Univ., Newcastle, United Kingdom



INFO

EXHIBITORS

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5:50 PM – 6:00 PM

45

WHOLE GENOME SEQUENCING FINDS RARE HIGH-RISK GENOTYPES FOR HIP OSTEOARTHRITIS IN THE COMP AND CHADL GENES

T. Ingvarsson¹, U. Styrkarsdottir², H. Helgason², A. Sigudsson², G. Norddahl², A. Agustsdottir², L. Reynard³, A. Garcia⁴, G. Halldorsson², A. Jonasdottir², A. Magnusdottir², A. Oddson², G. Sulem², F. Zinc², G. Sveinbjornsson², A. Helgason^{2,5}, H. Johannsdottir², A. Helgadottir², T. Rafnar², I. Almdahl⁶, A. Brækhus^{7,8}, T. Fladby^{9,10}, G. Selbæk^{11,12}, F. Hosseinpahan¹³, F. Azizi¹⁴, J. Koh¹⁵, N. L. S. Tang¹⁶, M. Daneshpour¹⁷, J. Mayordomo¹⁸, C. Welt¹⁹, N. Samani²⁰, P. Braund²¹, L. Kiemeny²², S. Lohmander²³, C. Christiansen²⁴, O. A. Andreassen²⁵, O. Magnusson², arcOGEN consortium, G. Masson², G. Masson², A. Kong², A. Kong², I. Jonsdottir^{2,26}, D. Gudbjartsson², D. Gudbjartsson², P. Sulem², H. Jonsson²⁷, J. Loughlin⁴, U. Thorsteinsdottir², K. Stefansson², ¹Fsa Hosp. /Univ. of Iceland, Reykjavik, Iceland, ²Decode Genetics, Reykjavik, Iceland, ³Musculoskeletal Res. Group, Inst. of Cellular Med., Newcastle Univ., Newcastle-upon-Tyne, United Kingdom, ⁴Musculoskeletal Res. Group, Inst. of Cellular Med., Newcastle Univ., Newcastle-upon-Tyne, United Kingdom, ⁵Dept. of Anthropology, University of Iceland, Iceland, ⁶Dept. of Neurology, Akershus University Hospital, Lørenskog, Norway, ⁷Norwegian Natl. Advisory Unit on Ageing and Hlth., Vestfold Hospital Trust, Tønsberg, Norway, ⁸Dept. of Geriatric Med., Oslo University Hospital, Oslo, Norway, ⁹Dept. of Neurology, Akershus University Hospital, Lørenskog, Norway, ¹⁰Inst. of Clinical Med., Univ. of Oslo, Oslo, Norway, ¹¹Norwegian Natl. Advisory Unit on Ageing and Hlth., Vestfold Hosp. Trust, Tønsberg, Norway, ¹²Faculty of Med., Univ. of Oslo, Oslo, Norway, ¹³Obesity Res. Ctr., Res. Inst. for Endocrine Sci., Shahid Beheshti Univ. of Med. Sci., Tehran, Iran, Islamic Republic of, ¹⁴Endocrine Res. Ctr., Res. Inst. for Endocrine Sci., Shahid Beheshti Univ. of Med. Sci., Tehran, Iran, Islamic Republic of, ¹⁵Div. of Endocrinology and Metabolism, Asan Med. Ctr., Univ. of Ulsan Coll. of Med., Seoul, Korea, Democratic People's Republic of, ¹⁶Dept. of Chemical and Lab. for Genetics of Disease Susceptibility, Li Ka Shing Inst. of Hlth.Sci., Faculty of Med., The Chinese Univ. of Hong Kong, Hong Kong, China, ¹⁷Cellular and Molecular Endocrine Res. Ctr., Re

6:00 PM – 6:10 PM

46

INCREASED EXPRESSION OF CCN4/WISPI IN OSTEOARTHRITIC ARTICULAR CARTILAGE IS EPIGENETICALLY REGULATED AND DISRUPTS CARTILAGE HOMEOSTASIS

M. H. van den Bosch¹, Y. F. Ramos², W. den Hollander², N. Bömer², R. G. Nelissen², J. V. Bovée², A. B. Blom¹, I. Meulenbelt², ¹Radboud Univ. Med. center, Nijmegen, Netherlands, ²Leiden Univ. Med. Ctr., Leiden, Netherlands

6:10 PM – 6:20 PM

47

IDENTIFICATION OF FIVE NOVEL OSTEOARTHRITIS SUSCEPTIBILITY LOCI THROUGH THE UK BIOBANK RESOURCE

E. Zengini^{1,2}, K. Hatzikotoulas³, I. Tachmazidou³, S. Hackinger³, U. Styrkarsdottir⁴, D. Suveges³, B. Killian³, A. Gilly³, T. Ingvarsson^{5,6}, H. Jonsson^{6,7}, G. Babis⁸, U. Thorsteinsdottir^{4,6}, K. Stefansson^{4,6}, J. M. Wilkinson¹, E. Zeggini³, ¹Univ. of Sheffield, Sheffield, United Kingdom, ²Dromokaiteio Psychiatric Hosp. of Athens, Athens, Greece, ³Wellcome Trust Sanger Inst., Hinxton, United Kingdom, ⁴deCODE genetics, Reykjavik, Iceland, ⁵Akureyri Hosp., Akureyri, Iceland, ⁶Univ. of Iceland, Reykjavik, Iceland, ⁷The Natl. Univ. Hosp. of Iceland, Reykjavik, Iceland, ⁸Univ. of Athens, Athens, Greece

6:20 PM – 6:30 PM

48

RAPID KNEE OA PROGRESSION IS ASSOCIATED WITH DECELERATED PERIPHERAL BLOOD DNA METHYLATION AGING: DATA FROM THE OSTEOARTHRITIS INITIATIVE

M. Jeffries^{1,2}, **A. Rivas**¹, ¹Univ. of Oklahoma, Oklahoma City, OK, ²Oklahoma Med. Res. Fndn., Oklahoma City, OK

Concurrent Session 4 – Inflammation (Clinical)

Moderated by: Virginia Kraus, MD, PhD and Carla Scanzello, MD, PhD

5:00 PM – 5:30 PM

Palace Ballroom Three

Hydroxychloroquine in Hand OA; Results of the UK HERO Trial

Sarah Kingsbury, PhD



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5:30 PM – 5:40 PM

49

EFFECT OF ETANERCEPT ON SYNOVITIS AND BONE MARROW LESIONS IN EROSIIVE HAND OSTEOARTHRITIS

F. P. Kroon¹, R. Wittoek², G. Verbruggen², I. K. Haugen³, T. W. Huizinga¹, M. Kloppenburg¹; ¹Leiden Univ. Med. Ctr., Leiden, Netherlands, ²Ghent Univ. Hosp., Ghent, Belgium, ³Diakonhjemmet Hosp., Oslo, Norway

5:40 PM – 5:50 PM

50

STRUCTURAL EFFECTS OF INTRA-ARTICULAR TGF- β 1 IN MODERATE TO ADVANCED KNEE OSTEOARTHRITIS: MRI-BASED ASSESSMENT IN RANDOMIZED CONTROLLED TRIAL WITH A FOCUS ON CARTILAGE AND INFLAMMATORY MARKERS

A. Guermazi¹, G. Kalsi², J. Niu³, M. D. Crema¹, O. Copeland², A. Orlando², M. Noh², F. W. Roemer⁴; ¹Boston Univ. Sch. of Med., Boston, MA, ²TissueGene, Rockville, MD, ³Baylor Coll. of Med., Houston, TX, ⁴Univ. of Erlangen-Nuremberg, Erlangen, Germany

5:50 PM – 6:00 PM

51

IDENTIFICATION OF SYNOVIAL EXPRESSION PATTERNS THAT ARE ASSOCIATED WITH PAIN AND PROGRESSION OF JOINT DAMAGE IN EARLY OSTEOARTHRITIS

A. B. Blom¹, M. H. van den Bosch¹, H. Cats², F. van den Hoogen¹, F. P. Lafeber³, W. B. van den Berg¹, P. L. van Lent¹, P. M. van der Kraan¹; ¹Radboud Univ. Med. Ctr., Nijmegen, Netherlands, ²Sint Maartensclinic, Nijmegen, Netherlands, ³Univ. Med. Ctr., Utrecht, Netherlands

6:00 PM – 6:10 PM

52

SYNOVITIS OF KNEE JOINT FAT PADS IS CORRELATED WITH INFLAMMATORY SYNOVIAL CYTOKINE PROFILE AND MAY HAVE A POTENTIAL ROLE IN THE DEVELOPMENT OF POSTTRAUMATIC OA FOLLOWING ACL INJURY

U. Heilmeier¹, K. Amano¹, M. Tanaka¹, B. J. Schwaiger¹, J. L. Huebner², T. V. Stabler², V. Kraus², B. Ma¹, T. M. Link¹, X. Li¹; ¹Univ. of California San Francisco, San Francisco, CA, ²Duke Univ. Sch. of Med., Duke Molecular Physiology Inst., Durham, NC

6:10 PM – 6:20 PM

53

FUNCTIONAL FOLATE RECEPTOR CELLS WITHIN SYNOVIUM AND FLUID AS THERAPEUTIC TARGETS FOR OSTEOARTHRITIS

M-F. Hsueh^{1,2}, Y. Lu³, L. Wheeler³, S. S. Wellman⁴, M. P. Bolognesi⁴, V. B. Kraus^{1,2}; ¹Duke Univ., Durham, NC, ²Duke Molecular Physiology Inst., Durham, NC, ³Endocyte, Inc., West Lafayette, IN, ⁴Dept. of Dept. of Orthopaedic Surgery, Durham, NC

6:20 PM – 6:30 PM

54

INVESTIGATING THE SYSTEMIC INFLAMMATORY STATUS OF A SUBGROUP OF OSTEOARTHRITIS PATIENTS WHO DISPLAY BOTH ALTERED CARTILAGE DNA METHYLATION AND EXPRESSION OF INFLAMMATORY GENES

E. Rogers, L. N. Reynard, K. Rankin, J. Loughlin; Newcastle Univ., Newcastle upon Tyne, United Kingdom

6:45 PM – 8:00 PM

Emperor's Ballroom

**Meet the Professor Mentorship Session for Young Investigators
Followed by Reception**



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SATURDAY APRIL 29TH, 2017

7:30 AM - 8:30 AM
Emperor's Ballroom I

Breakfast Workshop C
Non-pharmacological Treatments in OA
Gillian Hawker, MD, FRCPC
Soren Skou, PT, MSc, PhD
Daniel White, PT, ScD, MSc

Emperor's Ballroom II

Breakfast Workshop D
Radiographic Predictors of OA Progression
Frank Roemer, MD, Associate Professor

Augustus Ballroom

Breakfast Poster Tour 5
Osteoarthritis Therapy

Breakfast Poster Tour 6
Cartilage & Bone

Breakfast Poster Tour 7
Imaging & Biomarkers

Breakfast Poster Tour 8
Biomechanics

Concurrent Session 5 - Inflammation

Moderated by: Ru Liu-Bryan, PhD and Rik Lories, MD, PhD

8:45 AM - 9:15 AM
Palace Ballroom One

Redox Regulation of Cell Signaling in Chondrocytes
Richard Loeser, MD

9:15 AM - 9:25 AM

55
PERSISTENT GLOBAL INFLAMMATION CAUSED BY THE LOSS OF SIRT1 PROTECTS AGAINST EXPERIMENTAL OSTEOARTHRITIS
P. Sacitharan¹, J. M. Zarebska¹, B. Stott¹, I. Parisi¹, M. Curtin¹, G. Bou-Gharios², J. R. Edwards¹, T. Vincent¹; ¹Univ. of Oxford, Oxford, United Kingdom, ²Univ. of Liverpool, Liverpool, United Kingdom

9:25 AM - 9:35 AM

56
CD14 DEFICIENCY PREVENTS SUBCHONDRAL BONE REMODELING AND FUNCTIONAL DECLINE IN A MURINE MODEL OF OSTEOARTHRITIS
N. Sambamurthy, V. Nguyen, R. Smalley, G. Dodge, **C. Scanzello**; Univ. of Pennsylvania & CMC VA Med. Ctr., Philadelphia, PA

9:35 AM - 9:45 AM

57
ELIMINATION OF DYSFUNCTIONAL MITOCHONDRIA BY PARKIN SUPPRESSES OXIDATIVE STRESS AND EXPRESSION OF OSTEOARTHRITIS RELATED GENES IN HUMAN CHONDROCYTES
M. Y. Ansari, N. M. Khan, I. Ahmad, T. M. Haqqi; Northeast Ohio Med. Univ., Rootstown, OH

9:45 AM - 9:55 AM

58
TSG-6- A DOUBLE-EDGED SWORD FOR OSTEOARTHRITIS
C-H. Chou¹, D. E. Attarian¹, H-G. Wisniewski², P. Band³, V. B. Kraus¹; ¹Duke Univ., Durham, NC, ²Matrix Biology Inst., Fort Lee, NJ, ³New York Univ., Sch. of Med., New York, NY



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9:55 AM - 10:05 AM

59

STATIN ATTENUATES THE INFLAMMATORY DAMAGE ON CHONDROCYTES BY INHIBITING RHO ACTIVITY

M. Lv, Y. Zhou, S. Fan, O. Smith, X. Lu; Univ. of Delaware, Newark, DE

10:05 AM - 10:15 AM

60

S100A8/A9 INCREASES THE MOBILIZATION OF LY6C HIGH MONOCYTES TO THE SYNOVIUM DURING EXPERIMENTAL OSTEOARTHRITIS

N. A. Cremers, E. J. Geven, A. B. Blom, A. Sloetjes, I. DiCeglie, S. van Dalen, M. van den Bosch, P. van der Kraan, P. van Lent; Radboud Univ. Med. center, Nijmegen, Netherlands

Concurrent Session 6 - Joint Health

Moderated by: **Kim Bennell, PhD, PT** and **Flavia Cicuttini, MBBS, PhD, FRACP**

8:45 AM - 9:15 AM

Palace Ballroom Three

Joint Health Begins in Childhood

Graeme Jones, MD, FRACP, FAFPHM

9:15 AM - 9:25 AM

61

DOES THE ASSOCIATION BETWEEN INCREASED KNEE MUSCLES STRENGTH AND IMPROVED PHYSICAL FUNCTION DIFFER ACCORDING TO BASELINE PHYSICAL FUNCTION? EXPLORATORY ANALYSES FROM A RANDOMISED CONTROLLED TRIAL

M. Hall¹, R. S. Hinman¹, M. van der Esch², M. van der Leeden², J. Kasza³, T. V. Wrigley¹, B. R. Metcalf¹, F. Dobson¹, K. L. Bennell¹; ¹Univ. of Melbourne, Carlton, Australia, ²Amsterdam Rehabilitation Res. Ctr. Reade, Amsterdam, Netherlands, ³Monash Univ., Melbourne, Australia

9:25 AM - 9:35 AM

62

THE EFFECT OF NEUROMUSCULAR EXERCISE COMPARED WITH INSTRUCTION IN ANALGESIC USE ON KNEE FUNCTION IN PATIENTS WITH EARLY KNEE OSTEOARTHRITIS - ONE YEAR OUTCOME OF THE EXERPHARMA RANDOMIZED TRIAL

A. Holsgaard-Larsen¹, R. Christensen², B. Clausen³, J. Søndergaard⁴, T. P. Andriacchi⁵, E. M. Roos³; ¹Dept. of Clinical Res., Univ. of Southern Denmark, Odense, Denmark, ²Musculoskeletal Statistics Unit, The Parker Inst., Bispebjerg and Frederiksberg Hosp., Copenhagen, Denmark, ³Res. Unit for Musculoskeletal Function and Physiotherapy, Inst. of Sports Sci. and Clinical Biomechanics, Univ. of Southern Denmark, Odense, Denmark, ⁴Res. Unit for Gen. Practice, Inst. of Publ. Hlth., Univ. of Southern Denmark, Odense, Denmark, ⁵Dept.s of Mechanical Engineering and Orthopaedic Surgery, Stanford Univ., 6VA Joint Preservation Ctr., Palo Alto, CA

9:35 AM - 9:45 AM

63

THE EFFECT OF AGE AND PUBERTY ON PROXIMAL FEMUR SHAPE

M. Frysz¹, J. S. Gregory², D. Baird¹, R. M. Aspden², L. Paternoster¹, J. H. Tobias¹; ¹Univ. of Bristol, Bristol, United Kingdom, ²Univ. of Aberdeen, Aberdeen, United Kingdom

9:45 AM - 9:55 AM

64

THE ASSOCIATION BETWEEN CHILDHOOD OBESITY MEASURES AND ADULTHOOD KNEE CARTILAGE DEFECTS: A 25-YEAR COHORT STUDY

B. Eathakkattu Antony¹, S. Thayer², A. Venn¹, A. Halliday², F. Cicuttini³, L. March⁴, T. Dwyer⁵, G. Jones¹, C. Ding^{1,3}; ¹Menzies Inst. for Med. Res., Univ. of Tasmania, Hobart, Australia, ²Dept. of Radiology, Royal Hobart Hosp., Hobart, Australia, ³Dept. of Epidemiology, Monash Univ., Melbourne, Australia, ⁴Inst. of Bone and Joint Res., Univ. of Sydney, Sydney, Australia, ⁵Murdoch Childrens Res. Inst., Univ. of Melbourne, Melbourne, Australia



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9:55 AM - 10:05 AM

65

THE CONSEQUENCES OF A YOUTH SPORT RELATED KNEE INJURY: EVIDENCE OF EARLY POST-TRAUMATIC OSTEOARTHRITIS AND OTHER NEGATIVE HEALTH OUTCOMES 3-10 YEARS POST-INJURY

J. L. Whittaker^{1,2}, C. Toomey³, A. Nettel-Aguirre⁴, J. L. Jaremko⁵, C. A. Emery^{3,4}; ¹Dept. of Physical Therapy, Faculty of Rehabilitation Med., Univ. of Alberta, Edmonton, AB, Canada, ²Glen Sather Sports Med. Clinic, Univ. of Alberta, Edmonton, AB, Canada, ³Sport Injury Prevention Res. Ctr., Faculty of Kinesiology, Univ. of Calgary, Calgary, AB, Canada, ⁴The Alberta Children's Hosp. Res. Inst., Faculty of Med., Univ. of Calgary, Calgary, AB, Canada, ⁵Dept. of Radiology, Faculty of Med. and Dentistry, Univ. of Alberta, Edmonton, AB, Canada

10:05 AM - 10:15 AM

66

SEARCHING FOR THE OPTIMAL TIMING FOR PREVENTIVE WEIGHT REDUCTION STRATEGIES FOR KNEE OSTEOARTHRITIS DEVELOPMENT

J. Runhaar, M. L. Landsmeer, S. M. Bierma-Zeinstra; Erasmus Univ. Med. Ctr., Rotterdam, Netherlands

10:15 AM - 10:45 AM

Augustus Ballroom

Break

Concurrent Session 7 - Matrix

Moderated by: Roman Krawetz, PhD and Linda Troeberg, PhD

10:45 AM - 11:15 AM

Palace Ballroom One

Type II Collagen; Designed to Last a Lifetime?

Katja Heinemeier, PhD

11:15 AM - 11:25 AM

67

SITE-1 PROTEASE REGULATES SKELETAL STEM CELL POPULATION AND OSTEOGENIC DIFFERENTIATION IN MICE

D. Patra, J. Mueller, L. J. Sandell; Washington Univ. Sch. of Med., St. Louis, MO

11:25 AM - 11:35 AM

68

QUANTITATIVE ASSESSMENT OF CARTILAGE REMODELING IN HEALTH AND DISEASE

M-F. Hsueh^{1,2}, V. B. Kraus^{1,2}, P. Onnerfjord³; ¹Duke Univ., Durham, NC, ²Duke Molecular Physiology Inst., Durham, NC, ³Lund Univ., Lund, Sweden

11:35 AM - 11:45 AM

69

ACCUMULATION OF ADVANCED GLYCATION END-PRODUCTS (AGES) IN OSTEOARTHRITIC CARTILAGE IS RELATED TO AN IMPAIRMENT OF THE ADAPTATIVE MECHANISM OF GLYOXALASE-1

S. Trellu¹, A. Courties¹, S. Jaisson², B. Friguet³, X. Houard⁴, F-P. Erkhirsch⁵, C. Jacques⁴, F. Berenbaum¹, J. Sellam¹; ¹UPMC Univ Paris 06, Inserm UMRS_938, Rheumatology Dept., AP-HP, Saint-Antoine Hosp., Paris, France, ²Univ. of Reims Champagne-Ardenne, UMR CNRS 7369, Lab. of Biochemistry and Molecular Biology, Reims, France, ³UPMC Univ Paris 06, UMR 8256, Biological Adaptation and Ageing-IBPS, Paris, France, ⁴UPMC Univ Paris 06, Inserm UMRS_938, Saint-Antoine Hosp., Paris, France, ⁵Groupe Maussins, Clinique des Maussins-Ramsay, Général de Santé, Paris, France

11:45 AM - 11:55 AM

70

A BIOMARKER OF AGGREGANASE DEGRADED AGGREGAN IS ASSOCIATED WITH KEY CHARACTERISTICS OF OA - INVESTIGATION IN A PHASE III CLINICAL STUDY

A. Siebuhr, S. Hoielt, M. Karsdal, A-C. Bay-Jensen; Nordic BioSci. Biomarkers and Res., Herlev, Denmark

11:55 AM - 12:05 PM

71

CHANGES IN SYNOVIAL FLUID AND SERUM CONCENTRATIONS OF CARTILAGE OLIGOMERIC MATRIX PROTEIN OVER FIVE YEARS AFTER ANTERIOR CRUCIATE LIGAMENT RUPTURE

A. Struglics¹, P. Swärd¹, S. Larsson¹, A. Pramhed², R. Frobell¹, L. S. Lohmander¹; ¹Lund Univ., Faculty of Med., Dept. of Clinical Sci. Lund, Orthopaedics, Lund, Sweden, ²Euro Diagnostica AB, Malmö, Sweden



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12:05 PM - 12:15 PM

72

NOVEL MODELS OF LATE ONSET, PROGRESSIVE OSTEOARTHRITIS CAUSED BY POINT MUTATIONS IN THE TWO ALPHA CHAINS OF COLLAGEN TYPE I

A. M. Blease¹, L. Wisby¹, A. R. Haynes¹, T. L. Nicol¹, S. Falcone¹, H. Lad¹, C. T. Esapa¹, N. Horwood², C. T. Thorpe³, R. V. Thakker⁴, H. R. Screen³, T. L. Vincent², S. D. Brown¹, P. K. Potter¹; ¹Mammalian Genetics Unit, MRC Harwell Insitute, Oxford, United Kingdom, ²The Kennedy Inst., Oxford, United Kingdom, ³Sch. of Engineering & Material Sci., Queen Mary's Univ., London, United Kingdom, ⁴Academic Endocrine Unit, OCDEM, Oxford, United Kingdom

Concurrent Session 8 - OA Treatments

Moderated by: **Martin Englund, MD, PhD** and **Amanda Nelson, MD, MSCR, RhMSUS**

10:45 AM - 11:15 AM

Palace Ballroom Three

Effectiveness of Surgery: Perception versus Reality

Ian Harris, AM, MBBS, MMed(Clin Epi), PhD, FRACS(Orth), FAOrthA

11:15 AM - 11:25 AM

73

GOOD LIFE WITH OSTEOARTHRITIS IN DENMARK (GLA:DTM): A NATIONWIDE IMPLEMENTATION OF CLINICAL RECOMMENDATIONS OF EDUCATION AND SUPERVISED EXERCISE IN KNEE AND HIP OSTEOARTHRITIS

S. T. Skou^{1,2}, E. M. Roos¹; ¹Res. Unit for Musculoskeletal Function and Physiotherapy, Univ. of Southern Denmark, Odense, Denmark, ²Dept. of Physiotherapy and Occupational Therapy, Næstved-Slagelse-Ringsted Hosp., Slagelse, Denmark

11:25 AM - 11:35 AM

74

KNEE OSTEOARTHRITIS IMPROVEMENT AND RELATED BIOMARKER PROFILES ARE SUSTAINED AT 24 MONTHS FOLLOWING BARIATRIC SURGERY

S. X. Chen¹, F. Bomfim¹, T. Mukherjee¹, E. Wilder¹, S. Aharon¹, K. Toth¹, L. Browne¹, R. La Rocca Vieira¹, J. Patel¹, C. Ren-Fielding¹, M. Parikh¹, S. B. Abramson¹, M. Attur¹, **J. Samuels**²; ¹NYU Langone Med. Ctr., New York, NY, ²NYU Langone Hosp. for Joint Diseases, New York, NY

11:35 AM - 11:45 AM

75

KNEE OSTEOARTHRITIS PHENOTYPES AND THEIR RELEVANCE FOR OUTCOMES: A SYSTEMATIC REVIEW OF THE LITERATURE

L. A. Deveza¹, L. Melo¹, T. Yamato², K. Mills³, D. J. Hunter¹; ¹Rheumatology Dept., Royal North Shore Hosp. and Inst. of Bone and Joint Res., Kolling Inst., Univ. of Sydney, Sydney, Australia, ²The George Inst. for Global Health, Univ. of Sydney, Sydney, Australia, ³Faculty of Med. and Hlth.Sci., Dept. of Hlth.Professions, Macquarie Univ., Sydney, Australia

11:45 AM - 11:55 AM

76

EFFECT OF BISPHOSPHONATE USE ON TRAJECTORIES OF MRI-BASED THREE-DIMENSIONAL BONE SHAPE OF THE KNEE OVER FOUR YEARS

T. Neogi¹, M. A. Bowes², Y. Zhang¹, J. Niu¹, P. G. Conaghan³; ¹Boston Univ. Sch. of Med., Boston, MA, ²Imorphics, Manchester, United Kingdom, ³Univ. of Leeds, Leeds, United Kingdom

11:55 AM - 12:05 PM

77

GLPG1972: A POTENT, SELECTIVE, ORALLY AVAILABLE ADAMTS-5 INHIBITOR FOR THE TREATMENT OF OA

P. Clement-Lacroix¹, C. Little², S. Meurisse¹, R. Blanqué¹, P. Mollat¹, F. Brebion¹, R. Gosmini¹, F. De Ceuninck³, I. Botez³, L. Lepascheux¹, E. van der Aar⁴, T. Christophe⁴, N. Vandervoort⁴, C. Cottereaux¹, D. Comas¹, P. Deprez¹, **D. Amantini**¹; ¹Galapagos, Romainville, France, ²Raymond Purves Bone and Joint Res. Lab., Univ. of Sydney, Kolling Inst., Northern Sydney Local Hlth.District, Sidney, Australia, ³Inst. de Recherches Servier, Suresnes, France, ⁴Galapagos, Mechelen, Belgium



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12:05 PM - 12:15 PM

78

THE RISK OF OSTEOARTHRITIS PROGRESSION AFTER ARTHROSCOPIC PARTIAL MENISCECTOMY (APM); DATA FROM AN RCT OF APM VS. PHYSICAL THERAPY

J. E. Collins^{1,2}, E. Losina^{1,2}, A. Guermazi³, J. N. Katz^{1,2}; ¹Brigham and Women's Hosp., Boston, MA, ²Harvard Med. Sch., Boston, MA, ³Boston Univ. Sch. of Med., Boston, MA

12:15 PM - 2:00 PM

Lunch on Own

12:15 - 2:00 PM

Emperor's Ballroom I

Young Investigator Workshop

#SocialMediaSavvy: Tips for Using Social Media to Successfully Promote your Research

Francis Berenbaum, MD, PhD

David Hunter, PhD, FRACS, MBBS

Ali Mobasheri, BSc, ARCS, MSc, DPhil

Concurrent Session 9 - In vivo Pathogenesis

Moderated by: Anne-Marie Malfait, MD, PhD and Eeva Moilanen, MD

2:00 PM - 2:30 PM

Palace Ballroom One

Sik3 Suppresses Disease in Murine OA

Noriyuki Tsumaki, MD, PhD

2:30 PM - 2:40 PM

79

OSTEOARTHRITIS INDUCED BY DESTABILIZATION OF THE MEDIAL MENISCUS (DMM) IS REDUCED IN GERM-FREE MICE

V. Ulici, K. L. Kelley, R. B. Sartor, R. F. Loeser, Jr.; UNC at Chapel Hill, Chapel Hill, NC

2:40 PM - 2:50 PM

80

LOSS OF MIR-204 AND MIR-211 IN MESENCHYMAL STEM CELLS CAUSES OSTEOARTHRITIS-LIKE PHENOTYPE IN MICE

L. Zhao, J. Huang, L. Liao, D. Chen; Rush Univ. Med. Ctr., Chicago, IL

2:50 PM - 3:00 PM

81

NOCICEPTOR INNERVATION OF THE MOUSE KNEE DRAMATICALLY DECLINES WITH AGE

A. Obeidat¹, R. J. Miller², R. E. Miller¹, A-M. Malfait¹; ¹Rush Univ. Med. Ctr., Chicago, IL, ²Northwestern Univ. Feinberg Sch. of Med., Chicago, IL

3:00 PM - 3:10 PM

82

IN VIVO EFFECT OF OPTICIN DEFICIENCY IN A SURGICALLY INDUCED MODEL OF OSTEOARTHRITIS

A. Farran^{1,2}, G. Valverde-Franco², F. Paré², L. Tio¹, J. Monfort¹, J-P. Pelletier², J. Martel-Pelletier²; ¹IMIM-Hosp. del Mar, Barcelona, Spain, ²Osteoarthritis Res. Unit, Univ. of Montreal Hosp. Res. Ctr. (CRCHUM), Montreal, QC, Canada

3:10 PM - 3:20 PM

83

EGFR SIGNALING IS CRITICAL FOR MAINTAINING THE SUPERFICIAL LAYER OF ARTICULAR CARTILAGE AND PREVENTING OSTEOARTHRITIS INITIATION

H. Jia¹, X. Ma¹, W. Tong¹, B. Doyran², Z. Sun¹, L. Wang¹, X. Zhang¹, Y. Zhou³, F. Badar⁴, A. Chandra¹, X. Lu³, Y. Xia⁴, L. Han², M. Enomoto-Iwamoto⁵, **L. Qin**¹; ¹Univ. of Pennsylvania, Philadelphia, PA, ²Drexel Univ., Philadelphia, PA, ³Univ. of Delaware, Newark, DE, ⁴Oakland Univ., Rochester, MI, ⁵The Children's Hosp. of Philadelphia, Philadelphia, PA

3:20 PM - 3:30 PM

84

CARTILAGE-SPECIFIC NFAT1 OVEREXPRESSION DELAYS THE ONSET AND ATTENUATES THE PROGRESSION OF POSTTRAUMATIC OSTEOARTHRITIS

Y. Feng¹, Q. Lu¹, N. Barnthouse¹, W. Kramer¹, A. Haleem², **J. Wang**¹; ¹Univ. of Kansas Med. Ctr., Kansas City, KS, ²Kansas City VA Med. Ctr., Kansas City, MO



INFO

EXHIBITORS

PROGRAM

POSTERS

Concurrent Session 10 – Metabolism

Moderated by: **Tim Griffin, PhD** and **Francois Rannou, MD, PhD**

2:00 PM – 2:30 PM

Palace Ballroom Three

Metabolic OA; Does it Exist?

David Felson, MD, MPH

2:30 PM – 2:40 PM

85

LACK OF OBESITY-RELATED FEATURES IN ADIPOCTES AND INFLAMMATORY CELLS IN THE INFRAPATELLAR FAT-PAD OF OSTEOARTHRITIS PATIENTS (IFP)

A. de Jong¹, I. R. Klein-Wieringa¹, S. N. Andersen¹, J. C. Kweskeboom¹, L. Herb-van Toorn¹, B. J. de Lange-Brokaar¹, D. van Delft¹, J. Garcia², W. Wei², H. J. van der Heide¹, Y. M. Bastiaansen-Jenniskens², G. J. van Osch², A. M. Zuurmond³, V. Stojanovic-Susulic⁴, R. G. Nelissen¹, R. E. Toes¹, M. Kloppenburg¹, **A. Ioan-Facsinay¹**; ¹Leiden Univ. Med. Ctr., Leiden, Netherlands, ²Erasmus Univ. Med. Ctr., Rotterdam, Netherlands, ³TNO, Leiden, Netherlands, ⁴Janssen, Pharmaceutical Companies Johnson & Johnson, Springhouse, PA

2:40 PM – 2:50 PM

86

ASSOCIATIONS BETWEEN METABOLIC SYNDROME AND HAND OSTEOARTHRITIS: DATA FROM THE FRAMINGHAM STUDY

M. S. Strand¹, T. Neogi², J. Niu², D. T. Felson^{2,3}, **I. K. Haugen⁴**; ¹Univ. of Oslo, Oslo, Norway, ²Boston Univ., Boston, MA, ³Univ. of Manchester, Manchester, United Kingdom, ⁴Diakonhjemmet Hosp., Oslo, Norway

2:50 PM – 3:00 PM

87

OBESITY-RELATED SYSTEMIC INFLAMMATION AND KNEE SYNOVITIS

D. Misra¹, S. Sheehy¹, S. Jafarzadeh¹, T. Neogi¹, M. Nevitt², C. E. Lewis³, J. Torner⁴, D. T. Felson¹, for Multicenter Osteoarthritis Study; ¹Boston Univ. Sch. of Med., Boston, MA, ²UCSF Sch. of Med., San Francisco, CA, ³UAB Sch. of Med., Birmingham, AL, ⁴Univ. of Iowa, Coll. of Publ. Hlth., Iowa City, IA

3:00 PM – 3:10 PM

88

ADENOSINE TRIPHOSPHATE CITRATE LYASE IN CARTILAGE HOMEOSTASIS AND OSTEOARTHRITIS

L-Y. Chen¹, **R. Liu-Bryan²**; ¹VAMC, San Diego, CA, ²VAMC/UCSD, San Diego, CA

3:10 PM – 3:20 PM

89

HIGH FAT AND HIGH SUCROSE DIETS IN MICE HAVE INDEPENDENT EFFECTS ON OSTEOARTHRITIS PATHOLOGY AND CHONDROCYTE METABOLIC STRESS

E. L. Donovan, E. BARBOZA, M. KINTER, T. M. GRIFFIN; Oklahoma Med. Res. Fndn., Oklahoma City, OK

3:20 PM – 3:30 PM

90

GENE THERAPY FOR FOLLISTATIN DECREASES SYSTEMIC INFLAMMATION AND PAIN SENSITIVITY FOLLOWING KNEE INJURY IN HIGH-FAT DIET INDUCED OBESE MICE

K. H. Collins¹, R. Tang², C-L. Wu², F. Guilak²; ¹Univ. of Calgary, Calgary, AB, Canada, ²Washington Univ., St. Louis, MO

3:30 PM – 5:00 PM

Augustus Ballroom

Poster Session 3

Plenary Session 7 – DEBATE

Moderated by: **Joel Block, MD** and **Carolyn Emery, PT, PhD**

5:00 PM – 6:00 PM

Palace Ballroom One

Is Exercise Good or Bad for OA?!

Steve Messier, PhD - CON

Nigel Arden, MBBS, FRCP, MSc, MD - PRO

6:15 PM – 9:00 PM

Emperor's Ballroom I

Chinese Abstract Session – conducted in Chinese – Sponsored by Hisun Pharma



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EXHIBITORS

PROGRAM

POSTERS

SUNDAY APRIL 30TH, 2017

7.30 AM - 8.30 AM

Emperor's Ballroom I

Breakfast Workshop E

Effect of Intra-Articular Placebo: Implications for Trial Design

Tim McAlindon, MD, MPH

Emperor's Ballroom II

Breakfast Workshop F

Clinical Testing in Veterinary OA

Peter Hanson, DVM, PhD, DACVS

Concurrent Session II - Mechanobiology

Moderated by: Frank Beier, PhD and Angus Wann, PhD

8:45 AM - 9:15 AM

Palace Ballroom One

Mechanical Factors in Bone and Joint Development

Eli Zelzer, Prof.

9:15 AM - 9:25 AM

91

EFFECT OF MODERATE INCREASING EXERCISE ON THE MECHANICAL BALANCE OF THE KNEE JOINT IN YOUNG RATS

P. Rahnamay Moshtagh^{1,2}, N. M. Korthagen^{1,3}, S. G. Plomp³, B. Pouran^{1,2}, C. Sanchez⁴, Y. Henrotin⁴, A. Zadpoor², H. Weinans^{1,2}, ¹Utrecht Univ. Med. Ctr., Utrecht, Netherlands, ²TU Delft, Delft, Netherlands, ³Utrecht Univ. Vet. Med., Utrecht, Netherlands, ⁴Bone and Cartilage Res. Unit, Univ. of Liege, Arthropole, Lige, Belgium

9:25 AM - 9:35 AM

92

EXERCISE INDUCES TRANSIENT INFLAMMATORY AND PRO-FIBROTIC REMODELING OF THE INFRAPATELLAR FAT PAD

E. Barboza, T. Kovats, J. Hudson, S. Kovats, T. M. Griffin; Oklahoma Med. Res. Fndn., Oklahoma City, OK

9:35 AM - 9:45 AM

93

INCREASED CARTILAGE REMODELLING AND IMPAIRED CHONDROCYTE MECHANOTRANSDUCTION IN EARLY POST-TRAUMATIC OSTEOARTHRITIS

M. A. Finnilä^{1,2}, S. Ojanen^{1,2}, S. Saarakkala^{2,3}, C. Hewitt⁴, W. Herzog⁴, P. Nieminen¹, D. A. Hart⁴, R. K. Korhonen¹, ¹Univ. of Eastern Finland, Kuopio, Finland, ²Univ. of Oulu, Oulu, Finland, ³Oulu Univ. Hosp., Oulu, Finland, ⁴Univ. of Calgary, Calgary, AB, Canada

9:45 AM - 9:55 AM

94

MECHANICAL RESPONSE OF ARTICULAR CARTILAGE DAMAGED BY MACRO CRACKS

A. Komeili, W. Chau, Y. Al-Saffar, W. Herzog; Univ. of Calgary, Calgary, AB, Canada

9:55 AM - 10:05 AM

95

CHONDROPROTECTION BY UROCORTIN INVOLVES BLOCKADE OF A MECHANOSENSITIVE PIEZO ION CHANNEL: NOVEL, EXPLOITABLE PATHWAYS FOR THE TREATMENT AND PREVENTION OF OSTEOARTHRITIS?

K. M. Lawrence¹, R. C. Jones¹, T. R. Jackson¹, R. L. Baylie¹, B. Abbott¹, B. Bruhn-Olszewskal¹, T. N. Board², I. C. Locke², S. M. Richardson¹, P. A. Townsend¹; ¹Univ. of Manchester, Manchester, United Kingdom, ²Wrightington Hosp., Wrightington, United Kingdom, ³Univ. of Westminster, London, United Kingdom

10:05 AM - 10:15 AM

96

METABOLIC FLUX ANALYSIS OF PRIMARY OSTEOARTHRITIC CHONDROCYTES AFTER DYNAMIC COMPRESSION

D. Salinas, **R. June**; Montana State Univ., Bozeman, MT



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EXHIBITORS

PROGRAM

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Concurrent Session 12 – Imaging

Moderated by: **Sharmila Majumdar, PhD** and **Frank Roemer, MD**

8:45 AM – 9:15 AM

Palace Ballroom Three

MRI in OA Research and the Clinic

Edwin Oei, MD, PhD

9:15 AM – 9:25 AM

97

BASELINE KNEE SHAPE DISCRIMINATES CASES OF INCIDENT KNEE RADIOGRAPHIC OA FROM CONTROLS: A CASE-CONTROL STUDY USING NOVEL METHODOLOGY FROM THE JOHNSTON COUNTY OSTEOARTHRITIS PROJECT

A. E. Nelson¹, Y. Shi¹, R. Tiller¹, T. A. Schwartz¹, J. B. Renner¹, J. M. Jordan¹, R. Aspden², J. S. Gregory², J. S. Marron¹; ¹Univ. of North Carolina, Chapel Hill, NC, ²Univ. of Aberdeen, Aberdeen, United Kingdom

9:25 AM – 9:35 AM

98

THE ASSOCIATION BETWEEN TRABECULAR BONE TEXTURE AND MRI-DEFINED OSTEOPHYTES IN FEMALE FINGER JOINTS WITHOUT RADIOGRAPHIC OSTEOARTHRITIS

M. Wolski¹, P. Podsiadlo¹, G. W. Stachowiak¹, **M. Englund²**, I. K. Haugen³; ¹Curtin Univ., Perth, Australia, ²Lund Univ., Lund, Sweden, ³Diakonhjemmet Hosp., Oslo, Norway

9:35 AM – 9:45 AM

99

ASSOCIATIONS BETWEEN SYNOVITIS ON ULTRASOUND AND PAIN IN THUMB BASE OSTEOARTHRITIS

S. Ermurat¹, **F. P. Kroon²**, M. C. Kortekaas², M. Kloppenburg²; ¹Uluda Univ. Faculty of Med., Bursa, Turkey, ²Leiden Univ. Med. Ctr., Leiden, Netherlands

9:45 AM – 9:55 AM

100

RISK ASSESSMENT TOOL FOR DEVELOPMENT OF OSTEOARTHRITIS OVER 8 YEARS USING BASELINE CLINICAL DATA, X-RAY, AND MR IMAGING - DATA FROM THE OSTEOARTHRITIS INITIATIVE

G. B. Joseph¹, C. E. McCulloch², M. C. Nevitt², J. Neumann¹, A. Gersing¹, B. Schwaiger¹, J. A. Lynch², U. Heilmeier¹, N. Lane³, D. Black², T. M. Link²; ¹Dept. of Radiology and BioMed. Imaging, Univ. of California San Francisco, San Francisco, CA, ²Dept. of Epidemiology and Biostatistics, Univ. of California San Francisco, San Francisco, CA, ³Dept. of Rheumatology, Univ. of California Davis, Davis, CA

9:55 AM – 10:05 AM

101

TEXTURE ANALYSIS OF T2 MAPS OF THE CARTILAGE INDICATES DIFFERENCES IN KNEE CARTILAGE MATRIX IN SUBJECTS WITH TYPE 2 DIABETES: DATA FROM THE OSTEOARTHRITIS INITIATIVE

J. Neumann¹, U. Heilmeier¹, G. B. Joseph¹, F. C. Hofmann¹, W. Ashmeik¹, A. S. Gersing¹, N. Chanckek^{1,2}, B. J. Schwaiger¹, M. C. Nevitt³, C. E. McCulloch³, N. E. Lane⁴, F. Liu³, J. A. Lynch³, T. M. Link¹; ¹UCSF Dept. of Radiology & BioMed. Imaging, University of California, San Francisco, CA, ²Dept. of Radiology, Naresuan University, Phitsanulok, Thailand, ³Dept. of Epidemiology and Biostatistics, University of California, San Francisco, CA, ⁴Dept. of Med. and Ctr. for Musculoskeletal Hlth., University of California, Davis, Sacramento, CA

10:05 AM – 10:15 AM

102

LONGITUDINAL CHANGE IN INFRAPATELLAR FAT PAD VOLUME AND MRI SIGNAL PRIOR TO TOTAL KNEE REPLACEMENT - DATA FROM THE OSTEOARTHRITIS INITIATIVE

A. S. Ruhdorfer¹, W. Wirth^{1,2}, J. Dörrenberg³, C. K. Kwok⁴, D. J. Hunter⁵, F. Eckstein¹; ¹Paracelsus Med. Univ. Salzburg & Nuremberg, Salzburg, Austria, ²Chondrometrics GmbH, Ainring, Germany, ³Paracelsus Med. Univ. Salzburg & Nuremberg, Salzburg, AUSTRIA, Salzburg, Austria, ⁴Univ. of Arizona Arthritis Ctr., Univ. of Arizona Coll. of Med., Tucson, AZ, ⁵Rheumatology Dept., Royal North Shore Hosp. & Inst. of Bone and Joint Res., Kolling Inst., Univ. of Sydney, Sydney, Australia

10:15 AM – 10:45 AM

Pre-Function I

Break



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WORLD CONGRESS ON OSTEOARTHRITIS
CAESAR'S PALACE | LAS VEGAS, NV

APRIL 27-30, 2017

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EXHIBITORS

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Plenary Session 8 - Year in Review

Moderated by: Tuhina Neogi, MD, PhD, FRCPC and Carla Scanzello, MD, PhD

10:45 AM - 11:00 AM

Palace Ballroom One

Rehabilitation and Outcomes

Dieuwke Schiphof, PhD

11:00 AM - 11:15 AM

Osteoarthritis Biology

Tom Appleton, MD, PhD, FRCPC

11:15 AM - 11:30 AM

Clinical

Amanda Nelson, MD, MSCR, RhMSUS

11:30 AM - 11:45 AM

Genetics/Genomics and Epigenetics

Mandy Peffers, PhD

11:45 AM - 12:00 PM

Biomarkers

Fiona Watt, B.Med.Sci, MBBS, PhD

12:00 PM - 12:15 PM

Imaging

John Carrino, MD, MPH

12:15 PM - 12:30 PM

Mechanics

Yang Wang, PhD