

# Daily News • Sunday, April 17



Pr. Cyrus Cooper &amp; Pr. René Rizzoli



## DEAR GUEST,

**As Chairmen of the Scientific Programme Committee of the 2016 WCO-IOF-ESCEO congress, it is our honor and privilege to welcome you in the beautiful city of Malaga.**

It has been a difficult task to select a limited number of abstracts for oral presentations among the 1150 high quality submitted abstracts. During the meeting, besides the invited plenary lectures and selected oral communications, we have dedicated a significant amount of time to poster viewing and discussion. Some of them will also be briefly presented orally during the poster session.

Our "Meet the Expert" sessions were enormously attended during the previous congresses, fulfilling the needs of the practitioners participating to the congress. We have thus decided to increase their number on this particular occasion to address a large scope of important topical issues in musculoskeletal diseases. They always generate lively debate, interactions and provide clear take home messages for the daily practice. We very much hope that they will be as successful as in the past.

We would also like to highlight, for the very first time this year, the non-sponsored workshops that should provide a unique opportunity for exchange of knowledge between scientists and health professionals. The congress attendees have submitted a topic and speakers to the scientific program committee, which was in charge of the final selection.

On behalf of both IOF and ESCEO, it is our pleasure to present several awards. These reward longstanding contributions to both societies, as well as are encouraging younger scientists to pursue high quality research in the fields of osteoporosis or osteoarthritis.

- | The 2016 ESCEO Medal of Excellence to John A. Kanis
- | The ESCEO-IOF Herbert Fleisch Medal to René Rizzoli
- | The two ESCEO-MSD Fellowships to Fannick Buckinx and Nicola Veronese
- | The IOF President's Awards to 8 distinguished scientists: Leith Zakraoui, Jorge Morales-Torres, Ambrish Mithal, Paul Mitchell, Thierry Thomas, Andrea Gáspárik, Jorge Cannata- Andía and Famida Jiwa

- | The IOF Medal of Achievement to Eugene McCloskey
- | The ESCEO-AgNovos Healthcare Young Investigator Awards to 20 young scientists
- | The IOF Committee of National Societies Medal to Elias Saba
- | The IOF Olof Johnell Science Award to Serge Ferrari
- | The two 2016 IOF-ESCEO Pierre Meunier Young Scientist Awards to Olivier Bruyère and Elaine Dennison

We strongly believe that this meeting, including high quality plenary lectures, oral communications and poster sessions, will build on the success of our previous congresses. It will contribute to more effective efforts in our joint mission to reduce the burden of osteoporosis, osteoarthritis and musculoskeletal diseases, for the highest benefits of our suffering patients.

**We wish you a happy, enjoyable and fruitful meeting.**

**Cyrus Cooper**

Chair, IOF Committee Scientific Advisors

**René Rizzoli**

Chair, ESCEO Scientific Advisory Board

## HIGHLIGHTS OF THE MEETING

The morning session of Saturday April 16 started with the Lecture by Peter R Ebeling who discussed the relationship between vitamin D, immune response and infection. He described several cellular and molecular targets of vitamin D in the immune system that have been recently suggested. Importantly, he showed the sparse data on the clinical associations between serum vitamin D levels and the incidence/severity of many immune-regulated disorders (e.g. infectious diseases, cancers and autoimmunity). He explained that these studies have led to claims that vitamin D supplementation may improve outcomes in these chronic diseases but for most of them, a direct causality has not been established.

In close relation with this lecture, the topic of vitamin D was the subject of many communications. Amongst them, the talk on the standardisation of vitamin D measurement was of prime importance (OC 18). The authors stated that what constitutes "vitamin D inadequacy" is unclear. Resolving this situation requires firstly excellence in measurement of serum total 25-hydroxyvitamin D [25(OH) D], the recognized standard for defining an individual's vitamin D status. Indeed, failure to standardize 25(OH)D measurement precludes developing consensus cut-points to define vitamin D status. The authors of the paper presented the Vitamin D Standardization Program (VDSP) that has the objective to develop a reference measurement system to standardize current and future research by use of 25(OH)D assays traceable to these standards. In a more clinical field, data from the MADIVOS study was also presented yesterday (OC19). MAVIDOS is a randomised double-blind placebo-controlled trial of 1000 IU/day cholecalciferol from 14 weeks gestation until delivery in women with a baseline 25(OH)D between 25 and 100nmol/l. At 14

and 34 weeks gestation, maternal anthropometry (height, weight, skinfold thickness), health and lifestyle were assessed and 25(OH) D measured. The authors showed that women who gain more weight during pregnancy have lower 25(OH)D in early pregnancy and those who deliver in winter achieve a lower 25(OH) D when supplemented with 1000 IU/day cholecalciferol.

The second part of the morning session yesterday was fully dedicated to muscle. In the field of sarcopenia, it has already been shown that its prevalence is dependant of its definition. Oliver Ethen and colleagues showed that using the definition providing the lowest prevalence estimates, the number of individuals with sarcopenia would rise in Europe from 10,869,527 in 2016 to 18,735,173 in 2045 (a 72.4% increase) (OC24). This corresponds to an overall prevalence of sarcopenia in the elderly rising from 11.1% in 2016 to 12.9% in 2045. In another study that aimed to examine the associations of the different sarcopenia definitions with incident disability, 1818 non-disabled men and women of the Health, Aging, and Body Composition Study were followed (OC25). The results suggest that slow gait speed alone is clinically useful to identify older persons at risk of developing disabilities. Adding additional parameters such as low muscle mass or strength seems of little value. In another longitudinal study involving 8069 participants aged 50-64 years from England, the authors found that self-reported impaired muscle strength/function is highly significantly associated with job loss before the traditional age of retirement (OC27). This is an important new finding which offers opportunity to identify people at risk of job loss early and potentially develop interventions that might enhance work participation. Not least, a study conducted in nursing homes



Pr. Cyrus Cooper

highlighted that over a third of nursing home residents are sarcopenic and the percentage is almost 50% among frail individuals (OC 28). As expected, in this study, sarcopenic men and women have lower functional and motor abilities than non-sarcopenic counterparts.

New potential methods to assess muscle function were also presented yesterday. For example, bioelectric impedance spectroscopy (BIS) and creatine (methyl-d3) dilution (D3-C) were found to be associated with muscle function (OC26). In another study, Etienne Cavalier and colleagues calculated the least significant change of new biological markers: myostatin and activin A (i.e. two muscle growth inhibitors) (OC29). The least significant change is important in determining whether a change occurred between two measurements of biomarkers is significant or



The Auditorium 1

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not. The data showed that if this change is not higher than about 40%, a change may only be due to random error and cannot be considered as significant, with a probability of 95%. This information is obviously most useful for the follow-up of patients.

Finally, one other important session of yesterday's meeting was the IOF Committee of the National Societies (CNS) Special Plenary Session on the important topic from

a public health point of view: "Advances in Bone, Muscle and Joint Health". Interestingly, during this session, a lot of time was devoted to short but intensive presentation of study results from different member societies.

Today, you will also have the privilege, during oral or poster communications, to learn from scientists about the clinical management of various musculoskeletal diseases, health economics and risk factors for fracture.

as well as non-invasive assessments of bone strength and fracture risk. His experience in the field has been of great value to the International Osteoporosis Foundation and to the greater osteoporosis community as a whole."

## IOF MEDAL OF ACHIEVEMENT 2016

The IOF Medal of Achievement honours an individual who has made a significant and unstinting contribution to the advancement of the work of the IOF, through furthering one or more of the mission statements and/or goals of the Foundation. The winner of this prestigious award is Professor Eugene McCloskey. The award ceremony was held yesterday, during the plenary session of the congress.

Professor McCloskey developed his long-standing interest in metabolic bone diseases via an MRC Training Fellowship. His initial interests were in the field of malignant bone disease, but subsequently focused on osteoporosis. He has been the principal investigator in

a number of MRC and pharmaceutical industry-funded studies. He has published over 250 peer-reviewed articles, book chapters, guidelines, and reviews. He is currently President of the Bone Research Society, Sheffield Director of the Centre for Integrated research in Musculoskeletal Ageing and a member of the UK National Specialty Group for Musculoskeletal Diseases. He is also chair of the Implementation Committee of the National Osteoporosis Guidance Group.

Professor Cyrus Cooper, when presenting the Award, stated, "Professor McCloskey is an acknowledged expert in the fields of vertebral fracture definition, osteoporosis epidemiology



Pr. Eugene McCloskey & Pr. Cyrus Cooper

## ESCEO-AgNovos Healthcare YOUNG INVESTIGATOR AWARDS 2016



The ESCEO-AgNovos Healthcare Young Investigator Awards

For the first time, ESCEO has the pleasure to inform you that the individuals listed below have been selected for the ESCEO-AgNovos Healthcare Young Investigator Awards. They have been carefully chosen based on the quality of their abstract related to bone strength, bone

quality, falls risk, primary or secondary fracture prevention or multi-disciplinary post-fracture care.

The young investigators are: Bala Yohann, Curtis Beth, D'Angelo Stefania, Dukelow Tim, Falcinelli Cristina, Fitzgerald Gillian,

Hawley Samuel, Ho Angela, Laurent Michael, Lavet Cedric, Liu Jin, Locquet Médéa, Marcucci Gemma, Parsons Camille, Rodriguez Alexander Joseph, Romagnoli Cecilia, Scott David, Verroken Charlotte, Vom Scheidt Annika, and Wong Andy.

## IOF COMMITTEE OF NATIONAL SOCIETIES MEDAL

The IOF Committee of National Societies Medal is a new award that honours an individual who has made an important contribution to the IOFs Committee of National Societies (CNS) through active participation in CNS activities and by expanding IOF's message and outreach in his/her country.

The CNS, comprising more than 200 patient and medical societies, is IOF's core membership committee. As a group it forms the world's largest single network of national organizations dedicated to osteoporosis and musculoskeletal disorders. CNS societies are run by committed individuals who - often

as volunteers - do invaluable work in raising public awareness and improving patient care at the national level. Their grassroots efforts in implementing IOF information campaigns locally have helped spread key prevention messages around the world.

This IOF CNS Medal has been awarded to Doctor Elias Saba. Dr Elias Saba is the Director of Rehabilitation Services at Bethlehem Arab Society for Rehabilitation and the IOF representative of the Palestinian Osteoporosis Prevention Society (POPS).



IOF CNS Medal winner

## IOF OLOF JOHNNELL SCIENCE AWARD 2016

The Olof Johnell Science Award, named in honour of the late Professor Olof Johnell, was presented for the first time at the 2013 European Congress on Osteoporosis and Osteoarthritis (ESCEO13-IOF), in Rome, Italy. This Award honours an individual who has contributed to the field of osteoporosis in a scientific or policy implementation area, worldwide.

This year, the Award is given to Professor Serge Ferrari. Serge Ferrari graduated from the Geneva Faculty of medicine in 1989, and has been research and clinical fellow, and Instructor in medicine at Harvard Medical School in 1997-2001. He has received a professorship from the Swiss national science foundation in 2001 for his work on the mechanisms of action of PTH, and he is currently Professor

of Medicine at the Geneva faculty of medicine and the head of the Clinical Service and research laboratory on bone diseases at the Geneva university hospital. His work on the molecular mechanisms and pharmacology of bone remodelling as well as on the structural and genetic determinants of osteoporosis has appeared in more than 200 articles.

## 2016 IOF-ESCEO PIERRE MEUNIER YOUNG SCIENTIST AWARDS

Today, Professors Elaine Dennison and Olivier Bruyère will be presented winners of the two IOF-ESCEO 2016 Pierre Meunier Young Scientist Awards. These awards recognize the contribution to the field of musculoskeletal diseases of young scientists who have shown their ability to perform top-quality research and are expected to become key opinion leaders in the coming years.

Professor Elaine Dennison is Professor of Musculoskeletal Epidemiology and Honorary Consultant in Rheumatology within Medicine at the University of Southampton. Having

worked as a Principal Investigator of the Hertfordshire Cohort Study for many years, her research interest centres on musculoskeletal aging, specifically osteoporosis and osteoarthritis. Based at the MRC Lifecourse Epidemiology Unit, she is particularly interested in how events early in life interact with adult lifestyle factors to determine how we age. Professor Dennison is author of over 150 journal articles on this subject.

Professor Olivier Bruyère is currently Professor of Clinical Epidemiology in the Department of Public Health, Epidemiology and Health Economics and of Geriatric

Rehabilitation in the Department of Sport Sciences of the University of Liège in Belgium. His main fields of interest are prevention, rehabilitation and pharmaco-epidemiology related to geriatric or rheumatic conditions. Besides being Editor-in-chief of the journal "The Archives of Public Health", he is Associate Editor of the journal "BMC Musculoskeletal Disorders" as well as on the editorial board of various journals. He is author of more than 200 international scientific publications and book chapters.

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March 23<sup>rd</sup> - 26<sup>th</sup>, 2017

WORLD CONGRESS ON OSTEOPOROSIS, OSTEOARTHRITIS AND MUSCULOSKELETAL DISEASES