

**27TH ANNUAL MEETING OF THE
DUTCH SOCIETY FOR
CALCIUM AND BONE METABOLISM**

Zeist, the Netherlands
November 8-9, 2017



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27TH ANNUAL MEETING OF THE DUTCH SOCIETY FOR CALCIUM AND BONE METABOLISM

November 8-9, 2017

Woudschoten Conference Centre

Woudenbergseweg 54, Zeist

The Netherlands

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DUTCH SOCIETY FOR CALCIUM AND BONE METABOLISM

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PROGRAM

9.00-10.00 *Registration and coffee*

10.00-10.10 *Opening by Carola Zillikens (Chair NVCB)*

SESSION I: Selected abstracts

Chair: Rachida Rafiq & Kerensa Beekman

10.10-10.20 Genetic risk factors for atypical femur fractures *p.10*
Denise van de Laarschot (Erasmus MC)

10.20-10.30 Trabecular bone score and hip structural analysis in patients *p.10*
with atypical femur fractures
Denise van de Laarschot (Erasmus MC)

10.30-10.40 Mortality after a recent clinical fracture before and after the *p.11*
introduction of a Fracture Liaison Service
Caroline E Weyers (MUMC & Hasselt)

10.40-10.50 Genome-Wide Association Study Identifies Three Novel *p.11*
Genetic Determinants of Dental Maturation
Olja Grgic (Erasmus MC)

10.50-11.00 Characterization of dormant cells in bone metastases *p.13*
Marjolein van Driel (Erasmus MC)

11.00-11.10 *Enterococcus faecium* abundance in gut microbiome is *p.12*
associated with higher bone mineral density in school age
children
C. Medina Gomez (Erasmus MC)

11.10-11.20 High imminent vertebral fracture risk in smokers and COPD *p.13*
patients with a prevalent or incident vertebral fracture
Mayke van Dort (MUMC)

11:20-11:30 Development of a modular microfluidic Joint-on-a-Chip *p.12*
platform for reliable in vitro modelling of the human joint
Astrid Bakker (ACTA)

11.30-12.15 **Key-note lecture:**
Bone biology update
Bram van der Eerden, PhD
Erasmus MC Rotterdam, The Netherlands

12.15-13.30 *Lunch*

SESSION II: Rare bone diseases I

Chair: Olga Grgic & Joëlle Klazen

13:30-13:40	Fracture risk after discontinuation of Denosumab therapy <i>Esther Donga (ETZ Tilburg)</i>	<i>p. 13</i>
13:40-13:50	Tissue Engineering approaches in the design of normal and osteoporotic in vitro bone models <i>Silvia Caddeo (ACTA / Politecnico di Torino)</i>	<i>p. 14</i>
13:50-14:00	Long term follow-up of fracture incidence and fracture trends between 1989 and 2012 in a population based cohort: The Rotterdam Study <i>Katerina Trajanoska (Erasmus MC)</i>	<i>p. 14</i>
14:00-14:10	Association Of Vitamin D Status With Pulmonary Function: Potential Mediation By Inflammation And Physical Function. <i>Rachida Rafiq (Vumc)</i>	<i>p.23</i>
14:10-14:20	Type 2 Diabetes Is Associated With Lower Prevalence Of Vertebral Fractures: A Meta-Analysis of Prospective Studies <i>Fjorda Koromani (Erasmus MC)</i>	<i>p. 15</i>
14:20-13:30	Passive Coping Strategies Are Associated With Higher Impairment In Quality Of Life In Patients With Fibrous Dysplasia <i>Marlous Rotman (LUMC)</i>	<i>p. 16</i>
14:30-14:40	Osteogenic and osteoclastogenic potential of jaw bone-, periodontal ligament-, and gingiva-derived cells <i>Teun de Vries (ACTA)</i>	<i>p. 16</i>
14:40-14:50	[18F] NaF PET: A good modality for recognizing chronic disease in Fibrodysplasia Ossificans Progressiva <i>Esmée Botman (Vumc)</i>	<i>p. 17</i>
14:50-15:00	Activin-A inhibits osteoclast formation in fibrodysplasia ossificans progressiva <i>Ton Schoenmaker (ACTA)</i>	<i>p. 17</i>
15.00-15:30	Coffee/tea break	
15:30-15:40	Familial Paget's disease of bone: Long-term follow-up of index families in The Netherlands <i>Joséphine Peeters (LUMC)</i>	<i>p. 18</i>
15:50-15:50	An unexpected cause of fracture in a patient with multiple myeloma <i>Sandrine Bours (MUMC)</i>	<i>p. 18</i>

- 15:50-16:40 Key-note lecture:**
Hypoparathyroidism
Carola Zillikens, MD PhD
Erasmus MC Rotterdam, The Netherlands
- 16:40-16:50 Cell surface glycoprotein CD24 mark bone marrow derived hMSCs with reduced proliferation and differentiation in vitro *p.19*
Jeroen van de Peppel (Erasmus MC)
- 16:50-17:00 IL-4 significantly Inhibits Osteogenic Differentiation of Human Adipose Stem Cells under Hypoxia *p.19*
Angela Bastidas-Coral (ACTA)
- 17.15-18.15 *Drinks***
- 18.15-20.00 *Dinner***
- 20.00-21.00 *Business meeting***

07.30-09.00 *Breakfast*

08.00-09.00 *Registration*

SESSION III: Rare bone diseases II

Chair: Marlous Rotman & Irma de Bruin

9:00-9:10 Standard screening for celiac disease in an FLS population is not recommended p.20
Irma de Bruin (MUMC/VieCurie)

9:10-9:20 Severe adult Osteogenesis Imperfecta presentation in a family with a novel CREB3L1 mutation p.20
Dimitra Micha (VUMC)

9:20-10:10 **Key-note lecture:**
 Osteogenesis Imperfecta: a clinical update
Anton Franken, MD PhD
 Isala Klinieken Zwolle, The Netherlands

10:10-10:20 The effect of lacunar shape on the osteocyte mechanoresponse p.21
Cor Semeins (ACTA)

10:20-10:30 The effect of PPAR γ inhibition on marrow adipose tissue and bone in C3H/HeJ mice. p.21
Kerensa Beekman (Vumc)

10.30-11.00 **Coffee/tea break**

11.00-11.10 Association of different fat deposits with 25-hydroxyvitamin D Concentrations p.22
Rachida Rafiq (Vumc)

11.10-11.20 Looking deeper: Rare causes of osteoporosis and fractures p.22
Carola Zillikens (Erasmus MC)

11.20-12.10 **Key-note lecture:** p.23
 Hypophosphatasia
Michaël Laurent, MD PhD
 KU Leuven, Belgium

12.10-12.20 The Association Between Renal Function, Osteoporosis and Fracture Risk in the Longitudinal Aging Study Amsterdam p.15
Hailing Chen, Renate de Jongh (Beijing / Vumc)

12.30-12.30 Mechanisms of vitamin D action in bone metastasis p.24
Joëlle Klazen (Erasmus MC)

12.30-13.30 **Lunch**

SESSION IV Rare bone diseases III

Chair: Angela Bastidas-Coral

- 13.30-13.40 Changes in vitamin D Binding Protein, Total, Bioavailable, and FreeSerum 25-hydroxyvitamin D in transgender Persons during Cross-Sex Hormonal treatment p.24
Paul Lips (VUMC)
- 13.40-13.50 A Randomized, Open-label Phase 2 Study of Burosumab, an Investigational Fully Human Anti-FGF23 Monoclonal Antibody in children with X-linked Hypophosphatemia p.25
Annemieke Boot (UMCG)
- 13.50-14.40** **Key-note lecture:**
The Clinical and Genetic Spectrum of Hypophosphatemic Rickets
Outi Mäkitie, MD PhD
University of Helsinki and Helsinki University Hospital, Finland
- 14.40-14.50 Systematic screening for environmental and behavioral determinants identifies factors detrimental to skeletal health p.25
Ling Oei (Erasmus MC)
- 14.50-15:00 The effect of a screening and treatment program in primary care on the prevention of fractures in older women: the SALT Osteoporosis Study, a randomized pragmatic trial p.26
Thomas Merlijn, Karin Swart (Vumc)
- 15:00-15.20** **Coffee/tea break**
- 15.20-15.35** **Awards**
- 15.35-15:45** **Adjournment**