



**31<sup>TH</sup> ANNUAL MEETING OF THE  
DUTCH SOCIETY FOR  
CALCIUM AND BONE METABOLISM**

November 11-12 November 2021

*SPONSORS*





# **31<sup>TH</sup> ANNUAL MEETING OF THE DUTCH SOCIETY FOR CALCIUM AND BONE METABOLISM**

## ***Organisation***

Natasha Appelman-Dijkstra, President  
Jeroen van de Peppel, Secretary  
Nathalie Bravenboer, Treasurer  
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09.30-10.00 Registration with Coffee/Tea

**SESSION I:**

Chair:

10:00-10:10	Opening by chair: <b>Natasha Appelman-Dijkstra</b>
<p>10:10-11:10 5 Orals (8 +2 min each)</p> <p>2 Pitches (4 +1 min each)</p>	<p><b>#O1 The Effect of Gender Affirming Hormone Therapy on Calcium-phosphate Homeostasis in Transgender Persons.</b> Renate de Jongh - Amsterdam UMC</p> <p><b>#O2 Periosteal Decellularized Extracellular Matrix-based Electrospun Biomimetic Periosteum to Repair a Critical-sized Bone Defect.</b> Shuyi Li - Amsterdam UMC / ACTA</p> <p><b>#O3 Bone Mass Does Not Increase in Van Buchem's Disease during Long Term Follow-Up.</b> Merve Avci - LUMC</p> <p><b>#O4 A Three-Dimensional Mechanical Loading Model of Human Osteocytes in Their Native Matrix</b> Chen Zhang - Amsterdam UMC / ACTA</p> <p><b>#O5 Skin Autofluorescence, a Non-Invasive Biomarker of Advanced Glycation End-Products (AGEs), is Associated with Frailty: The Rotterdam study</b> Komal Waqas - Erasmus MC</p> <p><b>#P1 Effect of Flavanols on Bone Turnover Markers in Individuals with Type 2 Diabetes – a 3-Month Randomized Placebo-Controlled FLAVA Trial</b> Komal Waqas - Erasmus MC</p> <p><b>#P2 Jaw Related Functional Restrictions in Fibrodysplasia Ossificans Progressiva (FOP): A Systematic Review</b> Ton Schoenmaker - Amsterdam UMC / ACTA</p>
11:10-11:40	<i>Coffee/tea break</i>
11.40-12.30 (40min+10min)	<p><b>Key-note lecture</b> <b>Treatment with anti-sclerostin antibodies in both osteoporosis as well as Osteogenesis Imperfecta</b> Prof. Dr. Bente L. Langdahl, Aarhus University, Aarhus, Denmark</p>
12.30-13.30	<i>Lunch break</i>

## SESSION II: Mini Symposium sponsored by Kyowa Kirin

Chair:

<b>13:30-14:40</b> <b>2 Long Orals</b> (20+5min each)	<b>FGF23 regulation: from osteocyte cell lines to multi-omics</b> Dr. Bram van der Eerden, Erasmus MC, Rotterdam, the Netherlands
<b>2 Orals</b> (8 +2 min each)	<b>Growth pattern in children with X-linked hypophosphatemia treated with Burosumab and growth hormone</b> Dr. Alexandra Ertl , Medical University of Vienna, Austria
	<b>#O6 Local Osteocyte-synthesized 1,25(OH)2D3 Stimulates Fibroblast Growth Factor 23</b> Danielle Ratsma - Erasmus MC
	<b>#O7 Genetic Evidence for a Causal Role of Serum Phosphate in Coronary Artery Calcification: The Rotterdam Study</b> Ariadne Bosman - Erasmus MC

## SESSION III:

Chair:

<b>14:40-15:00</b> <b>4 pitches</b> (4+1 min each)	<b>#P3 Antibacterial and Osteoinductive Resorbable MgONPs/PTH Coaxial electrospinning Barrier Membrane for Guided Bone Regeneration</b> Yiwen Dong - Amsterdam UMC / ACTA
	<b>#P4 Hyaluronic Acid Improves the Performance of GelMA Scaffold Designed for Bone Tissue Engineering Applications</b> Lei Wang - Amsterdam UMC / ACTA
	<b>#P5 Multidisciplinary Structural Care Improves Quality of Life and Pain Interference in Patients with Fibrous Dysplasia/McCune-Albright Syndrome: a Multicenter Prospective Observational Study</b> Maartje E. Meier - LUMC
	<b>#P6 Osteoblasts Derived from Human Fibroblasts via Induced Mesenchymal Stem Cells as a Potential Cell Model for Osteogenesis Imperfecta.</b> Lauria Claeys - Amsterdam UMC
<b>15.00-15:30</b>	<b>Coffee/tea break</b>
<b>15:30-16:20</b> <b>4 Orals</b> (8+2 min each)	<b>#O8 What Happens After Discontinuation of Osteoporosis Drug-treatment?</b> Willem Lems - Amsterdam UMC
	<b>#O9 Generation of a Crouzon (FGFR2C342Y) Syndrome cell line using prime-editing and characterization of Craniosynostosis patient-specific hiPSCs</b> Max Gijsbertsen - Erasmus MC

<p>2 Pitches (4+1 min each)</p>	<p><b>#O10 The Effect of Sex Steroids on Bone Marrow Fat in Transgender Persons</b> Marieke Tebbens - Amsterdam UMC</p> <p><b>#O11 Antiresorptive therapies following romosozumab to achieve bone mineral density target for optimal fracture risk reduction</b> Annegreet Vlug - Jan van Goyen MC / LUMC</p> <p><b>#P7 Diabetes Medication Metformin Inhibits Osteoclast Formation and Activity in <i>in vitro</i> Models for Periodontitis</b> Teun J. de Vries - ACTA</p> <p><b>#P8 Ocular Characteristics and Complications in Patients with Osteogenesis Imperfecta, A Systematic Review</b> Sanne Treurniet - Amsterdam UMC</p>
<p>16:30-17:30</p>	<p><b>Keynote Lecture</b> <b>André Kuipers</b></p>
<p>17:30 - 18.30</p>	<p>Drinks</p>
<p>18.30 - 21.00</p>	<p>Dinner</p>



08.15-08.45 **Start (ONTBIJT tijden)**

08:45-10:00	General Assembly NVCB
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**SESSION IV:**

Chair:

<p><b>10:00-10:40</b>  <b>8 Pitches</b>                  (4+1 min each)</p>	<p><b>#P9 Type 2 Diabetes Clusters Indicate Diabetes Duration Key in Fracture Risk</b>                  Samuel Ghatan - Erasmus MC</p> <p><b>#P10 Comparison of Decellularized Cow and Human Bone for Engineering Bone Grafts with Human Induced Pluripotent Stem Cells</b>                  Jiayi Cheng - Amsterdam UMC / ACTA</p> <p><b>#P11 Prevalence of Monogenic Bone Disorders in a Dutch Cohort of AFF Patients</b>                  Wei Zhou - Erasmus MC</p> <p><b>#P12 A Dens Fracture Case Solved</b>                  Jiawei Li - Erasmus MC</p> <p><b>#P13 Tensin-3 Oppositely Regulates Bone Mesenchymal Stromal Cell-Derived Osteogenesis and Adipocytes</b>                  Bram van der Eerden - Erasmus MC</p> <p><b>#P14 A Recessive P3H1 (LEPRE1) Pathogenic Variant Shared by a Cohort of Vietnamese Osteogenesis Imperfecta type VIII Patients with Variable Phenotypes</b>                  Lidiia Zhytnik - Amsterdam UMC</p> <p><b>#P15 Homeodomain Transcription Factor MEIS1 as a Novel Player Regulating hMSC-TERTs Osteogenic Differentiation</b>                  Yuan Guo - Erasmus MC</p> <p><b>#P16 Vascular Calcification and Osteoporosis: Confounded Associations or Shared Biologic Pathways?</b>                  Haojie Lu - Erasmus MC</p>
<p><b>10:40-11:10</b></p>	<p><i>Coffee/tea break</i></p>
<p><b>11:10-11:50</b>  <b>6 Orals</b>                  (8+2 min each)</p>	<p><b>#O12 Clinical Presentation and Treatment of Sternocostoclavicular Hyperostosis (SCCH): a Systematic Review and Meta-analysis of Scattered Evidence</b>                  Anne Leerling - LUMC</p>

<p>4 Pitches (4+1 min each)</p>	<p><b>#O13</b> Detection of the mosaic pattern of a Post-Zygotic activating GNAS Mutation in a patient with Fibrous Dysplasia. Jorien Langstraat - Amsterdam UMC</p> <p><b>#O14</b> Individualized Osteoporosis Management Antoon van Lierop - Flevoziekenhuis</p> <p><b>#O15</b> Men with COPD have Increased Risk of Vertebral Fractures Independent of Smoking: A Prospective Cohort Study Fjorda Koromani - Erasmus MC</p> <p><b>#O16</b> Mandibular Cortical Width is Associated to Bone Mineral Density in Adolescents Vid Prijatelj - Erasmus MC</p> <p><b>#O17</b> The European Registry for Rare Bone and Mineral Conditions (EuRR-Bone): the Use of an e-Reporting Tool for Registering Bone and Mineral Conditions Ana Luisa Priego Zurita - LUMC</p> <p><b>#P17</b> The European Registries for Rare Bone and Mineral Conditions (EuRR-Bone) and Rare Endocrine Conditions (EuRRECa): Developing Condition Specific Modules Ana Luisa Priego Zurita - LUMC</p> <p><b>#P18</b> Practice Variation in the Treatment of Patients with Renal Hyper-Parathyroidism: a Survey-Based Study in the Netherlands Jaimie Zhang - LUMC</p> <p><b>#P19</b> Phenotypic Characteristics of a Dutch Cohort of Patients with X-linked Osteoporosis Based on PLS3 Mutation Zografia Zervou - Erasmus MC</p> <p><b>#P20</b> Activin-A Induces Substantial Transcriptomic Differences in Both Healthy Control and Fibrodysplasia Ossificans Progressiva Osteoclasts Joy Zwaak - Amsterdam UMC / ACTA</p>
<p><b>12:30-13:30</b></p>	<p><i>Lunch break</i></p>

## SESSION V

Chair:

<p><b>13.30-14:00</b> 3 Orals (8+2 min each)</p>	<p><b>#O18 An Unusual Presentation of Heterotopic Ossification after Intensive Care Hospitalization for Covid-19 Pneumonia</b> Oana O. Danila - LUMC</p> <p><b>#O19 Can Biomimetic Calcium Phosphate Coatings in the Presence and Absence of BSA Improve the Osteoconductivity of Mini-screw Implants?</b> Menghong Li - Amsterdam UMC / ACTA</p> <p><b>#O20 Cell seeding density is a driving force towards cell lineage commitment during Neural Crest Stem cell induction</b> Filipa M. Duarte - Erasmus MC</p>
<p><b>14:00-14.50</b> (40min+10min)</p>	<p><b>Key-note lecture</b> <b>Title: Skeletal stem and progenitor cells driving bone growth, homeostasis and repair</b> Dr. Christa Maes, KU Leuven, Belgium</p>
<p><b>14:50-15.10</b></p>	<p><b>Awards</b> Presentation Award sponsored by <b>Curaphar</b> Thesis Award sponsored by <b>Kyowa Kirin</b></p>
<p><b>15:10</b></p>	<p><b>END</b></p>