



**32TH ANNUAL MEETING OF THE
DUTCH SOCIETY FOR
CALCIUM AND BONE METABOLISM**

November 10-11 November 2022

SPONSORS





32ND 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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Venue:

Woudschoten Hotel & Conferentiecentrum
Woudenbergsesweg 54
3707 HX Zeist

[Directions](#)



09.30-10.00	Registration with Coffee/Tea	Foyer Woudvleugel
10:00-10:10	Opening: Natasha Appelman-Dijkstra	Room 29

SESSION I

Chairs: Lauria Claeys & Danielle Ratsma

Room 29

10:10-11:20 7 Orals (8 +2 min each)	<u>O1 Xinpeng He</u> Exposome-wide association study (XWAS) of bone mineral densities and environmental pollutants in NHANES from 1999-2010	
	<u>O2 Artemis Gkitakou</u> The association of sleep, physical activity, and bone parameters: findings from the Rotterdam Study	
	<u>O3 Jiawei Li</u> Physical Activity and Sarcopenia – Cross-sectional Research in the Rotterdam Study	
	<u>O4 Anne Leerling</u> Diagnostic and therapeutic landscape of adult chronic nonbacterial osteomyelitis (CNO/SCCH): results from a first international physician survey	
	<u>O5 Anne Leerling</u> Adult chronic nonbacterial osteomyelitis of the sternocostoclavicular region (CNO/SCCH): an auto-inflammatory disease?	
	<u>O6 Evert F.S. van Velsen</u> Radiofrequency Ablation for Treating Tumor Induced Osteomalacia: A Patient Case	
	<u>O7 Ineke Jansen</u> Real-time quantification of osteoclastic resorptive activity by Electric Cell-substrate Impedance Sensing.	
11:20-11:45	Coffee/tea break	Foyer Woudvleugel
11.45-12.30	Kyowa Kirin Sponsored Lecture Prof. dr. Claire Bardet, Université de Paris New data on animal models and enthesopathies and the new treatments (35 min + 10 min)	Chair: Natasha Appelman-Dijkstra
12.30-13.30	Lunch	Atrium restaurant

PhD Thesis Presentation

Chair: Nathalie Bravenboer

Room 29

13:30-13:50 15min+5	Dr. Ton Schoenmaker Osteoclast formation in Fibrodysplasia Ossificans Progressiva
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SESSION II

Chair: Anne Leerling & Vid Prijatelj

Room 29

13:50-14:30 4 Orals (8 +2 min each)	<u>O8 Sara Verdonk</u> Cardiovascular characteristics and abnormalities in patients with Osteogenesis Imperfecta: a systematic review <u>O9 Silvia Storoni</u> Altered Collagen Type I May Cause Premature Pulmonary Embryonic Differentiation Causing Lung Hypoplasia In Patients With Osteogenesis Imperfecta type II <u>O10 Lauria Claeys</u> Osteoblasts derived from human fibroblasts via induced mesenchymal stem cells as a potential cell model for Osteogenesis Imperfecta. <u>O11 Lidiia Zhytnik</u> Gene expression signatures in bone, heart and skin tissue of a Col1a1+/Mov13 mice identify it as a challenging animal model for mild Osteogenesis Imperfecta.
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14:30-15:00	Coffee/tea break	<i>Foyer Woudvleugel</i>
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Keynote Lecture I

Chair: Jeroen van de Peppel

Room 29

15:00-15:50 (40 +10 min)	Clinical view on bone disorders and the link to fundamental research Prof. Dr. Irene Mathijssen
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SESSION III

Chairs: Jorien Langstraat & Annelies Smit

Room 29

15:50-16:40 5 Orals (8 +2 min each)	<u>O12 Carolina Medina-Gomez</u> Novel skull bone mineral density loci portray pleiotropic effects on craniosynostosis
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	<p><u>O13 Max Gijsbertsen</u> Where CRISPR can't reach: A precision approach to generate Craniosynostosis in vitro disease models and perform genomic corrections in patient hiPSCs using prime editing</p> <p><u>O14 Filipa M. Duarte</u> Investigating the role of the ciliogenic gene FUZ in Craniosynostosis.</p> <p><u>O15 Xianjing Liu</u> Analysis of the facial asymmetry in patients with coronal craniosynostosis syndromes by using 3D stereophotogrammetry</p> <p><u>O16 Vid Prijatelj</u> Dental Caries of Deciduous Dentition: A Biomarker of Skeletal Health?</p>
16:40-17:00	Coffee/tea break <i>Foyer Woudvleugel</i>

Keynote Lecture II

Chair: *Nathalie Bravenboer*

Room 29

17:00-18:00 (40 +10 min)	Osteoarcheology Dr. Rachel Schats
18:30 -	Dinner <i>KNVB Topsportcentrum</i>

Friday, November 11, 2022



07:00 - 09:30 **Breakfast** *Atrium restaurant*

08:45 - 09:45 **General Assembly NVCB** *Room 29*

9:45-10:00 **Coffee/tea break** *Foyer Woudvleugel*

Chair: Jeroen van de Peppel

10:00-10:20 **Prof Dr. Fernando Rivadeneira**
(15 + 5 min) GEMSTONE/LEGENDARE/IFMRS and Beyond.....

SESSION IV

Chairs: Ana Luisa Priego Zurita & Silvia Storoni

Room 29

made possible by a donation of Amgen & UCB

10:20-11:00 6 Orals (8 +2 min each)	<u>O17 Wei Zhou</u> Gene burden testing of a large patient cohort identifies potential gene candidates for atypical femur fractures <u>O18 Antonios Emmanouilidis</u> Whole exome sequencing in a bisphosphonate-naïve family with atypical femur fractures and fragility fractures <u>O19 Samuel Ghatan</u> Bidirectional relationship between bone mineral density and type 2 diabetes risk: multivariable Mendelian randomisation & genetic colocalisation study <u>O20 Kevin Ocran</u> Evaluation of factors associated with fractures after liver and kidney transplantation
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11:00-11:20 **Coffee/tea break** *Foyer Woudvleugel*

SESSION V

Chairs: Max Gijsbertsen & Sara Verdonk

Room 29

11:20-12:00 4 Orals (8 +2 min each)	<u>O21 Ariadne Bosman</u> Disease manifestations and complications in Dutch X-linked hypophosphatemia patients <u>O22 Ariadne Bosman</u> Hypophosphatemia with elevated C-terminal FGF23 but normal intact FGF23 in iron deficiency: a case report
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	<p><u>O23 Zografia Zervou</u> Hypofosfatasia causes peripheral neuropathy due to intracellular depletion or extracellular accumulation of the PLP?</p> <p><u>O24 Danielle Ratsma</u> Transcriptomic differences of osteocytes in response to organic versus inorganic phosphates</p>
12:00-13:00	Lunch <i>Atrium restaurant</i>

SESSION VI

Chair: Wei Zhou & Filipa Duarte

Room 29

<p>13.00-14:00 6 Orals (8 +2 min each)</p>	<p><u>O25 Ana Luisa Priego Zurita</u> The European Registry for Rare Bone and Mineral Conditions (EuRR-Bone): Preparing the Ground for a Fibrous Dysplasia McCune Albright Syndrome Condition-Specific Module</p> <p><u>O26 Natasha Appelman-Dijkstra</u> Prevalence, Natural History, Risk Factors and Surgical Outcomes of Coxa Vara Deformity in Fibrous Dysplasia/McCune-Albright Syndrome</p> <p><u>O27 Jorien Langstraat</u> Suitability of skin cells for development of a human bone model representing the McCune-Albright Syndrome (MAS)</p> <p><u>O28 Annelies E. Smit</u> A diurnal trough in glucocorticoid signalling is critical for bone health</p> <p><u>O29 Chen Zhang</u> Osteocyte Mechanoresponsiveness in Osteogenesis Imperfecta</p> <p><u>O30 Ruolin Li</u> Metabolic profile mediates the association between gut microbiome and musculoskeletal health in pre-adolescents population: the Generation R study</p>
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Keynote Lecture III

Chair: Natasha Appelman-Dijkstra

Room 29

<p>14:00-14:50 (40 +10 min)</p>	<p>Prof Dr. Wim van Hul The pathogenic mechanisms underlying high bone mass disorders</p>
<p>14:50-15.10</p>	<p>Awards & Closing</p> <ul style="list-style-type: none"> - Presentation Award sponsored by Curaphar - Paper Award sponsored by Kyowa Kirin <p>Adjourn</p>