



COST Action CA18139

GEMSTONEGenomics of Musculoskeletal
Traits Translational NetworkEUROPEAN COOPERATION
IN SCIENCE & TECHNOLOGY**GEMSTONE GP4 Annual Meeting Program****2-3 October 2023, Zeist, Netherlands**Woudschoten Hotel & Conferentiecentrum or [Virtually](#)

Monday 02.10.2023		
09.40-10.00	Coffee and Registration	
Welcoming session Chair: Prof Evangelia Ntzani, Greece		
10.00-10.40	Welcoming and GEMSTONE flashback	Prof Fernando Rivadeneira, Netherlands
10.40-11.20	Glimpse into the future of GEMSTONE: pitch of ideas	
11.20-11.40	Coffee Break	
Roundtable WG6: Translational meeting- the role of patient stakeholders and society Chair: Prof Emma Duncan, United Kingdom and Ines Alves, Portugal		
11.40-12.20	Bedside to bench	Elinor Bouvy-Berends, Netherlands Kim Croskery, United Kingdom
12.20-13.00	Bench to bedside	
13.00-14.00	Lunch	
In memoriam Dr. Vangelis Evangelou GEMSTONE grantee's pitches Chair: Dr. Nerea Alonso, United Kingdom		
14.00-14.10	Mapping expertise and data availability in GEMSTONE	Artemis Gkitakou, Netherlands
14.10-14.20	Facilitators and constrains of phenotype and bio mechanic traits of adults with achondroplasia – a literature search	Ines Alves, Portugal
14.20-14.30	Functional validation of differentially expressed transcripts during osteoblastogenesis and osteoclastogenesis	Elisavet Ioannidou, Greece
14.30-14.40	Functional validation techniques in SGMS2-related osteoporosis using in vitro fibroblast cell lines and an in vivo zebrafish model.	Maria Christou, Greece
14.40-14.50	Establishment of bone metastasis models in TgRANKL mice	Evi Gkikopolou, Greece
14.50-15.00	Standardizing RNA-seq based transcriptome analysis for the identification of bone-related lncRNAs	Dr. Maria Ines Almeida, Portugal
15.00-15.10	Investigating the effect of a novel ASCC1 deletion mutation on human bone fragility	Barbara Voraberger, Austria
15.10-15.30	Coffee break	
Invited talks: Muscle, the forgotten gemstone (Part 1) Chair: Dr. Erika Kague, United Kingdom		
15.30-16.10	Molecular structure and function of skeletal muscle	Dr. Jeroen Molinger, United States
16.10-16.50	Zebra fish models of sarcopenia	Prof David Karasik, Israel
16.50-17.10	Coffee break	
Invited talks: Muscle, the forgotten gemstone (Part 2) Chair: TBA		



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17.10-17.50	Sarcopenia, falls and fractures from a molecular perspective	Prof Gustavo Duque, Canada
17.50-18.30	Deep learning tools for the assessment of sarcopenia	Dr. Ronald Summers, United States
19.00-21.00	Dinner	
Tuesday 03.10.2023		
07.00-08.30	Breakfast & Check out	
The Future of GEMSTONE Chair: Prof Fernando Rivadeneira, Netherlands		
08.30-09.10	GEMSTONE follow up roundtable	Dr. Nerea Alonso, United Kingdom Dr. Kent Soe, Denmark
09.10-09.30	Coffee break	
GEMSTONE grantee's pitches Chair: Dr. Kent Soe, Denmark		
09.30-09.40	Techniques for human bone RNA isolation	Dr. Sjur Reppe, Norway <i>on behalf of</i> Jasna Lojk, Slovenia
09.40-09.50	Role of osteoclasts in chronic liver disease-associated osteoporosis	Dr. Kent Soe, Denmark <i>on behalf of</i> Donatella Semeraro, Austria
09.50-10.00	Exploring Non-Coding RNA as Promising Candidates for Regulating Osteoclasts Activity	Sara Moura, Portugal
10.00-10.10	Assessment of epigenetic effects of teriparatide	Lucija Vrscaj, Slovenia
10.10-10.20	Automating Image Quality Assessment in large Medical Imaging Datasets	Niamh Belton, Ireland
10.20-10.30	Variants in STAT4 and TMEM151B identified as potential causal factors in Early-Onset Familial Osteoporosis	Dr. Melissa Formosa, Malta
10.30-10.40	The genetic overlap between GWAS hits, eQTLs and CRISPRi perturbations	Sam Ghatan, Netherlands
10.40-11.00	Coffee break	
Invited talks: The horizon of innovation and translation Chair: Prof David Karasik, Israel		
11.00-11.40	Nutrigenomics: from molecular to personalized (precision) nutrition	Dr. Lydia Afman, Netherlands
11.40-12.20	Genomics in the deep learning era	Dr. Gennady Roshchupkin, Netherlands
12.20-13.00	From target discovery to clinical drug development with human genetics	Dr. Katerina Trajanoska, Canada
13.00-13.10	Award, closing & photo	
13.10-14.10	Lunch	