SCIENTIFIC PROGRAMME



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MAIN CONGRESS Saturday, 25 May 2024 - p. 10 Sunday, 26 May 2024 - p. 15 Monday, 27 May 2024 - p. 23 Tuesday, 28 May 2024 - p. 30



ECTS 2024 Scientific programme

Pre Congress - Friday, 24 May 2024

"Old Dog with New Tricks"- The interaction of Glucocorticoids on Bone in Rheumatic Diseases

10:30 - 12:30	Samena	
	Chair: Barbara Hauser (United Kingdom)	_
	Chair: Hennie Raterman (Netherlands)	
10:30	Glucocorticoids: key regulators of bone immunometabolism Presenter: Jan Tuckermann (Germany)	
10:50	Discussion	
10:55	Update on the epidemiology of Glucocorticoid-induced osteoporosis in rheumatic diseases Presenter: Giovanni Adami (Italy)	
11:15	Discussion	
11:20	Update on treatment of Glucocorticoid induced osteoporosis Presenter: Maria Yavropoulou (Greece)	
11:40	Discussion	
11:45	P142: Machine learning to characterize bone biomarkers profile in rheumat arthritis Poster Presenter: Giovanni Adami (Italy)	toid
11:52	Discussion	
11:55	P216: Novel Pyrimidine derivative (18a) prevents glucocorticoid induced osteoporosis through upregulation of autophagy and PINK1/PARKIN media mitophagy Poster Presenter: Sonu Khanka (India)	ated
12:02	Discussion	
12:05	General discussion	

Open Forum: New Insights in the Interaction Between Osteoclasts and Their Environment

10:30 - 12:30		Riou
	Chair: Claudine Blin (France)	
	Chair: Kent Søe (Denmark)	
	Chair: Peter Pietschmann (Austria)	
10:30	Different osteoclasts for different functions Presenter: Maria Materozzi (France)	
10:55	Discussion	
11:00	ROS production and oxidative stress in osteoclasts Presenter: Ciro Menale (Italy)	
11:25	Discussion	



11:30	Environment sensing triggers osteoclast differentiation Presenter: Aline Bozec (Germany)
11:55	Discussion
12:00	P086: Identification of a novel osteoclast progenitor cell type with higher multinuclear capacity Poster Presenter: Erika Yamashita (Japan)
12:07	Discussion
12:10	P132: Transcriptomic analysis of coding and non-coding RNAs in modeled osteoporosis Poster Presenter: Elisavet Ioannidou (Greece)
12:17	Discussion
12:20	General discussion

Open Forum: Diabetes and Bone

10:30 - 12:30	Sormiou	
	Chair: Martina Rauner (Germany)	
	Chair: Morten Frost (Denmark)	
10:30	Dietary intervention and its effect on bone and fat metabolism Presenter: Michaela Tencerova (Czech Republic)	
10:55	Discussion	
11:00	Impact of incretins on bone health in diabetes and beyond Presenter: Morten Frost (Denmark)	
11:25	Discussion	
11:30	Bariatric surgery and bone health Presenter: Julien Paccou (France)	
11:55	Discussion	
12:00	P113: In otherwise healthy young men, Trabecular Bone Score (TBS) is significantly lower in case of insulin resistance: an analysis of the SIBLOS sture Poster Presenter: Steven Van Offel (Belgium)	dy
12:08	Discussion	
12:10	P127: The functional and metabolic role of the glycolytic regulator PFKFB3 in skeletal progenitors Poster Presenter: Lore Rosseels (Belgium)	
12:18	Discussion	
12:20	General discussion	



National Day: Bone Health: Aging and Nutrition

10:30 - 12:30

Morgiou

	5
	Chair: Frédéric Verlad (France)
	Martine Cohen-Solal (France)
10:30	Welcome Presenter: Martine Cohen-Solal (France)
10:32	Bone: sword shape of nutrition Presenter: Julien Paccou (France)
11:00	Nutrients: hot topics and new models Presenter: Yohann Wittrant (France)
11:30	Opportunistic detection of osteoporosis: methodological approach and applications Presenter: Thomas Funck-Brentano (France)
12:00	Exercise and falls Presenter: Olivier Gavarry (France)

ECTS Mellanby Training Course: Diagnostic Tests for Osteoporosis: Clinical Use of Bone Turnover Markers

10:30 - 17:30	Pomè	egues
	Chair: Richard Eastell (United Kingdom)	
10:30	Bone Turnover Markers: An introduction Presenter: Richard Eastell (United Kingdom)	
11:00	Bone remodelling and the interpretation of bone turnover marker (BTM) Presenter: Christian Meier (Switzerland)	results
11:30	Practical aspects of measurement and selection of marker Presenter: Pawel Szulc (France)	
12:00	Sources of variability in BTM Presenter: Tatiane Vilaca (United Kingdom)	
12:30	Lunch break	
13:30	Use of BTM in Osteoporosis: shared care protocols in primary care Presenter: Marian Schini (United Kingdom)	
14:00	Parallel Group A: Protocols and case examples for the use of BTM in Osteoporosis practice Presenter: Núria Guañabens (Spain)	
14:00	Parallel Group A: Protocols and case examples for the use of BTM in Osteoporosis practice Presenter: Marian Schini (United Kingdom)	
14:00	Parallel Group B: Using BTM for Osteoporosis treatment: research appl Presenter: Richard Eastell (United Kingdom)	ication
14:00	Parallel Gropu B: Using BTM for Osteoporosis treatment: research appl Presenter: Pawel Szulc (France)	ication

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15:00	Metabolic bone diseases in adults Presenter: Roland Chapurlat (France)
15:30	Break
16:00	Metabolic bone disease of chronic kidney disorder Presenter: Barbara Obermayer-Pietsch (Austria)
16:30	Parallel Group A: Protocols and case examples for the use of BTM in Osteoporosis practice Presenter: Núria Guañabens (Spain)
16:30	Parallel Group A: Protocols and case examples for the use of BTM in Osteoporosis practice Presenter: Marian Schini (United Kingdom)
16:30	Parallel Group C: Using BTM in metabolic bone disease Presenter: Roland Chapurlat (France)
16:30	Parallel Group C: Using BTM in metabolic bone disease Presenter: Barbara Obermayer-Pietsch (Austria)

Lunch break

12:30 - 13:30	Other Areas
12:30 - 13:30	Other Areas

Open Forum: Bone mechanobiology in mice

13:30 - 15:30		Samena
	Chair: Michaela Tencerova (Czech Republic)	
	Chair: Steve Stegen (Belgium)	
13:30	Mechanical loading in cancer mouse models Presenter: Ning Wang (United Kingdom)	
13:55	Discussion	
14:00	Analysing bone composition and mechanical properties of bone Presenter: Mustafa Unal (Turkey)	
14:25	Discussion	
14:30	Mechanomics of bone Presenter: Neashan Mathavan (Switzerland)	
14:55	Discussion	
15:00	P222: Comparative analysis of mechanoregulatory trabecular bone in response to mechanical loading or sclerostin antibody treatmen Poster Presenter: Friederike Schulte (Switzerland)	
15:10	Discussion	
15:15	General discussion	



Open Forum: BMA, Stem Cells and Hematopoietic Interactions within the Bone Marrow Niche

13:30 - 15:30	Riou	
	Chair: Annegreet Vlug (Netherlands)	
	Chair: Bram van der Eerden (Netherlands)	
13:30	A brain-bone signaling axis controls skeletal stem cell dynamics that dictate bone marrow niche composition Presenter: Thomas Ambrosi (United States)	
13:55	Discussion	
14:00	Interaction between bone marrow adipocytes and malignant hematological cel Presenter: Michaela Reagan (United States)	ls
14:25	Discussion	
14:30	Lessons from BMAT plasticity in hematopoiesis Presenter: Olaia Naveiras (Switzerland)	
14:55	Discussion	
15:00	P119: Intermittent fasting supports elevation of alkaline phosphatase activity a adipogenesis of bone marrow mesenchymal stromal cells in middle-aged CBA mice Poster Presenter: Drenka Trivanovic (Serbia)	
15:10	Discussion	
15:15	P147: Exploring the Influence of Bone Marrow Adiposity on Osteoarthritis- Associated Bone Remodeling Poster Presenter: Natalia Zapata Linares (France)	
15:25	Discussion	

Open Forum: Multiscale Imaging and Analytics of Interfaces in Musculoskeletal Health

13:30 - 15:30	Sormiou	
	Chair: Klaus Engelke (Germany)	
	Chair: Björn Busse (Germany)	
13:30	Multiscale synchrotron imaging to study mechanobiology of bone developn Presenter: Isabella Silva Barreto (France)	nent
13:50	Discussion	
13:55	Compositional and molecular analysis of bone tissue using correlative microscopy and spectroscopy techniques Presenter: George Sarau (Germany)	
14:15	Discussion	
14:20	Interface dynamics at bone surfaces: Quantification with micro-CT and elec microscopy Presenter: Praveer Sihota (Germany)	tron
14:40	Discussion	



14:45	Punctional imaging of the human musculoskeletal system with MRI and ultrasound Presenter: Alex Ireland (United Kingdom)
15:05	Discussion
15:10	P180: From 2D to 3D Imaging: 3Dshaper and EOS Edge applications in the Rotterdam study Poster Presenter: Fjorda Koromani (Netherlands)
15:17	Discussion
15:20	P177: Comparisons of Hounsfield units and volumetric bone density in discriminating vertebral fractures on lumber CT scans Poster Presenter: Wenshuang Zhang (China)
15:27	Discussion

National Day: European Consortium

13:30 - 15:30	Morgiou
	Chair: Thomas Funck-Brentano (France)
	Chair: Martine Cohen-Solal (France)
13:30	Fibrous Dysplasia – McCune-Albright Syndrom consortium Presenter: Roland Chapurlat (France)
14:00	Translational research in bone diseases, an European Joint Programme on Ran Diseases Presenter: Justine Bacchetta (France)
14:30	The role of immune osteoclasts in cancer, implication for therapy: the IMMOSCAN Project Presenter: Claudine Blin (France)
15:00	The Ectopic Calcification Network Presenter: Hervé Kempf (France)

ECTS-ISBM Workshop: Nanoscale Imaging of Skeletal Tissues

16:00 - 18:00		Samena
	Chair: Biagio Palmisano (Italy)	
	Chair: Miguel Castilho (Netherlands)	
16:00	Nanoscale organization of bone Presenter: Roland Kroger (United Kingdom)	
16:25	Discussion	
16:30	Electron microscopy of bone and the bone-implant interface Presenter: Furqan Shah (Sweden)	
16:55	Discussion	
17:00	P065: Hematopoietic autophagy defect contributes bone loss Poster Presenter: Ye Yuan (China)	



17:15P094: An automated image pre-processing pipeline to identify lacunar- canalicular networks from FITC-stained confocal microscopy images Poster Presenter: Dilara Yilmaz (Switzerland)17:25Discussion17:30P261: Altered growth plate morphology but normal bone matrix mineralization in the LmnaG609G/G609G mouse model of progeria Poster Presenter: Stéphane Blouin (Austria)17:40Discussion17:45P007: Bone turnover markers and their correlations with parameters of bone quality from HRpQCT measurements of the femoral head Poster Presenter: Ines Foessl (Austria)17:55Discussion	17:10	Discussion
 17:30 P261: Altered growth plate morphology but normal bone matrix mineralization in the LmnaG609G/G609G mouse model of progeria <i>Poster Presenter: Stéphane Blouin (Austria)</i> 17:40 Disucssion 17:45 P007: Bone turnover markers and their correlations with parameters of bone quality from HRpQCT measurements of the femoral head <i>Poster Presenter: Ines Foessl (Austria)</i> 	17:15	canalicular networks from FITC-stained confocal microscopy images
the LmnaG609G/G609G mouse model of progeria Poster Presenter: Stéphane Blouin (Austria) 17:40 Disucssion 17:45 P007: Bone turnover markers and their correlations with parameters of bone quality from HRpQCT measurements of the femoral head Poster Presenter: Ines Foessl (Austria)	17:25	Discussion
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quality from HRpQCT measurements of the femoral head Poster Presenter: Ines FoessI (Austria)	17:40	Disucssion
17:55 Disucssion	17:45	quality from HRpQCT measurements of the femoral head
	17:55	Disucssion

ECTS-CABS Workshop

16:00 - 18:00	Riou
	Chair: Cyrille Confavreux (France)
16:00	Introduction: What is CABS?
16:03	Bone microenvironment control of multiple myeloma evolution and heterogeneous drug resistant disease Presenter: Conor Lynch (United States)
16:23	Discussion
16:26	Intramedullary bone adipocytes and myeloma cells: a fatal support Presenter: Michaela Reagan (United States)
16:46	Discussion
16:49	Mechanical characterisation of bone metastases Presenter: Aurélie Levillain (France)
17:09	Discussion
17:12	Immunity of bone metastases Presenter: Emmanuel Massy (France)
17:32	Discussion
17:35	What is the current real-life epidemiology of bone metastases in France and the use of anti-resorbers ? Presenter: Cyrille Confavreux (France)
17:45	General Discussion



Training Workshop on Abdominal Aortic Calcification (AAC)

16:00 - 18:00	Sormiou
	Chair: Jack Dalla Via (Australia)
16:00	Abdominal Aortic Calcification: Clinical importance. Presenter: Joshua Lewis (Australia)
16:25	Discussion
16:30	Assessing abdominal aortic calcification from lateral spine and vertebral fracture assessment images and radiographs. Presenter: Pawel Szulc (France)
16:55	Discussion
17:00	Abdominal aortic calcification and its relationship to musculoskeletal and non- cardiovascular outcomes. Presenter: Marc Sim (Australia)
17:25	Discussion
17:30	Automated assessment of abdominal aortic calcification with cardiovascular outcomes. Presenter: Joshua Lewis (Australia)
17:55	Discussion



ECTS 2024 Scientific programme

Main Congress - Saturday, 25 May 2024

Welcome Remarks

08:00 - 08:15	Callelongu
	Chair: Peter Pietschmann (Austria)
08:00	Opening of the Congress Speaker: Peter Pietschmann (Austria)
Clinical Update: C 2024	inical Update 1: Current Aspects in Bone Densitometry and ECTS Clinical Guidelin
08:30 - 10:00	Callelongu
	Chair: Willem Lems (Netherlands)
	Chair: Roland Chapurlat (France)
08:30	Changes in BMD as a Surrogate Endpoint for Fractures: an update on the SABRE projectChanges in BMD as a Surrogate Endpoint for Fractures: an update on the SABRE project Presenter: Mary Bouxsein (United States)
08:55	Discussion
09:00	Bone Mineral Density Best Practice and Role of Vertebral Fracture Assessme

in skeletal health assessment- Consensus Statement from the International Working Group endorsed by ECTS Presenter: Aliya Khan (United States) & Willem Lems (Netherlands)

- 09:25 Discussion
- 09:30 GIOP guideline Presenter: Julien Paccou (France)
- 09:55 Discussion

Basic Science & Technology Update: Basic Science Update 1: Single Cell Transcriptomics

08:30 - 10:00	Endoume 1+2
	Chair: Geert Carmeliet (Belgium)
	Chair: Björn Busse (Germany)
08:30	Number of cells, transcripts or resolution, what matters for me doing single cell or spatial transcriptomics Presenter: Alexander Rauch (Denmark)
09:00	Discussion
09:15	Dissecting Cancer Cell Dormancy One Cell at a Time Presenter: Peter Croucher (Australia)
09:45	Discussion



Coffee Break, Poster and Exhibition Visit

10:00 - 10:30

Other Areas

Big Session: Big Basic Science Session: Immune Disease and Bone 10:30 - 11:30 Endoume 1+2 Chair: Claudine Blin (France) Chair: Aline Bozec (Germany) 12:00 Bone destructive fibroblasts mediate immune bone cell crosstalk Speaker: Hiroshi Takayanagi (Japan) 12:25 Discussion 12:30 Bone resorption by inflammatory immune signaling Speaker: Martina Rauner (Germany) 12:55 Discussion

Clinical Update: Clinical update 2: Best of the Year in Clinical Science

10:30 - 11:30		Callelongue
	Chair: Bo Abrahamsen (Denmark)	
	Chair: Christian Girgis (Australia)	
10:30	Best of the year in clinical science Presenter: Thomas Funck-Brentano (France)	
11:15	Discussion	

Lunch Break, Poster and Exhibition Visit

12:30 - 14:00 Othe	Areas
12.30 - 14.00 Ottle	Aleas

Opening ceremony

12:30 - 12:45		Callelongue
	Chair: Peter Pietschmann (Austria)	
12:30	President's Welcoming Remarks Speaker: Peter Pietschmann (Austria)	
12:40	Local Organising Committee Chair's Welcoming Remarks Speaker: Martine Cohen-Solal (France)	



ECTS Academy / NI Session: Poster Forum Clinical

12:50 - 13:50	Callelongue	
	Chair: Anda Mihaela Naciu (Italy)	
	Chair: Jakob Starup-Linde (Denmark)	
12:50	P001: Bone turnover biomarkers predict one-year all-cause mortality and walki ability in geriatric hip fracture patients <i>Poster Presenter: Guangtao Fu (China)</i>	ng
12:58	P221: Denosumab-associated Jaw Osteonecrosis: Descriptive Analysis and Comparison with Zoledronic Acid Using European EudraVigilance Data Poster Presenter: Sofia Ferreira Azevedo (Portugal)	
13:06	P181: Association between Hip Bone Mineral Density and Mortality Risk after H Fracture: a Prospective Cohort Study Poster Presenter: Yufeng Ge (China)	ip
13:14	P260: Variation in circulating levels of Periostin in Osteogenesis Imperfecta Poster Presenter: Alexandre Mercier (France)	
13:22	P051: Exploring the Nexus of Postural Control in Diabetes: A Cross-Sectional Investigation of New Strategies for Fracture Preventions. Poster Presenter: Nicklas Rasmussen (Denmark)	
13:30	P168: Growth Differentiation Factor 15 in Type 2 Diabetes: The Effect Of Exerci Training and its Relationship to Musculoskeletal Health. Poster Presenter: Lorenza Mattia (Italy)	se
13:38	Discussion	

ECTS Academy / NI Session: Poster Forum Basic

12:50 - 13:50	Endoume 1+2
	Chair: Christina Andreasen (Denmark)
	Chair: Morten Frost (Denmark)
12:50	P034: Endothelial YAP/TAZ controls bone marrow fibrosis and Osteosclerosis Poster Presenter: Kishor Kumar Sivaraj (Germany)
12:58	P126: High glucose levels negatively affect bone formation and regeneration in zebrafish larvae Poster Presenter: Tessa Krappa (Germany)
13:06	P067: Delineating the role of Fshr in Bone Remodeling Using Novel Genetic Mouse Models <i>Poster Presenter: Mingxin Sun (China)</i>
13:14	P265: Identification of onco-suppressor activity of SWAP-70: implications for new therapeutic target in osteosarcoma Poster Presenter: Laura Di Giuseppe (Italy)
13:22	P123: Mechanical loading enhances the effect of insulin treatment on bone mass in young type 1 diabetic mice (Akita) Poster Presenter: Indira Toillon (Switzerland)
13:30	P075: ADRB2/aCGRP-dependent induction of pro-angiogenic factors in periosteal cells by norepinephrine Poster Presenter: Jan Sevecke (Germany)



13:38

Discussion

ECTS Academy / NI Session: Meet the ECTS Academy

14:00 – 15:00		Riou
	Chair: Alex Ireland (United Kingdom)	
	Chair: Jeroen Geurts (Switzerland)	
	Chair: Michaela Tencerova (Czech Republic)	
14:00	9 years of the ECTS Academy - the story so far Speaker: Alex Ireland (United Kingdom)	
14:10	Your Academy Needs You! An overview of the Academy recr Speaker: Jeroen Geurts (Switzerland)	uitment process
14:20	FIDELIO EU Training Network - an example of Academy colla Speaker: Martina Rauner (Germany)	boration
14:30	ANZBMS/ECTS B.O.N.E. Exchange Programme 2023 - reachin societies Speaker: Michaela Tencerova (Czech Republic)	ng out to other MS
14:40	Experiences as an Academy member 2017-22 Speaker: Elena Tsourdi (Germany)	
14:50	Discussion	

ECTS-IFMRS Workshop: Are the Genes I'm investigating in Mice relevant to Human Disease?

14:15 – 15:15	Callelongu	е
	Chair: Claus-Christian Glüer (Germany)	
	Chair: Geert Carmeliet (Belgium)	
14:15	Are the Genes I'm investigating in Mice relevant to Human Disease? Presenter: Cheryl Ackert-Bicknell (United States) & Carolina Medina-Gomez (Netherlands)	

Maria Luisa Bianchi Award Lecture

15:05 - 15:35

Chair: Salvatore Minisola (Italy)

14:40	Introduction Presenter: Salvatore Minisola (Italy)
14:50	Insights From the Indian Rare Metaboli

Callelongue



Break

15:50 - 16:05

Other Areas

Plenary symposium 1: Integrated Control of Osteogenesis and Adipogenesis		
16:05 - 17:05		Callelongue
	Chair: Bram van der Eerden (Netherlands)	
	Chair: Moustapha Kassem (Denmark)	
16:05	Bone fragility in diabetes and obesity - novel targets for therapy Speaker: Lorenz Hofbauer (Germany)	
16:30	Discussion	
16:35	Clinical implications of bone marrow adiposity Speaker: Annegreet Vlug (Netherlands)	
17:00	Discussion	

Coffee break, Poster and Exhibition Visit

17:05 - 17:50	Other Areas
17.05 - 17.50	Other Areas

ECTS-ASBMR Debate: This House Believes that Bone Turnover Markers Improve Clinical Outcomes with Osteoporosis Treatments

17:50 - 19:05		Callelongue
	Chair: Mary Bouxsein (United States)	
	Chair: Peter Pietschmann (Austria)	
17:50	Introduction by the chairs and vote	
17:55	For the motion Speaker: Richard Eastell (United Kingdom)	
18:15	Against the motion Speaker: Douglas Bauer (United States)	
18:35	Comments and questions from the audience	
18:50	Rebuttal for the motion	
18:55	Rebuttal against the motion	
19:00	Vote and debate close	



Basic Science Debate: This House Believes that Classical Bone Histomorphometry Provides Better Functional Information than Emerging Imaging Techniques

17:50 - 19:05		Endoume 1+2
	Chair: Philippe Zysset (Switzerland)	
	Chair: Danielle Whittier (Canada)	
17:50	Introduction by the chairs and vote	
17:55	For the motion Speaker: Natalie Sims (Australia)	
18:15	Against the motion Speaker: Ralph Müller (Switzerland)	
18:35	Comments and questions from the audience	
18:50	Rebuttal for the motion	
18:55	Rebuttal against the motion	
19:00	Vote and debate closed	

Main Congress - Sunday, 26 May 2024

Concurrent Symposium 1: Update on Premenopausal Osteoporosis

08:00 - 09:00		Callelongue
	Chair: Núria Guañabens (Spain)	
	Chair: Shivani Sahni (United States)	
08:00	Mechanisms of premenopausal osteoporosis Speaker: Frances Milat (Australia)	
08:25	Discussion	
08:30	Investigation and management of premenopausal ostoporosis Speaker: Adi Cohen (United States)	
08:55	Discussion	
Concurrent Sympo	sium 1: Novel approaches to Skeletal Imaging	
08:00 - 09:00		Endoume 1+2
	Chair: Ralph Müller (Switzerland)	
	Chair: Heide Siggelkow (Germany)	

- 08:00 Synchrotron imaging of bone: past and future Speaker: Françoise Peyrin (France)
- 08:25 Discussion



08:30

08:55

Statistical shape and intensity modelling and atlas of bones Speaker: Alejandro Frangi (United Kingdom) Discussion

Nurses & Allied Health Professionals (AHP) Seminar 1

08:30 - 10:00		Endoumee 3
	Chair: Mylène Zarka (France)	
	Chair: Pawel Matusik (Poland)	
08:30	Basics of Bone Biology Presenter: Petar Milovanovic (Serbia)	
08:55	Discussion	
09:00	Diagnosis of Osteoporosis Presenter: Barbara Obermayer-Pietsch (Austria)	
09:25	Discussion	
09:30	Treatment of Osteoporosis: an International Pers Presenter: Christian Girgis (Australia)	pective
09:55	Discussion	

Concurrent Oral Presentations 1: Rare Bone Diseases

09:05 - 10:05	Callelongue
	Chair: Adalbert Raimann (Austria)
	Chair: Ciro Menale (Italy)
09:05	COP01 Possible role of bone turnover markers in the diagnosis of Adult Hypophosphatasia Abstract Presenter: Marco Onofrio Torres (Italy)
09:15	COP02 Exploring the interplay of genetics, epigenetics, gene expression, and biochemistry in individuals with suspected adult hypophosphatasia. Abstract Presenter: Alvaro Del Real (Spain)
09:25	COP03 Mineral homeostasis in adults with suspected hypophosphatasia: data from the FAME study Abstract Presenter: Tatiane Vilaca (United Kingdom)
09:35	COP04 Dosing studies to determine the efficacy and safety of recombinant AAV type 8 vector encoding TNAP-D10 in late-onset hypophosphatasia Abstract Presenter: Flavia Amadeu De Oliveira (United States)
09:45	COP05 Impact of INZ-701 on Bone and Mineral Metabolism Biomarkers and Clinical Outcomes in Adults with ENPP1 Deficiency- Results from 48-week Phase 1/2 Open Label Study Abstract Presenter: Yves Sabbagh (United States)
09:55	COP06 Noninvasive personalized therapeutic approach for the treatment of cranial bone defects in Crouzon syndrome using ferritin nanoparticles-mediated siRNAm delivery Abstract Presenter: Federica Tiberio (Italy)



Concurrent Oral Presentations 1: Pathophysiology and Treatment of Bone Diseases

09:05 - 10:05	Endoume 1+2
	Chair: Emma Duncan (United Kingdom)
	Chair: Andre Van Wijnen (United States)
09:05	COP07 Preferential editing of the mutated CLCN7 allele as therapeutic approach for autosomal dominant osteopetrosis <i>Abstract Presenter: Dario Gajewski (Germany)</i>
09:15	COP08 CFTR modulators treatments (ETI) partially restore osteoclasts phenotype in cystic fibrosis-related bone disease Abstract Presenter: Johan Sergheraert (France)
09:25	COP09 Anti-myostatin treatment effectively ameliorates bone metastasis in a xenograft mouse model of breast cancer Abstract Presenter: Corinna Wehmeyer (Germany)
09:35	COP10 Mitochondrial E3 Ubiquitin Ligase MUL1 reduces proliferation and increases cell death in metastatic osteosarcoma cells Abstract Presenter: Jacopo Di Gregorio (Italy)
09:45	COP11 Glucocorticoid-induced osteoporosis and the osteohematopoietic niche Abstract Presenter: Ulrike Baschant (Germany)
09:55	COP12 Lrp5 p.Val667Met variant does not alter the response to anti-sclerostin antibodies Abstract Presenter: Stephanie Fabre (France)

Coffee Break, Poster and Exhibition Visit

10:05 -	10:30
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Other Areas

Best Article Award Presentations

10:30 - 11:00	Callelongue
	Chair: Salvatore Minisola (Italy)
	Chair: Klaus Engelke (Germany)
10:30	Machine-Learning Assessed Abdominal Aortic Calcification is Associated with Long-Term Fall and Fracture Risk in Community-Dwelling Older Australian Women Presenter: Jack Dalla Via (Australia)
10:37	Discussion
10:40	Gene therapy using recombinant AAV type 8 vector encoding TNAP-D10 improves the skeletal phenotypes in murine models of osteomalacia Presenter: Flavia Amadeu De Oliveira (United States)
10:47	Discussion
10:50	Sugar transporter SIc37a2 regulates bone metabolism in mice via a tubular lysosomal network in osteoclasts Presenter: Amy Ribet (Germany)



10:57 Discussion

Plenary Symposium 2: New Insights into Osteogenesis Imperfecta

11:00 - 12:00		Callelongue
	Chair: Adi Cohen (United States)	
	Chair: Roland Chapurlat (France)	
11:00	Extracellular matrix properties in Ol Speaker: Florence Ruggiero (France)	
11:25	Discussion	
11:30	Health-related problems in adults with osteogenesis imperfecta Speaker: Jane Dahl Andersen (Denmark)	
11:55	Discussion	

Corporate Satellite Symposium 1

 12:00 - 13:00
 Endoume
 1+2

 More details can be found on the website:
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https://www.ects2024.org/sponsors-exhibitors/satellite-symposia-programme/

Lunch Break, Poster and Exhibition Visit

12:00 - 13:30

Nurses & Allied Health Professionals (AHP) Seminar 2

13:00 - 14:30		Endoume 3
	Chair: Julien Paccou (France)	
	Chair: Katrine Hass Rubin (Denmark)	
13:00	Obesity and Bone: the Pediatric Perspective <i>Presenter: Pawel Matusik (Poland)</i>	
13:25	Discussion	
13:30	Nutrition and Bone Presenter: Shivani Sahni (United States)	
13:55	Discussion	
14:00	Fracture Liaison Services: Current State of the Art Presenter: Willem Lems (Netherlands)	
14:25	Discussion	

Other Areas



Meet the Expert 1: Reference Point Indentation in Vivo

13:30 - 14:30		Endoume 1+2
13:30	Reference point indentation in vivo Presenter: Natasha Appelman-Dijkstra (Netherlands)	
Meet the Expert 2:	: Opportunistic CT for Musculoskeletal Research	
13:30 - 14:30		Morgiou
13:30	Opportunistic CT for musculoskeletal research Presenter: Ken Poole (United Kingdom)	
Meet the Expert 3:	: Osteoimmunology	
13:30 - 14:30		Sormiou
13:30	Osteoimmunology Presenter: Aline Bozec (Germany)	
Meet the Expert 4:	Which Target to Reach to Discontinue Treatment	
13:30 - 14:30		Riou
13:30	Which target to reach to discontinue treatment Presenter: Elena Tsourdi (Germany)	
Meet the Expert 5:	: XLH Evidence-Based Guidelines	
13:30 - 14:30		Pomègues
13:30	XLH evidence-based guidelines Presenter: Agnès Linglart (France)	
Break		
14:30 - 15:00		Other Areas
Corporate Satellite	e Symposium 2	
15:00 - 16:00		Endoume 1+2

More details can be found on the website: https://www.ects2024.org/sponsors-exhibitors/satellite-symposia-programme/



Coffee break, Poster and Exhibition visit

16:00 - 16:45

Other Areas

Plenary Oral Presentations 1: Rare Bone Diseases and Cancer

16:45 - 17:45	Callelongu	e
	Chair: Jose A. Riancho (Spain)	
	Chair: Guillaume Odri (France)	
16:45	PLO01 The Wnt1G177C mutation impairs load-induced bone formation via nuclear receptor 4a2 Abstract Presenter: Mubashir Ahmad (Germany)	
16:55	PLO02 Bi-allelic missense variants of ERI1 cause a new type of spondylo-e metaphyseal dysplasia Abstract Presenter: Long Guo (China)	pi-
17:05	PLO03 A pathogenic role for brain-derived neurotrophic factor (BDNF) in Fibrous Dysplasia of bone Abstract Presenter: Biagio Palmisano (Italy)	
17:15	PLO04 Mucopolysaccharidosis type I Hurler skeletal alterations and cross- correction in an ex vivo gene therapy approach Abstract Presenter: Ludovica Santi (Italy)	
17:25	PLO05 Spine deformity in mice lacking Nf1 gene in boundary cap-derived osteoblasts Abstract Presenter: Franceska Kovaci (France)	
17:35	PLO06 A brief vitamin B6 supplementation to individuals with low alkaline phosphatase is useful to identify patients with ALPL mutations Abstract Presenter: Sofía Álvarez Villalobos (Spain)	

Break

17:45 - 18:00		Othe	r Areas

Concurrent Oral Poster Presentations 1: Clinical/Public Health

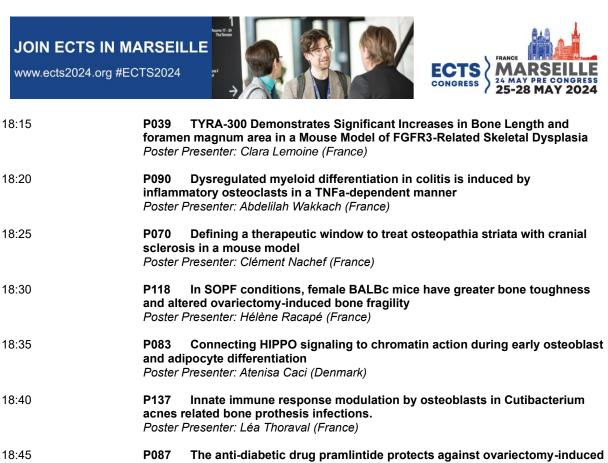
18:00 - 19:00	Callelongue
	Chair: Martine Cohen-Solal (France)
	Chair: Elena Tsourdi (Germany)
18:00	P213 Treatment-related changes in total hip bone mineral density and fracture risk reduction for drugs with different mechanisms of action: the FNIH-ASBMR-SABRE Project Poster Presenter: Tatiane Vilaca (United Kingdom)
18:05	P247 Availability of physical therapy for children with osteogenesis imperfecta in Austria Poster Presenter: Adalbert Raimann (Austria)



18:10	P281 Adeno-associated virus type 8 vector encoding TNAP-D10 improves the skeletal phenotype in a mouse model of infantile HPP Poster Presenter: Cintia Kazuko Tokuhara (United States)
18:15	P237 Safety and Exploratory Efficacy of INZ-701 in Adults with ABCC6 Deficiency Manifesting as Pseudoxanthoma Elasticum– Results from 48-week Phase 1/2 Open Label Study Poster Presenter: Yves Sabbagh (United States)
18:20	P267 The role of physical therapy in adult chronic nonbacterial osteitis (CNO): patients' and therapists' perspective Poster Presenter: Anne Leerling (Netherlands)
18:25	P268 Multidisciplinary recommendations for the diagnosis and management of chronic nonbacterial osteitis (CNO) in adults <i>Poster Presenter: Anne Leerling (Netherlands)</i>
18:30	P194 Increased risk of osteoporosis, use of osteoporosis medication and major osteoporotic fractures in patients with Addison's disease in Sweden: a nationwide population-based cohort study. Poster Presenter: Stavros Stergianos (Sweden)
18:35	P198 Components of osteoporosis and long-term cardiovascular disease outcomes Poster Presenter: Cassandra Smith (Australia)
18:40	P115 Semaglutide increases bone resorption but not formation and causes bone loss in adult men and women with increased fracture risk Poster Presenter: Morten Svarer Hansen (Denmark)
18:45	P005 Diabetes and bones: Unraveling the Biomarker Symphony and Density Dance Poster Presenter: Nicklas Rasmussen (Denmark)
18:50	P125 Long-term effects of weight restoration on bone mineral density (BMD) in patients with anorexia nervosa Poster Presenter: Giovanni Adami (Italy)
18:55	P259 Epidemiology of fibrodysplasia ossificans progressiva (FOP) mortality in the USA, 2017–2023 Poster Presenter: Caitlin Knox (United States)

Concurrent Oral Poster Presentations 1: Bone and Cartilage Biology

18:00 - 19:00	Endoume 1+2
	Chair: Frédéric Velard (France)
	Chair: Cristina Sobacchi (Italy)
18:00	P145 Inhibiting lysyl oxidases (LOX(L)) prevents cartilage calcification in osteoarthritis Poster Presenter: Sonia Nasi (Switzerland)
18:05	P041 Chondrocyte-specific Deletion of the β2 Adrenoceptor impairs Bone Growth and Fracture Healing Poster Presenter: Miriam E. A. Tschaffon-Müller (Germany)
18:10	P053 Nf1 loss in skeletal progenitors induces cellular senescence and an inhibitory bystander effect on the osteogenic differentiation of normal osteoprogenitors Poster Presenter: Florent Elefteriou (United States)



18:45 P087 The anti-diabetic drug praminitide protects against ovariectomy-induction osteoporosis by inhibiting bone resorption in a calcitonin receptor-dependent manner. Poster Presenter: Shan Jiang (Germany) 18:50 P101 Impaired ossification of the femoral head in a mouse model of mucolipidosis type III gamma Poster Presenter: Assil-Ramin Alimy (Germany) 18:55 P011 PLGA-PEG-COOH Microparticles Covalent Functionalization of MEW PCL 3D Printed mimetic Periosteum Autografts

Poster Presenter: Juan Antonio Romero Torrecilla (Spain)

NI Mentoring Session

19:00 - 20:00	Sormiou	
19:00	Forming productive collaborations Presenter: Mary Bouxsein (United States)	
19:00	How to pitch your project idea / how to pitch my research Presenter: Richard Eastell (United Kingdom)	
19:00	Clinics and research: how to combine the two? Presenter: Thomas Funck-Brentano (France)	
19:00	Transition to Independence Presenter: Alexander Rauch (Denmark)	
19:00	From bench to bedside Presenter: Christian Girgis (Australia)	
19:00	Networking for professional development: benefits of serving scientific socie Presenter: Björn Busse (Germany)	ties



Main Congress - Monday, 27 May 2024

Concurrent Symposium 2: Bone Metastasis

08:00 - 09:00	Endoume 1+2
	Chair: Jean-Jacques Body (Belgium)
	Chair: Olivier Peyruchaud (France)
08:00	Novel targets in osteolytic bone metastasis Speaker: Sonja Loges (Germany)
08:25	Discussion
08:30	Metabolic crosstalk between stromal and malignant cells in the bone marrow niche Speaker: Nick van Gastel (Belgium)
08:55	Discussion

Concurrent Symposium 2: Metabolomic Profiling and Nutrition in Bone Health

08:00 - 09:00		Callelongue
	Chair: Graham Williams (United Kingdom)	
	Chair: Barbara Obermayer-Pietsch (Austria)	
08:00	Using proteomics and metabolomics to assess bone health Speaker: Claes Ohlsson (Sweden)	
08:25	Discussion	
08:30	New insights into nutrition and bone Speaker: Shivani Sahni (United States)	
08:55	Discussion	

Concurrent Oral Presentations 2: Osteoporosis

09:05 - 10:05	Callelongue
	Chair: Frances Milat (Australia)
	Chair: Pilar Peris (Spain)
09:05	COP13 Analysis of the relationship between baseline BMD and fracture incidence in the placebo groups using individual patient data from the FNIH-ASBMR-SABRE Project Abstract Presenter: Marian Schini (United Kingdom)
09:15	COP14 A Randomized, Double-blind, Phase III Study to Compare SB16 (Proposed Denosumab Biosimilar) to Reference Denosumab in Patients with Postmenopausal Osteoporosis: 18-Month Results Abstract Presenter: Bente Langdahl (Denmark)



00.20	Abstract Presenter: Natasha Laursen (Denmark)
09:35	COP16 Romosozumab and denosumab combination therapy in postmenopausal osteoporosis Abstract Presenter: Giovanni Adami (Italy)
09:45	COP17 Effectiveness of conservative treatment in the management of acute painful vertebral compression fractures: Systematic review and network meta- analysis Abstract Presenter: Tim Rolvien (Germany)
09:55	COP18 Bone material properties in male patients with "idiopathic osteoporosis" Abstract Presenter: Markus Hartmann (Austria)

Concurrent Oral Presentations 2: Bone Biology and Biomechanics

09:05 - 10:05	Endoume 1+2
	Chair: Michaela Tencerova (Czech Republic)
	Chair: Melanie Haffner-Luntzer (Germany)
09:05	COP19 The beta2-adrenoreceptor is essential for bone repair in adult mice. Abstract Presenter: Paul-Richard Knapstein (Germany)
09:15	COP20 Lysosomal enzymes in mature osteoblasts and osteocytes limit collagen width and mineral accrual in bone tissue Abstract Presenter: Martha Blank (Australia)
09:25	COP21 Unveiling Age- and Sex-Specific Impairments in Mechanical Adaptation of Prematurely Aged PolgA Mice Abstract Presenter: Dilara Yilmaz (Switzerland)
09:35	COP22 Neutrophil extracellular traps are targetable mediators of impaired bone healing in mice Abstract Presenter: Lilly-Charlotte Albertsen (Germany)
09:45	COP23 Family-based whole-exome sequencing implicates a variant in lysyl oxidase like 4 in atypical femur fractures Abstract Presenter: Carola Zillikens (Netherlands)
09:55	COP24 GWAS meta-analysis of bone stiffness indices in 544,864 individuals identifies new candidate genes that may control the structural integrity of bone and susceptibility to fracture. Abstract Presenter: Kaitlyn Flynn (Australia)

Coffee Break, Poster and Exhibition Visit

10:05 - 10:30

Steven Boonen Award Lecture

Chair: Bo Abrahamsen (Denmark)

Callelongue

Other Areas



10:30	Introduction Speaker: Bo Abrahamsen (Denmark)
10:40	Improving fracture risk prediction using large scale real-world data and novel measurement techniques Speaker: Mattias Lorentzon (Sweden)

Plenary Symposium 3: What is New: New Insigths into Bone Anabolics

11:00 - 12:00		Callelongue
	Chair: Sundeep Khosla (United States)	
	Chair: Christian Meier (Switzerland)	
11:00	The mechanism of action of anabolics Speaker: Teresita Bellido (United States)	
11:25	Discussion	
11:30	What do we know and what don't we know about anabolics? Speaker: Fernando Marin (Spain)	
11:55	Discussion	

Educational symposium: Artificial Intelligence Tools for Musculoskeletal Research and Management

12:00 - 13:00	Callelongue	
	Chair: Bo Abrahamsen (Denmark)	
	Chair: Christian Meier (Switzerland)	
12:00	Can machine learning contribute to our knowledge of musculoskeletal diseases Speaker: Sharmila Majumdar (United States)	?
12:15	Discussion	
12:20	Al tools for fracture detection and fracture risk prediction Speaker: Nicholas Fuggle (United Kingdom)	
12:35	Discussion	
12:40	Al and chatbots in musculoskeletal medicine Speaker: Annegreet Vlug (Netherlands)	
12:55	Discussion	
Lunch Break Post	er and Exhibition Visit	
Lunch Dieak, POst		

12:00 - 13:30 Other Areas

Meet the Expert 6: Update on Bone histology and Histomorphometry

13:30 - 14:30

Morgiou



More details can be found on the website: https://www.ects2024.org/sponsors-exhibitors/satellite-symposia-programme/



Corporate Mini Symposium 4

15:00 - 16:00		Endoume 1+2
	be found on the website: 024.org/sponsors-exhibitors/satellite-symposia-programme/	
Coffee Break, Po	ster and Exhibition Visit	
16:00 - 16:45		Other Areas
Plenary Oral Pres	sentations 2: Treatment and Fracture Repair	
16:45 - 17:45		Callelongue
	Chair: Petar Milovanovic (Serbia)	
	Chair: Johannes Grillari (Austria)	
16:45	PLO07 Single nuclei analyses of immune cells during crucial role of macrophages in musculoskeletal traum Abstract Presenter: Yasmine Hachemi (France)	
16:55	PLO08 Revolutionizing Fracture Risk Prediction: Mac with Genetic Insights Abstract Presenter: Qing Wu (China)	hine-Learning Synergy
17:05	PLO09 Periosteal response to bone fracture at single Abstract Presenter: Cassandre Goachet (France)	nuclei resolution
17:15	PLO10 Compound heterozygous TNSALP mutations densely-packed mineral platelets, explaining spontane femoral fractures in hypophosphatasia Abstract Presenter: Ken Poole (United Kingdom)	cause poorly hydrated, eous, osteopetrosis-like
17:25	PLO11 Spatial transcriptomics reveal distinct gene ex union and union bone fractures in mice Abstract Presenter: Esther Wehrle (Switzerland)	xpression patterns in non-
17:35	PLO12 Identification of a rare heterozygous variant in high bone mass Abstract Presenter: Neelam Hassan (United Kingdom)	n WDR5 associated with
Break		

17:45 - 18:00

Other Areas

Concurrent Oral Poster Presentations 2: Clinical/Public Health

18:00 - 19:00

Callelongue

Chair: Polyzois Makras (Greece)

Chair: Carola Zillikens (Netherlands)



18:00	P258 Describing the clinical characteristics of patients living with fibrodysplasia ossificans progressiva (FOP): a non-interventional cohort in the USA Poster Presenter: Caitlin Knox (United States)
18:05	P250 Interactions between Fibroblast Growth Factor 23 and Iron Metabolism in X-Linked Hypophosphatemia (XLH) Poster Presenter: Gaetano Paride Arcidiacono (Italy)
18:10	P023 A Novel Bone Microstructure Analysis Revealed Critical Regions for Early Stability in Total Hip Arthroplasty Poster Presenter: Jing Xu (China)
18:15	P202 Alcohol intake and bone microarchitecture deterioration in older men – the prospective STRAMBO study Poster Presenter: Pawel Szulc (France)
18:20	P275 The combination of height loss and back pain which severely limits normal activities are highly predictive of pregnancy associated osteoporosis <i>Poster Presenter: Elizabeth Orhadje (United Kingdom)</i>
18:25	P232 Hypercalcemia due to CYP24A1 loss of function mutations. Report of four new cases Poster Presenter: Symeon Tournis (Greece)
18:30	P214 3D Modeling of Hip Dual-Energy X-Ray Absorptiometry (DXA) in post- menopausal women treated with romosozumab Poster Presenter: Giovanni Adami (Italy)
18:35	P187 Explainable Deep Learning Approaches for Osteoporosis Risk Screening and Individualized risk evaluation using Large Population-Based Data Poster Presenter: Jin-Woo Kim (Korea, South)
18:40	P197 Short- and long-term prognostic models (FRISBEE versus recency- adjusted FRAX®) in the treatment selection of high fracture risk patients Poster Presenter: Jeroen De Filette (Belgium)
18:45	P234 Primary hyperparathyroidism in the geriatric population: Bone Density changes after parathyroidectomy Poster Presenter: Sara Gonnelli (France)
18:50	P200 Seasonality of Atypical Femoral Fractures and Classic Hip Fractures – Are AFFs summer fractures? Poster Presenter: Bo Abrahamsen (Denmark)
18:55	P218 Calf circumference is a predictor of denosumab response in older women with osteoporosis Poster Presenter: Cecilia Oliveri (Italy)

Concurrent Oral Poster Presentations 2: Pathophysiology

18:00 - 19:00	Endoume 1+2
	Chair: Sonja Gamsjaeger (Austria)
	Chair: Pawel Szulc (France)
18:00	P160 Follistatin-compound hFSTΔHBS-FC improves bone and muscle mass during immobilization and ageing and adds to bone effect of bisphosphonates Poster Presenter: Bram van der Eerden (Netherlands)
18:05	P063 A microfluidic bone-on-a-chip platform to study the role of citrate in prostate carcinoma tropism to bone Poster Presenter: Sofia Avnet (Italy)



18:10	P024 Alcohol-associated liver disease–induced changes in osteocyte lacunar network and bone mineral density distribution of the femoral neck: postmortem assessment using quantitative backscattered electron imaging <i>Poster Presenter: Jelena Jadzic (Serbia)</i>
18:15	P153 Exploring the role of transferrin receptor 1 in bone homeostasis. Poster Presenter: Vanessa Passin (Germany)
18:20	P158 Exercise inhibits fat infiltration and promotes muscle repair by regulating muscle immune microenvironment <i>Poster Presenter: Quanzhong Ren (China)</i>
18:25	P217 Prolonged treatment with irisin counteracts bone loss in the femurs of aged mice Poster Presenter: Graziana Colaianni (Italy)
18:30	P030 Detailed mapping of cortical and trabecular mineralization, osteocyte lacunar parameters, and microarchitecture along the superolateral femoral neck in subjects with type 2 diabetes mellitus <i>Poster Presenter: Aleksandar Cirovic (Serbia)</i>
18:35	P055 Irisin prevents trabecular bone loss in a mouse model of Multiple Myeloma Poster Presenter: Roberta Zerlotin (Italy)
18:40	P231 Identification of genetic and molecular causes of hypophosphatasia Poster Presenter: Timur Yorgan (Germany)
18:45	P278 Generation and characterization of the first mouse model of Cole Carpenter Syndrome Poster Presenter: Antonio Maurizi (Italy)
18:50	P204 Zoledronate prevents bone loss in hemiplegic mice Poster Presenter: Charlotte Logiou (France)
18:55	P271 Disruption of the osteocyte lacunocanalicular network in osteogenesis imperfecta type XIV Poster Presenter: Chloe Jones (Austria)

NI Seminar and Gathering

19:00 - 20:00	Sormiou
	Chair: Franziska Knopf (Germany)
	Chair: Ursula Heilmeier (Germany)
	Chair: Tim Rolvien (Germany)
19:00	P117: Glutamine supplementation in high fat diet improves bone and metabolic parameters in obese mice Poster Presenter: Martina Džubanová (Czech Republic)
19:10	P128: Omega-6 Arachidonic acid is increased in Osteoarthritis Bone Marrow Adipose Tissue and negatively impacts osteogenesis. Poster Presenter: Léa Loisay (Switzerland)
19:20	P064: Characterization of circulating and tumor infiltrating neutrophils in a murine model of osteosarcoma <i>Poster Presenter: Diane Ji Yun Yoon (France)</i>



	Poster Presenter: Anne Leerling (Netherlands)
19:40	P203: Modelling the initial effects of systemic glucocorticoids (GCs) on absolute changes in total left hip BMD in GC treatment-naive and unopposed adults using linear regression Poster Presenter: Benjamin Bakke Hansen (Denmark)
19:50	Discussion

Main Congress - Tuesday, 28 May 2024

Concurrent Symposium 3: New Insights of Molecular Biology

08:00 - 09:00	Endoume 1+2
	Chair: Eleni Douni (Greece)
	Chair: Teresita Bellido (United States)
08:00	Osteocyte transcriptome mapping – insights into control of the skeleton Speaker: Peter Croucher (Australia)
08:25	Discussion
08:30	miRNA signaling in bone remodeling Speaker: Hanna Taipaleenmaki (Germany)
08:55	Discussion

Concurrent Symposium 3: Inflammation and Bone

08:00 - 09:00		Callelongue
	Chair: Anna Maria Teti (Italy)	
	Chair: Gudrun Stenbeck (United Kingdom)	
08:00	Bone involvement in Inflammatory arthritides Speaker: Georg Schett (Germany)	
08:25	Discussion	
08:30	Inflammation beyond arthritis – the case of osteomyelitis Speaker: Cristina Sobacchi (Italy)	
08:55	Discussion	

Concurrent Oral Presentations 3: Disease Trajectories and Assessment

09:05 - 10:05	

Chair: Mattias Lorentzon (Sweden)

Chair: Sekib Sokolovic (Bosnia - Herzegovina)

Callelongue

JOIN ECTS IN MARSEILLE EC www.ects2024.org #ECTS2024 CONGRESS 09:05 COP25 Abdominal aortic calcification assessed in DXA-derived images using machine learning predicts increased injurious falls risk in older adults: the Manitoba Bone Mineral Density Registry Abstract Presenter: Marc Sim (Australia) 09:15 COP26 Dissecting the genetic architecture of trabecular bone score: a genomewide association study in 45 thousand individuals. Abstract Presenter: Haojie Lu (Netherlands) 09:25 COP27 Assessment of Romosozumab (Romo) Treatment on Spine Bone Strength Using Biomechanical Computed Tomography (CT) Virtual Stress Tests Abstract Presenter: Jen Timoshanko (United Kingdom) 09:35 COP28 Longitudinal course of volumetric hip BMD and macrostructure in postmenopausal T2D women with and without diabetic retinopathy versus controls - a prospective 5-year-quantitative computed tomography-(qCT)-study Abstract Presenter: Ursula Heilmeier (Switzerland) COP29 Accumulation of Advanced Glycation End products and 09:45 Microarchitecture of Bone Tissue in Subjects with or without Type 2 Diabetes **Mellitus**

 09:55
 COP30 A 5-yr longitudinal study of body composition tissue-specific change with aging and the association with loss of muscle strength and physical performance Abstract Presenter: Yi Yuan (China)

Concurrent Oral Presentations 3: Osteoclast Biology, Osteoarthritis

09:05 - 10:05	Endoume 1+2
	Chair: Jeroen Geurts (Switzerland)
	Chair: Nick van Gastel (Belgium)
09:05	COP31 Zfp687 deficiency causes altered skeletal growth due to impaired osteoclast differentiation <i>Abstract Presenter: Sharon Russo (Italy)</i>
09:15	COP32 Cell-autonomous osteoclast iron deficiency leads to osteopenia Abstract Presenter: Tiago Carvalho Oliveira (Germany)
09:25	COP33 bone marrow adipose tissue-mediated lipolysis regulates abberant bone formation in hand Osteoarthritis Abstract Presenter: Léa Loisay (Switzerland)
09:35	COP34 Genetic modulation of WNT1 expression alters subchondral bone remodeling and osteophyte formation during post-traumatic osteoarthritis in mice Abstract Presenter: Weixin Xie (Germany)
09:45	COP35 Inactivation of Cxcl9 protects from cartilage deterioration and osteophyte formation in experimental osteoarthritis Abstract Presenter: Antonia Donat (Germany)
09:55	COP36 Chondrocyte specific inactivation of Piezo1 attenuates osteoarthritis development Abstract Presenter: Assil-Ramin Alimy (Germany)



Break

	Other Areas
n 4: High Resolution Imaging in Bone	
	Callelongue
Chair: Richard Eastell (United Kingdom)	
Chair: Alex Ireland (United Kingdom)	
Leveraging HR-pQCT and advanced computational technique insights into bone health Speaker: Danielle Whittier (Canada)	es to gain deeper
Discussion	
Is it justified to use HR-pQCT in clinical practice? Speaker: Mattias Lorentzon (Sweden)	
Discussion	
n	Chair: Richard Eastell (United Kingdom) Chair: Alex Ireland (United Kingdom) Leveraging HR-pQCT and advanced computational technique insights into bone health Speaker: Danielle Whittier (Canada) Discussion Is it justified to use HR-pQCT in clinical practice? Speaker: Mattias Lorentzon (Sweden)

Coffee Break

11:30 - 12:00	Other Areas
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Basic Science Update 2: Spatial Imaging and Transcriptomics

12:00 - 13:00		Endoume 1+2
	Chair: Peter Croucher (Australia)	
	Chair: Hanna Taipaleenmaki (Germany)	
12:00	Spatial imaging and transcriptomics Presenter: Ralph Müller (Switzerland)	
12:45	Discussion	
Big Clinical Session: A	ging and Cellular Senescence	
12:00 - 13:00		Callelongue
	Chair: Gustavo Duque (Australia)	
	Chair: Bente Langdahl (Denmark)	
12:00	From cellular senescence via biomarkers to senolytics Speaker: Johannes Grillari (Austria)	
12:25	Discussion	
12:30	Excellence in Research Lecture: Cellular senescence and the sk Speaker: Sundeep Khosla (United States)	eleton



12:55

Discussion

Break

Plenary Oral Presentations 3: Innovative Concepts

13:15 - 14:15	Callelongue
	Chair: Alejandro Frangi (United Kingdom)
	Chair: Ralph Müller (Switzerland)
13:15	PLO13 CRISPR-toolbox for identification and validation of bone-specific enhancers Abstract Presenter: Regina Margarete Grün (Germany)
13:25	PLO14 Improved skeletal dynamics in adults treated with palopegteriparatide (TransCon PTH) for hypoparathyroidism: 52-week analysis of phase 3 PaTHway trial Abstract Presenter: Aliya Khan (Canada)
13:35	PLO15 Mapping osteoblastic bone formation in vivo at the single organelle resolution Abstract Presenter: Kai Chen (Australia)
13:45	PLO16 Acute effects of GLP-1 and GIP on human bone turnover Abstract Presenter: Nina Hansen (Denmark)
13:55	PLO17 Single cell sequencing reveals a novel osteoblast-derived cell population supporting breast cancer bone metastasis Abstract Presenter: Jennifer Zarrer (Germany)
14:05	PLO18 Zoledronate after denosumab discontinuation: is repeated administrations more effective than single infusion in preserving bone mineral density? Abstract Presenter: Giorgia Grassi (Italy)

Awards & Closing Ceremony

14:15 - 14:45		Callelongue
14:15	Speaker: Peter Pietschmann (Austria)	