## Satellite Meetings

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>08.55-18.05</td>
<td>ECTS Training Course: Genetic aspects of bone disease</td>
</tr>
<tr>
<td>11.30-12.30</td>
<td>Allied Health Professionals session</td>
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</tbody>
</table>

### Satellite Symposium 1

- **Supported by:** Alliance for Better Bone Health (P&GP and sanofi-aventis)
- **Location:** CONGRESS HALL

### Satellite Symposium 2

- **Supported by:** Eli Lilly
- **Location:** CONGRESS HALL

### Satellite Symposium 3

- **Supported by:** Roche/GSK
- **Location:** CONGRESS HALL

### Opening Ceremony and Awards

- **Keynote address:** Howard Jacobs (Tampere, Finland)
- **Location:** CONGRESS HALL

### Welcome Reception

- **Location:** GROUND FLOOR
THURSDAY 11 MAY

08.00

POSTERS
EXHIBITION AND POSTER HALL

Symposium 1:
Gender and bone
CONGRESS HALL

09.00

Orals 1:
Osteoporosis
CONGRESS HALL

09.30

COFFEE

10.00

Workshop 1:
Paediatric bone diseases: children’s problems and future outcomes
CONGRESS HALL
Workshop 2: Aging
PANORAMA HALL

12.00

LUNCH & POSTERS
EXHIBITION AND POSTER HALL

Meet the Professor
Sessions
See Programme

13.00

Symposium 2:
Cancer and bone
CONGRESS HALL

14.00

Orals 2:
Stem cells and cancer
CONGRESS HALL

15.00

COFFEE

16.00

Orals 3:
Anabolic agents
CONGRESS HALL

17.00

BREAK

18.00

Satellite Symposium 4
Supported by MSD
CONGRESS HALL
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
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<tbody>
<tr>
<td>08.00</td>
<td>POSTERS</td>
<td>EXHIBITION AND POSTER HALL</td>
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<tr>
<td>08.30</td>
<td>Symposium 3: The immune system and bone</td>
<td>CONGRESS HALL</td>
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<tr>
<td>09.00</td>
<td>Orals 4: Osteoclasts</td>
<td>CONGRESS HALL</td>
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<tr>
<td>09.30</td>
<td>COFFEE</td>
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<tr>
<td>10.00</td>
<td>Workshop 3: Fracture healing</td>
<td>CONGRESS HALL</td>
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<tr>
<td>10.30</td>
<td>Workshop 4: Systems biology</td>
<td>PANORAMA HALL</td>
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<td>11.00</td>
<td>LUNCH &amp; POSTERS</td>
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<tr>
<td>11.30</td>
<td>Symposium 4: Mineralisation</td>
<td>CONGRESS HALL</td>
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<tr>
<td>12.00</td>
<td>Orals 5: Osteoblasts and bone formation</td>
<td>CONGRESS HALL</td>
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<tr>
<td>12.30</td>
<td>ECTS AGM</td>
<td>CONGRESS HALL</td>
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<tr>
<td>13.00</td>
<td>Meet the Professor Sessions</td>
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<td>13.30</td>
<td>See Programme</td>
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<td>14.00</td>
<td>COFFEE</td>
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<tr>
<td>14.30</td>
<td>Short Orals 1</td>
<td>CONGRESS HALL</td>
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<tr>
<td>15.00</td>
<td>BREAK</td>
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<tr>
<td>15.30</td>
<td>Satellite Symposium 5</td>
<td>CONGRESS HALL</td>
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<tr>
<td>16.00</td>
<td>Supported by Amgen</td>
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<tr>
<td>16.30</td>
<td>Cultural Event/ECTS Football Tournament</td>
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### Saturday 13 May

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>08.00</td>
<td>Registration Open</td>
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<tr>
<td>08.30</td>
<td>Symposium 5: Emerging molecular targets in bone disease</td>
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<tr>
<td>09.00</td>
<td>Orals 6: Hormonal regulations of bone</td>
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<tr>
<td>09.30</td>
<td>Coffee</td>
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<tr>
<td>10.00</td>
<td>Workshop 5: Loading</td>
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<tr>
<td>10.30</td>
<td>Workshop 6: Craniofacial diseases</td>
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<tr>
<td>11.00</td>
<td>Lunch &amp; Posters</td>
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<td>11.30</td>
<td>Symposium 6: Matrix disorders</td>
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<td>12.00</td>
<td>Orals 7: Genetics</td>
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<td>12.30</td>
<td>Coffee</td>
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<tr>
<td>13.00</td>
<td>Short Orals 2</td>
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<td>13.30</td>
<td>Clinical Cases</td>
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<tr>
<td>14.00</td>
<td>Break</td>
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<tr>
<td>15.00</td>
<td>Satellite Symposium 6 Supported by Nycomed</td>
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<tr>
<td>15.30</td>
<td>Conference Party</td>
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<tr>
<td>16.00</td>
<td>Meet the Professor Sessions See Programme</td>
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SUNDAY 14 MAY

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21.00

POSTERS
EXHIBITION AND POSTER HALL

Symposium 7:
Can we afford to treat osteoporosis?
CONGRESS HALL

COFFEE

Hot Topics
CONGRESS HALL

Closing Ceremony
CONGRESS HALL

Satellite Conference:
Anabonos/Osteogene
CLUB A

REGISTRATION OPEN
### Satellite Meetings

**08.55-18.05**
ECTS Training Course: Genetic aspects of bone disease  
**CLUB A**

**11.30-12.30**
Allied Health Professionals session  
**PANORAMA HALL**

### Satellite Symposium 1

Supported by the  
Alliance for Better Bone Health (P&GP and sanofi-aventis)  
**CONGRESS HALL**

### Satellite Symposium 2

Supported by Eli Lilly  
**CONGRESS HALL**

### Satellite Symposium 3

Supported by Roche/GSK  
**CONGRESS HALL**

### Opening Ceremony and Awards

Keynote address: Howard Jacobs (Tampere, Finland)  
**CONGRESS HALL**

### Welcome Reception

**GROUND FLOOR**
08.55 - 18:05
ECTS TRAINING COURSE
Genetic aspects of bone disease: methods and applications

08:55 - 09:00
INTRODUCTION AND WELCOME
Stuart Ralston (Edinburgh, UK)

09:00 - 10:30 CLUB ROOM A - FIRST FLOOR
ASSOCIATION ANALYSIS
Chair: André Uitterlinden (Rotterdam, Netherlands)

09:00 PROSPECTS FOR GENOME WIDE ASSOCIATION ANALYSIS OF COMPLEX DISEASE GENES
Doug Easton (Cambridge, UK)

09:45 ESTIMATING EFFECTS OF RISK ALLELES IN POPULATIONS USING MULTICENTRE APPROACHES AND BY META ANALYSIS
John Ioannidis (Ioannina, Greece)

10:30 - 10:45 FOYER A - FIRST FLOOR
COFFEE BREAK

10:45 - 13.10 CLUB ROOMS A, B, C, D, H - FIRST FLOOR
MEET THE EXPERT SESSIONS
Concurrent sessions: 10:45-11:10; 11:15-11:40; 11:45-12:10; 12:15-12:40; 12:45-13:10
Participants divide into 5 groups and rotate around each session

Club Room A DESIGNING YOUR STUDY
Doug Easton (Cambridge, UK)

Club Room B GETTING YOUR DATA: GENOTYPING GENOMES AND SNPS
André Uitterlinden (Rotterdam, Netherlands)

Club Room C SPECIAL ISSUES: FINDING CANDIDATE GENE SNPS, HAPMAP AND HAPLOTYPES
Joyce van Meurs (Rotterdam, Netherlands)

Club Room D ANALYSING YOUR RESULTS
John Ioannidis (Ioannina, Greece)

Club Room H FUNCTIONAL ANALYSIS OF POLYMORPHISMS
Omar Albagha (Edinburgh, UK)
WEDNESDAY 10 MAY 2006

13.10 - 13:45 GLORIA RESTAURANT - FIRST FLOOR

LUNCH

13:45 - 15:15 CLUB ROOM A - FIRST FLOOR

FAMILY-BASED APPROACHES IN MICE AND MEN
Chair: Stuart Ralston (Edinburgh, UK)

13:45 IDENTIFYING GENES THAT REGULATE BMD BY GENETIC ANALYSIS OF MICE: PROGRESS AND PITFALLS
Robert Klein (Oregon, USA)

14:30 USING FAMILY BASED APPROACHES FOR THE IDENTIFICATION OF COMPLEX DISEASE GENES
Matt Brown (Brisbane, Australia)

15:15 - 15:30 FOYER A - FIRST FLOOR

COFFEE BREAK

15:30 - 18.00 CLUB ROOMS A, B, C, D, H - FIRST FLOOR

MEET THE EXPERT SESSIONS

Concurrent sessions: 15:30-15:55; 16:00-16:25; 16:30-16:55; 17:00-17:25; 17:30-17:55
Participants divide into 5 groups and rotate around each session

Club Room A POSITIONAL CLONING OF MONOGENIC DISEASES
Wim Van Hul, (Antwerp, Belgium)

Club Room B HERITABILITY ANALYSIS FOR THE UN-INITIATED
Emma Duncan (Brisbane, Australia)

Club Room C GENOME SCANS: ALL YOU WANTED TO KNOW ABOUT USING SOLAR AND MERLIN BUT WERE AFRAID TO ASK
Iain MacKay (Cambridge, UK)

Club Room D WHEN AND HOW TO USE THE TDT AND QTDT TESTS
Fernando Rivadeneira (Rotterdam, Netherlands)

Club Room H GENETIC ANALYSIS IN MODEL ORGANISMS
Robert Klein (Oregan, USA)

18.00 - 18.05

CLOSING REMARKS
André Uitterlinden (Rotterdam, Netherlands)
### ALLIED HEALTH PROFESSIONALS SESSION

**Chair:** Socrates Papapoulos (Leiden, Netherlands)

### LUNCH BUFFET

Supported by the Alliance for Better Bone Health

### SATELLITE SYMPOSIUM 1

**Are all Bisphosphonates the Same? What is the Emerging Evidence?**

Supported by the Alliance for Better Bone Health (P&GP and Sanofi Aventis)

**Chairs:**
- Robert Lindsay (West Haverstraw, USA)
- Graham Russell (Oxford, UK)

- Determinants of structure-function relationships among bisphosphonates
  - Graham Russell (Oxford, UK)

- Bisphosphonate efficacy and clinical trials for osteoporosis: similarities and differences
  - Steven Boonen (Leuven, Belgium)

- Beyond clinical trials: the importance of real-life effectiveness in managing osteoporosis patients
  - Robert Lindsay (West Haverstraw, USA)

### BREAK

### SATELLITE SYMPOSIUM 2

**Osteoporosis Management: New Advances**

Supported by Eli Lilly

**Chair:** Pierre Delmas (Lyon, France)

- Correlation between bone mineral density changes and antifracture efficacy of antiresorptive agents - an update
  - Ego Seeman (Melbourne, Australia)
MECHANISM OF ACTION OF BONE-FORMING AGENTS - CLINICAL IMPLICATIONS
Juliet Compston (Cambridge, UK)

ONSET, OFFSET, AND SUSTAINED ANTIFRACTURE EFFICACY OF TERIPARATIDE
Robert Lindsay (West Haverstraw, USA)

16:30 - 17:00
BREAK

17:00 - 18:30  CONGRESS HALL - SECOND FLOOR

SATELLITE SYMPOSIUM 3
Optimizing Efficacy in Clinical Practice: the Role of Less Frequently-Dosed Bisphosphonates
SUPPORTED BY ROCHE/GSK

Chair: Socrates Papapoulos (Leiden, Netherlands)

ONCE-MONTHLY IBANDRONATE: EFFICACY WITH A CONVENIENT DOSAGE REGIMEN
Mike Stone (Cardiff, UK)

BRINGING BISPHOSPHONATES TO A BROADER RANGE OF PATIENTS: THE ROLE OF INTRAVENOUS DOSING
Silvano Adami (Verona, Italy)

UNDERSTANDING THE RELATIONSHIP BETWEEN BONE REMODELLING, BMD AND FRACTURE EFFICACY
Marc Hochberg (Baltimore, USA)

ADDRESSING THE PATIENTS’ NEEDS FOR BETTER CLINICAL OUTCOMES. THE ROLE OF ADHERENCE IN ACHIEVING ANTIFRACTURE EFFICACY
Gerolamo Bianchi (Genova, Italy)

SUMMARY: THE EVOLUTION OF PATIENT MANAGEMENT WITH NOVEL BISPHOSPHONATE DOSING REGIMENS
Socrates Papapoulos (Leiden, Netherlands)

18:30 - 19:00
BREAK
OPENING CEREMONY AND AWARDS

Chairs:  
ECTS President: Richard Eastell (Sheffield, UK)
Scientific Programme Chairman:
Stuart Ralston (Edinburgh, UK)
Local Organising Committee Chairman:
Jan Stepan (Prague, Czech Republic)

Presentation of Awards:
ECTS Career Establishment Award
ECTS/Alliance for Better Bone Health Iain Boyle Award
ECTS/Amgen Bone Biology Fellowship

I001  KEYNOTE ADDRESS:
ROLE OF MITOCHONDRIAL DNA IN AGING
H.T. Jacobs*, A.T. Rovio1, A. Wredenberg4, K. Minkkinen1, I. Pyykö2, J.N. Spelbrink1, N.-G. Larsson4, A. Trifunovic4

1Institute of Medical Technology, University of Tampere, Finland;
2Tampere University Hospital, Tampere, Finland;
3Institute of Biomedical and Life Sciences, University of Glasgow, Scotland, UK;
4Dept of Laboratory Medicine, Novum, Karolinska Institute, Huddinge, Sweden

WELCOME RECEPTION
THURSDAY 11 MAY 2006

08.00
08.30
Symposium 1:
Gender and bone
CONGRESS HALL

09.00
09.30
Orals 1:
Osteoporosis
CONGRESS HALL

10.00
10.30
COFFEE

11.00
11.30
Workshop 1:
Paediatric bone diseases: children’s problems and future outcomes
CONGRESS HALL
Workshop 2: Aging
PANORAMA HALL

12.00
12.30
LUNCH &
POSTERS
EXHIBITION AND
POSTER HALL

Meet the
Professor
Sessions
See Programme

13.00
13.30
Symposium 2:
Cancer and bone
CONGRESS HALL

14.00
14.30
Orals 2:
Stem cells and cancer
CONGRESS HALL

15.00
15.30
COFFEE

16.00
16.30
Orals 3:
Anabolic agents
CONGRESS HALL

17.00
17.30
BREAK

18.00
18.30
Satellite Symposium 4
Supported by MSD
CONGRESS HALL

19.00
19.30
20.00
20.30
21.00
08:00 - 08:30  EXHIBITION AND POSTER HALL - SECOND FLOOR

POSTER VIEWING

08:30 - 09:30  CONGRESS HALL - SECOND FLOOR

SYMPOSIUM 1

Gender and Bone

Chairs:  Juraj Payer (Bratislava, Slovakia)
        Stuart Ralston (Edinburgh, UK)

08:30  I002  GENDER SPECIFIC PATTERNS OF AGE-RELATED BONE LOSS
            S. Khosla*1
            1Endocrine Research Unit, Mayo Clinic College of Medicine, Rochester, United States

09:00  I003  BONE MASS ACQUISITION AND FRACTURE RISK IN CHILDHOOD: GENDER DIFFERENCES
            S. L. Ferrari*1
            1Service of Bone Diseases, WHO Collaborating Center for Osteoporosis Prevention, Geneva University Hospital, Geneva, Switzerland

09:30 - 10:30  CONGRESS HALL - SECOND FLOOR

ORAL COMMUNICATIONS 1

Osteoporosis

Chairs:  Juraj Payer (Bratislava, Slovakia)
        Stuart Ralston (Edinburgh, UK)

09:30  OC001  SERUM TESTOSTERONE IS ASSOCIATED WITH FRACTURE RISK IN ELDERLY MEN: THE DUBBO OSTEOPOROSIS EPIDEMIOLOGY STUDY
            C. Meier1, T. V. Nguyen1, M. Jimenez2, J. R. Center2, D. J. Handelsman3, M. J. Seibel4*, J. A. Eisman2
            1Clinic for Endocrinology and Diabetes, University Hospital, Basel, Switzerland, 2Bone and Mineral Research Program, Garvan Institute of Medical Research, St. Vincent's Hospital and UNSW, 3Department of Andrology, 4Bone Research Program, ANZAC Research Institute, University NSW, Sydney, Australia

09:42  OC002  EFFECT OF ANASTROZOLE ON BONE MINERAL DENSITY: 5-YEAR RESULTS OF THE 'ARIMIDEX' (ANASTROZOLE), TAMOXIFEN, ALONE OR IN COMBINATION (ATAC) TRIAL
            R. Eastell5*, R. A. Hannon1, J. Cuzick6, G. Clack7, J. Adams8
            1Academic Unit of Bone Metabolism, University of Sheffield, Sheffield, 2Statistics Unit, Cancer Research UK, London, 3Oncology Department, Astrazeneca, Macclesfield, 4Radiology Department, University of Manchester, Manchester, United Kingdom
09:54 OC003 AN MTHFR GENETIC VARIANT INTERACTS WITH DIETARY B2 INTAKE TO DETERMINE FRACTURE RISK
N. Yazdanpanah1, A. G. Uitterlinden1, J. Lindemans2, H. A. P. Pols1, J. B. J. Van meurs*
1Internal Medicine, 2Clinical Chemistry, ErasmusMC, Rotterdam, Netherlands

10:06 OC004 MULTILOCUS ANALYSIS: A NOVEL APPROACH IN GENETICS OF OSTEOPOROSIS
1Internal Medicine, Erasmus MC, Rotterdam, 2Medical Statistics, Leiden University Medical Center, Leiden, Netherlands

10:18 OC005 MATERNAL VITAMIN D DEFICIENCY IS ASSOCIATED WITH REDUCED FETAL GROWTH
J. D. Wark*, R. Morley2, J. Carlin3, J. Pascoe4
1Department of Medicine, 2Clin Epidemiology and Biostatistics, 3Clinical Epidemiology and Biostatistics, The University of Melbourne, Melbourne, 4Clinical and Biomedical Sciences, Barwon Health, Geelong, Australia

10:30 - 11:00 Coffee Break

11:00 - 12:30 CONGRESS HALL - SECOND FLOOR

WORKSHOP 1
Paediatric Bone Diseases: Children's Problems and Future Outcomes

Chairs: Milan Bayer (Prague, Czech Republic)
         Maria Luisa Bianchi (Milan, Italy)

11:00 I004 INFLAMMATORY DISEASES IN CHILDHOOD AND THEIR IMPACT ON BONE
F. De Benedetti*
1Direzione Scientifica, IRCCS Ospedale Pediatrico Bambino Gesù, Roma, Italy

11:30 I005 PRIMARY BONE DISEASES IN CHILDREN
N. J. Bishop*
1Academic Unit of Child Health, University of Sheffield, Sheffield, United Kingdom

12:00 I006 THE SPECTRUM OF KIDNEY DISEASES AND BONE IN CHILDREN
C. B. Langman*
1Kidney Diseases, Feinberg School of Medicine, Northwestern University & Children’s Memorial Hospital, Chicago, United States
THURSDAY 11 MAY 2006

11:00 - 12:30  PANORAMA HALL - FIRST FLOOR

WORKSHOP 2
Aging

Chairs: Pierre Marie (Paris, France)  Tim Spector (London, UK)

11:00 I007  ENDOCRINE REGULATION OF C. ELEGANS DEVELOPMENT AND AGING
A. Antebi*1
1Huffington Center on Aging, Dept. of Molecular and Cellular Biology, Baylor College of Medicine, Houston, United States

11:30 I008  THE ROLE OF CELLULAR SENESCENCE IN WERNER’S SYNDROME: TOWARDS THERAPEUTIC INTERVENTION IN HUMAN PREMATURE AGING
D. Kipling*1, T. Davis1, D. M. Baird1, M. F. Haughton1, C. J. Jones1
1Pathology, School of Medicine, Cardiff University, Cardiff, United Kingdom

12:00 I009  THE AGING OSTEOBLAST
M. Kassem*1
1Department of Endocrinology and Metabolism, University Hospital of Odense, Odense, Denmark

12:30 - 14:00  EXHIBITION AND POSTER HALL - SECOND FLOOR

LUNCH & POSTERS

The following posters will be manned 13:00-14:00

P001  DECREASED FRACTURE RISK IN PATIENTS TREATED WITH ORAL NITRATES
L. Rejnmark*1, P. Vestergaard1, L. Mosekilde2
1The Osteoporosis Clinic, 2Dept of Endocrinology and Metabolism C, University Hospital of Aarhus, Aarhus, Denmark

P002  MECHANISMS OF PYROPHOSPHATE INHIBITION OF MINERALIZATION IN MC3T3-E1 OSTEOBLAST CULTURES
W. N. Addison1, F. Azari1, M. T. Kaartinen1, M. D. McKee*1
1Faculty of Dentistry, McGill University, Montreal, Canada

P003  STRONTIUM RANELATE REDUCES NEW VERTEBRAL FRACTURES IN A SEVERE OSTEOPOROTIC MICE MODEL WITH SPONTANEOUS FRACTURES BY IMPROVING BONE MICROARCHITECTURE
V. Geoffroy*1, C. Marty1, A. Lalande2, M. C. De Vernejoul1
1INSERM U606, Hospital Lariboisiere, Paris, 2Groupe Servier, Rheumatology Division, Courbevoie, France
P004 INCREMENTAL PROGNOSTIC VALUES OF RISK FACTORS-BASED MODEL FOR THE PREDICTION OF FRACTURE
N. D. Nguyen*1, J. A. Eisman1, J. R. Center1, T. V. Nguyen1
1Bone and Mineral Research Program, Garvan Institute of Medical Research, Sydney, Australia

P005 HIGH RESOLUTION GENOTYPING OF THE ESR1 GENE AND ASSOCIATION WITH HEIGHT
L. Stolk*1, J. B. J. Van Meurs1, A. Hofman1, H. A. P. Pols1, A. G. Uitterlinden1
1Internal Medicine, 2Epidemiology and Biostatistics, Erasmus MC, Rotterdam, Netherlands

P006 EVIDENCE THAT A POLYMORPHISM IN THE LACTASE PHLOREXIN HYDROLASE GENE CAUSES DIFFERENCES IN HEIGHT INDEPENDENT OF CURRENT CALCIUM INTAKE
W. N. H. Koek*1, J. B. Van Meurs1, B. C. J. Van der Eerden1, A. G. Uitterlinden1, H. A. P. Pols1, J. P. T. M. Van Leeuwen1
1Internal Medicine, Erasmus MC, Rotterdam, Netherlands

P007 A SINGLE DOSE OF ZOLEDRONIC ACID 5 MG ACHIEVES MORE SUSTAINED BIOCHEMICAL REMISSION VERSUS DAILY 30MG RISEDONATE IN PATIENTS WITH PAGET’S DISEASE
I. Reid*1, P. Miller2, J. Brown1, W. Fraser4, D. Hosking5, J. P. Devogelaer6, C. Moniz7, M. Hooper8, J. Pak9, J. Davis10, T. Fashola9, J. Krasnow10, K. Zelenakas10, K. Lyles11
1Faculty of Medicine and Health Sciences, University of Auckland, Auckland, New Zealand, 2Colorado Center for Bone Research, Lakewood, CO, United States, 3Le Centre Hospitalier Universitaire de Quebec, Sainte-Foy, Quebec, Canada, 4Royal Liverpool, University Hospital, Liverpool, 5Nottingham, City Hospital, Nottingham, United Kingdom, 6Cliniques Universitaires, St. Luc, Brussels, Belgium, 7Kings College, Hospital, London, United Kingdom, 8Repatriation General Hospital, Concord, Australia, 9Novartis Pharma AG, Basel, Switzerland, 10Novartis Pharmaceuticals Corporation, East Hanover, New Jersey, 11Duke University and VA Medical Centers, Durham, NC, United States

P008 ANDROGEN RECEPTOR POLYMORPHISM: ASSOCIATION WITH LEAN MASS AND BONE MASS IN MEN OF AFRICAN HERITAGE
1Epidemiology and Human Genetics, 2Epidemiology, University of Pittsburgh, Pittsburgh, United States, 3Epidemiology, Tobago Health Studies Office, Scarborough, Trinidad and Tobago, 4Human Genetics, University of Pittsburgh, Pittsburgh, United States

P009 CALCITONIN PROTECTS AGAINST EXPERIMENTALLY INDUCED OSTEOARTHRITIS
B. C. Sondergaard*1, K. Henrichsen1, H. Wulff1, S. Oestergaard1, L. B. Tanko1, P. Qvist1, C. Christiansen1, M. A. Karsdal1
1Pharmacology, Nordic Bioscience, Herlev, Denmark
P010  EPIGENETICS: A MOLECULAR TARGET IN OSTEOARTHRITIS?
H. I. Roach*, N. Yamada, K. S. Cheung, R. O. Oreffo, F. Bronner
1Bone and Joint Research Group, University of Southampton, Southampton, United Kingdom, 2Orthopaedic Dept, Tohoku University, Sendai, Japan, 3Health Center, University of Connecticut, Farmington, United States

P011  SKELETAL STEM CELLS AND HEMATOPOIESIS:
A STEM CELL-MAINTAINED STEM CELL NICHE
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P012  EVIDENCE THAT ACTIVATION OF THE CANONICAL WNT SIGNALLING PATHWAY MAY HAVE DIRECT EFFECTS ON OSTEOCLASTS FROM REGENERATING BONE
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P013  INCREASED BONE FORMATION IN TRANSGENIC MICE EXPRESSING THE TRANSCRIPTION FACTOR FRA-2:
IDENTIFICATION OF TARGET GENES USING TRANSCRIPTOME ANALYSIS
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P014  TRABECULAR BONE OF MALE MICE IS NOT RESPONSIVE TO MECHANICAL LOADING
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P015  PTH A MEDIATOR OF BONE ANABOLIC EFFECT OF PAMIDRONATE IN ADULT RATS FED A LOW PROTEIN DIET
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P016  DELIVERY OF COMMITTED HUMAN OSTEOCLAST PRECURSORS INTO THE BONE MARROW OF NEWBORN MOUSE MODELS OF AUTOSOMAL RECESSIVE OSTEOPTEROSIS
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P017 ROLE OF DLK1 (EGF-LIKE HOMEOTIC PROTEIN) IN BONE MARROW MICROENVIRONMENT: THE IMMUNOMODULATORY EFFECT OF DLK1 ON HUMAN MESENCHYMAL STEM CELLS
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P018 CHARACTERIZATION OF AGE-DEPENDENT OSTEOPOROSIS IN STEM CELL ANTIGEN-1 NULL MICE
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P019 THE CYSTEINE-RICH PROTEIN CYR61 IS A NOVEL INHIBITOR OF OSTEOCLAST DIFFERENTIATION
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P020 MICROGRAVITY STIMULATES OSTEOCLASTOGENESIS AND BONE RESORPTION BY INCREASING RANKL/OPG RATIO IN OSTEOBLAST PRIMARY CULTURES
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P021 THE EFFECTS OF OVARIECTOMY AND TAMOXifen ON BONE TISSUE IN THE RAT: A HISTOMORPHOMETRIC AND HISTOPATHOLOGICAL STUDY
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P022 PREDICTION MODELS FOR EVALUATION OF TOTAL BODY BONE MASS WITH DUAL-ENERGY X RAY ABSORPTIOMETRY AMONG CHILDREN AND ADOLESCENTS
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P023 CALCIFICATION OF SHARPEY’S FIBRES AND PERIOSTEUM WITH AGE IN THE PORCINE MANDIBLE
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P024 IMPLANTATION OF OCTACALCIUM PHOSPHATE (OCP) ENHANCES LONG BONES REPAIR IN THE RATS
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P025 VITAMIN K ANALOGUES PROMOTE THE DIFFERENTIATION OF PRIMARY HUMAN OSTEOBLASTS
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P026 NITRIC OXIDE PRODUCTION BY BONE CELLS IN RESPONSE TO TRANSLATIONAL VIBRATION
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P027 EFFECTS OF HIGH PHOSPHORUS AND/OR LOW CALCIUM DIETS ON TRAINED RAT BONE TISSUE.
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P028 EXPRESSION OF DOMINANT NEGATIVE MUTANT FORM OF RUNX2 INCREASES GSALPHA PROTEIN EXPRESSION AND CAMP ACCUMULATION ON SAOS-2 CELLS
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P029 TERIPARATIDE NASAL SPRAY: PHARMACOKINETICS AND SAFETY VERSUS SUBCUTANEOUS TERIPARATIDE IN HEALTHY VOLUNTEERS
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P030 OSTEOBLAST APOPTOSIS ASSAY IN CELL CULTURE SYSTEM
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P031 HUMAN EMBRYONIC STEM CELL-DERIVED CONNECTIVE TISSUE PROGENITORS FOR TISSUE ENGINEERING
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P032 REGULATION OF OSTEOBLAST DIFFERENTIATION BY THE RHO/RHO KINASE SIGNALLING PATHWAY
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P033 DEVELOPMENT OF A BONE GRAFT SUBSTITUTE: OPTIMIZATION OF THE GROWTH OF HUMAN OSTEOBLASTS ON A 3D COLLAGEN SCAFFOLD
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P034 EFFECTS OF HYALURONAN ON THREE-DIMENSIONAL MICROARCHITECTURE OF SUBCHONDRAL BONE TISSUES IN GUINEA PIG PRIMARY OSTEOARTHRITIS
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P035 PRECONDITIONING EXERCISE AND ANATOMIC SITE RELATE TO MINERALISATION AND THICKNESS IN EQUINE THIRD METACARPAL ARTICULAR CALCIFIED CARTILAGE
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P036 EFFECT OF SILICON ON OSTEOBLAST SURVIVAL AND ADHESION IN VITRO
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P037 MESENCHYMAL STEM CELLS SEEDED ON BONE GRAFTS FOR FILLING CRITICAL BONE DEFECTS IN MICE
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P038 DEVELOPMENTAL REGULATION OF MMP13/COLLAGENASE3 BY TRIIODOTHYRONINE (T3) AND RUNX2/CBFA1 IN MOUSE OSTEOBLASTIC MC3T3-E1 CELLS
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P039 IDENTIFICATION OF REGULATORY GENES INVOLVED IN HUMAN BONE AND ECTOPIC GLUCOCORTICOID-INDUCED MINERALIZATION

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P040 ALENDRONATE EFFECT IN OPG/RANKL GENE EXPRESSION. STUDY IN PRIMARY HUMAN OSTEOBLASTS IN CULTURE


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P041 EFFECTS OF STANDARD HEPARIN AND A LOW-MOLECULARWEIGHT HEPARIN ON ACTIVITY OF MOUSE OSTEOBLASTS IN VITRO


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P042 EXPRESSION OF PERIOSTIN IN OSTEOBLASTS AND OSTEOSARCOMA CELL LINES AND ITS REGULATION BY PTH

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P043 TREATMENT OF OSTEOPENIC Rhesus Monkeys WITH PARATHYROID HORMONE 1-84 FOR 16 MONTHS IMPROVES VERTEBRAL TRABECULAR BONE QUANTITY AND QUALITY


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P044 REGULATION OF ATP RELEASE FROM HUMAN OSTEOBLASTS: A CALCIUM DEPENDANT, EXOCYTOTIC VESICULAR MECHANISM

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THURSDAY 11 MAY 2006
P045  BONE TISSUE ENGINEERING - WHEN CELLS AND MATERIALS JUST AIN'T ENOUGH
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P046  GENE EXPRESSION OF OSTEOBLAST TRANSCRIPTION FACTORS RUNX2 AND OSTERIX IN MODELS OF OSTEOBLAST DIFFERENTIATION AND IMPACT OF RUNX2 KNOCK DOWN
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P047  FRIZZLED-RELATED PROTEIN 3 GENE POLYMORPHISM AND RISK OF OSTEOLOYSIS AFTER TOTAL HIP ARTHROPLASTY
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P048  IRON INHIBITS HYDROXYAPATITE CRYSTAL GROWTH IN VITRO
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P049  Evidence for involvement of a factor X in the propagation of the osteoarthritic phenotype
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P050  BOTH DIRECT AND COLLAGEN-MEDIATED SIGNALS ARE REQUIRED FOR ACTIVE VITAMIN D3-ELICITED DIFFERENTIATION OF HUMAN OSTEOBLASTIC CELLS
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P051  HIGHLY SPECIFIC TNFSF14 ELISA DESIGNED BY BIOINFORMATICS - A NEW TOOL FOR BONE RESEARCH
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P052 APOLIPOPROTEIN E DEFICIENCY MICE GIVEN HIGH-FAT DIET CAUSE MATURATION ARREST IN OSTEOBLASTS, LOW ENDCORTICAL BONE FORMATION AND OSTEOPENIA

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P053 GENOME-WIDE ANALYSIS OF SHOCK WAVE-INDUCED GENE EXPRESSION IN HUMAN OSTEOBLAST CULTURES FROM HYPERTROPHIC FRACTURE NON-UNIONS

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P054 REDUCED FAILURE INDEX FROM LOCALIZED BONE LOSS CANNOT BE OVERCOME BY UNIFORM BONE FORMATION

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P055 POSSIBLE INVOLVEMENT OF CELL DEATH IN PHOSPHATE-INDUCED CRYSTAL FORMATION IN A CELL CULTURE SYSTEM

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P056 BMP-2-MEDIATED REGULATION IN OSTEOGENESIS OF HUMAN MESENCHYMAL STEM CELLS UNDER DEXAMETHASONE-FREE CONDITION

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P057 INORGANIC PHOSPHATE STIMULATES TRANSCRIPTION OF MATRIX GLA PROTEIN GENE IN GROWTH PLATE CHONDROCYTES THROUGH THE ERK SIGNALING PATHWAY
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P058 REGULATION OF MINERALIZATION BY TRANSGLUTAMINASES IN OSTEOBLAST CULTURES
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P059 HARMFUL EFFECT OF FLUORIDE ON FORMATION OF APATITE CRYSTALS
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P060 ANDROGEN RECEPTOR COORDINATES BOTH OSTEOBLASTIC DIFFERENTIATION AND MINERALIZATION
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P061 BONE ULTRASTRUCTURE BY RAMAN IMAGING
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P062 COMPLEMENTARY INFORMATION ON IN VITRO CONVERSION OF AMORPHOUS CALCIUM PHOSPHATE TO HA FROM RAMAN MICROSPECTROSCOPY AND WIDE ANGLE SCATTERING
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P063 ISOLATION AND CHARACTERIZATION OF MESENCHYAML STEM CELLS DERIVED FROM UMBILICAL CORD BLOOD
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P064 OSTEOSTEOSIS VERSUS CHONDROGENESIS BY BMP-2 AND BMP-7 IN ADIPOSE STEM CELLS

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P065 POLYSACCHARIDES AS NANOCOATINGS OF BONE IMPLANTS

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P066 EFFECTS OF CHANGES IN MECHANICAL LOADING ON ENDOCHONDRALE BONE FORMATION IN HINDLIMB-SUSPENDED RATS

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P067 LONG CHAIN POLYUNSATURATED FATTY ACIDS AFFECT CYTOKINE AND TYROSINE KINASE ACTIVITY IN MC3T3-E1 PRE-OSTEOBLAST CELLS

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P068 MEMBRANE-ANCHORED NEUTRAL ENDOPEPTIDASE NEPRILYSIN (NEP) IS UP-REGULATED IN HUMAN OSTEOBLAST CULTURES AFTER EXTRACORPOREAL SHOCK WAVE THERAPY

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P069 EXPERIMENTAL BONE CELL MODEL TO STUDY GENE EXPRESSION IN THE DIFFERENTIATION PATHWAY AFTER X-IRRADIATION

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P070 STRO-1 EXPRESSION IS ALTERED DURING OSTEOBLASTIC DIFFERENTIATION OF HUMAN MESCNYMAL STEM CELLS

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P071 RESPONSE OF MESENCHYMAL STEM CELL DERIVED OSTEOBLASTS TO SEX HORMONES IS INFLUENCED BY ESTROGEN RECEPTOR GENOTYPE


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P072 THE MATERIAL LITAR USED IN THE COURSE OF REPLACING BIG BONE TISSUE DEFECTS

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P073 MATHEMATICAL DESCRIPTION OF BONE FORMATION IN RATS

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P074 EFFECTS OF FGF-2 RELEASE FROM A SYNTHETIC POLYMER ON BONE MASS AND MICROARCHITECTURE

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P075 DIFFERENTIATION OF HUMAN EMBRYONIC STEM CELLS INTO OSTEOBLASTS

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P076 DYNAMICALLY APPLIED PRESSURE AFFECTS THE ARCHITECTURE AND OSTEOGENIC DIFFERENTIATION OF HUMAN BONE CELLS

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P077 MICRO-MECHANICAL PROPERTY OF FRACTURE CALLUS IN HEALING BONE

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P078 DO POLYGLUTAMINE TRACTS IN HUNTINGTIN INFLUENCE GLUTAMATE SIGNALLING IN BONE?

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DO OSTEOCYTES CULTURED IN 3D TYPE I COLLAGEN GELS ACTIVATE GLUTAMATE-MEDIATED SIGNALLING PATHWAYS IN RESPONSE TO COMPRESSIVE LOADING?

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EVIDENCE OF SNARE-DEPENDENT GLUTAMATE RELEASE MECHANISMS IN MEGAKARYOCYTES AND PARACRINE SIGNALLING THROUGH HETEROTYPIC INTERACTIONS WITH MESENCHYMAL STEM CELLS

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IDENTIFICATION AND FUNCTIONAL ANALYSIS OF PROCESSED AMYLOID PRECURSOR PROTEIN FRAGMENTS IN OSTEOBLASTS

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MICROTOMOGRAPHY PROVIDES THREE-DIMENSIONAL IMAGING REPRESENTATION OF BONE INGROWTH IN CALCIUM PHOSPHATE BIOMATERIALS


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THE MATURATION OF THE MINERAL PARTICLES IN BONE TISSUE FROM HEALTHY INDIVIDUALS AND CASES OF CELIAC AND PAGET’S DISEASE

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P086 THE INFLUENCE OF IMPLANT MATERIAL ON EXTRACELLULAR MATRIX ADSORPTION AND CONFORMATION IN VITRO
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P087 THE PERICHONDRALE RING OF LACROIX AS EXPRESSION OF MEMBRANOUS OSSIFICATION IN THE ENDOCHONDRALE BONES
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P091 EXTRACELLULAR NUCLEOTIDES INHIBIT MINERALISATION OF BONE NODULES FORMED BY RAT OSTEOBLASTS
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P093 PROTEASE-ACTIVATED RECEPTOR-INDEPENDENT INDUCTION OF INTERLEUKIN-6 IN OSTEOBLASTS BY THROMBIN
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P095 MECHANICAL AND HISTOMORPHOMETRIC CHARACTERIZATION OF TRABECULAR BONE OF THE FEMORAL HEAD OF OSTEOARTHRITIC PATIENTS
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P096 DIGITAL X-RAY RADIOGRAMMETRY (DXR) FOR DETECTION OF PERIARTICULAR DEMINERALIZATION IN EARLY RHEUMATOID ARTHRITIS
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P097 QUANTIFYING PERIARTICULAR DEMINERALIZATION USING DIGITAL X-RAY RADIOGRAMMERTY AND PERIPHERE MULTI-SITE QUANTITATIVE ULTRASOUND IN RHEUMATOID ARTHRITIS
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P099  LONGITUDINAL STUDY FOR DETECTION OF JUXTA-ARTICULAR DEMINERALIZATION AND JOINT SPACE NARROWING BY DIGITAL X-RAY RADIOGRAMMETRY (DXR) AND RADIOGRAMMETRY KIT (RK) IN RHEUMATOID ARTHRITIS
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P100  EVIDENCE FOR THE PRESENCE OF PURE PRE-OSTEOBLASTIC OR PURE PRE-ADIPOCYTIC CELL POPULATIONS AMONG MOUSE BONE MARROW MESENCHYMAL STEM CELLS
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P101  EVIDENCE FOR IN VITRO OSTEOGENESIS BY HUMAN MESENCHYMAL STEM CELLS IN 3D-CULTURES
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P102  MECHANICAL LOADING INHIBITS BONE ELONGATION THROUGH THE REGULATION OF CHONDROCYTE PROLIFERATION
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P103  MECHANICAL STIMULATION OF RAT BONE: DIFFERENTIAL GENE-EXPRESS
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P105 BONE MATERIAL PROPERTIES IN BRUCK SYNDROME: A CASE REPORT

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P106 QUANTITATIVE ANALYSES OF SECRETED PROTEINS FROM HUMAN MESENCHYMAL STEM CELLS: EFFECTS OF DLK- EXPRESSION

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P107 TIME EVOLUTION OF THE BONE MINERALIZATION DENSITY DISTRIBUTION DUE TO HIGH-TURNOVER DISEASES AND ANTiresorPTIVE THERAPY

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P108 QUANTITATIVE ASSESSMENT OF FORMATION AND RESORPTION SURFACES AND OSTEOCYTE 3D DISTRIBUTION IN THE MOUSE FIBULA FROM NANO-CT IMAGING

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P109 IMPLANTATION OF OCTACALCIUM PHOSPHATE (OCP) ENHANCES ALVEOLAR RIDGE IN RAT MANDIBLE

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P110  BONE MINERAL DENSITY IN CHILDREN WITH CHRONIC NON-SPECIFIC LUNG DISEASES
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P111  CLINICAL SIGNIFICANCE OF OSTEODENSITOMETRY IN CHILDREN
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P112  MICROARRAY ANALYSIS OF GENE EXPRESSION IN OSTEOBLAST CULTURES FROM PATIENTS WITH HYPERTROPHIC FRACTURE NON-UNIONS
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P113  MYELOID PROGENITOR CELLS SUPPRESS OSTEOGENIC DIFFERENTIATION OF MESENCHYMAL PROGENITOR CELLS
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P114  IMMUNOLOCALIZATION OF SCLEROSTIN (SOST) IN CARTILAGE AND BONE OF RATS TREATED WITH INTERMITTENT PTH ADMINISTRATION
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P115  DIFFERENTIAL REGULATION OF MMPS IN CHONDROCYTES AND THEIR INVOLVEMENT IN THE DEVELOPMENT OF TIBIAL DYSCHONDROPLASIA IN BROILERS AND TURKEYS
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P116 ENDOSTATIN RETARDS THE CARTILAGE PHASE IN THE MODEL OF ECTOPIC OSSIFICATION
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P117 POSTNATAL CATCH-UP IN PIGLETS BONE DEVELOPMENT AFTER PRENATAL DEXAMETHASONE TREATMENT

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P118 DEXAMETHASONE (DEX) AND ALPHA-KETOGLUTARATE (AKG) INFLUENCE THE BONE DEVELOPMENT DURING BOTH MATERNAL AND NEONATAL ADMINISTRATION IN PIGS

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P119 OOPHORECTOMY AND VITAMIN D3 DEFICIENCY DO NOT AFFECT THE REPARATIVE PHASE OF FRACTURE HEALING IN RATS


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P120 PRENATAL ADMINISTRATION OF 3-HYDROXY-3-METHYLBUTYRATE (HMB) TO PIGS INCREASES PEAK BONE MASS IN OFFSPRING

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P121 ALPHA-KETOGLUTARATE (AKG) ADMINISTRATION TO PREGNANT SOWS INCREASES MINERALIZATION, GEOMETRICAL AND MECHANICAL ENDURANCE OF SKELETON IN THEIR OFFSPRING

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P122 FUNDECTOMY INDUCES OSTEOPENIA OF AXIAL SKELETON IN PIGS

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P123 POST-GASTRECTOMY OSTEOPENIA OF FEMUR IN PIGS

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P124 MORPHOLOGICAL DIVERSITY OF HYPERTROPHIC CHONDROCYTES IN GROWTH CARTILAGE
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P125 THE INFLUENCE OF EXTREMELY LOW FREQUENCY MAGNETIC FIELD ON THE MINERALIZATION PROCESS
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P126 THE EFFECTIVENESS OF COX-2 INHIBITIONS IN THE PREVENTION OF HETEROTOPIC OSSIFICATION, AN EXPERIMENTAL STUDY IN RABBITS
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P127 EVALUATION OF PHOTOPOLYMERS, CAPABLE FOR RAPID PROTOTYPING ON PROLIFERATION AND MORPHOLOGY OF OSTEOBLASTS
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P128 INTERCELLULAR COMMUNICATION IN OSTEOCYTES AFTER MECHANICAL STIMULATION
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P129 BMP-6 INDUCES NEW BONE FORMATION IN OVARIECTOMIZED MICE AND ENHANCES DIFFERENTIATION OF PRIMARY HUMAN OSTEOBLASTS THROUGH ACTIVATION OF IGF-1 AND EGF PATHWAYS
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P130 HOW THE BEHAVIOR OF OSTEOCLASTS AND OSTEOBLASTS INFLUENCES THE ARCHITECTURE OF TRABECULAR BONE
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P131 MODULATION OF VEGF ISOFORM AND RECEPTORS mRNA EXPRESSION DURING OSTEBLAST DIFFERENTIATION IN A MONO-AND CO-CULTURAL MODEL WITH MICROVASCULAR ENDOTHELIAL CELLS

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P132 SERUM PROTEIN ADSORPTION TO HYDROXYAPATITE-COMPOSITE POLYMER SCAFFOLDS

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P133 ROLES OF THE INJURY-INDUCED INFLAMMATORY RESPONSE IN THE BONY REPAIR OF THE GROWTH PLATE CARTILAGE

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P134 SIMVASTATIN PROMOTES THE PROLIFERATION AND MINERALIZATION OF OSTEOBLASTS

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P135 BONE MINERAL AND COLLAGEN QUALITY IN BAPN TREATED RATS

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P136 INVOLVEMENT OF ADAM8 IN OSTEOCLASTOGENESIS

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P137 RANK EXPRESSION IN PERIPHERAL BLOOD AND BONE MARROW MONONUCLEAR CELLS AND IN GIANT CELL TUMOUR OF BONE: RELEVANCE TO A PRE-OSTEOCLAST PHENOTYPE
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P138 RED DEER BIOLOGY FOR BIOMEDICAL RESEARCH ON HUMAN OSTEOPOROSIS
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P139 FACTORS DETERMINING BONE TURNOVER IN AN ELDERY POPULATION - NOT PREVIOUSLY TREATED WITH BISPHOSPHONATES
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P140 THE ASSOCIATION BETWEEN SEVERAL FACTORS AFFECTING AORTIC CALCIFICATION AND BMD IN POSTMENOPAUSAL WOMEN
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P141 PHOSPHORUS IN BODY FLUIDS OF CHILDREN AGED 5-16 YEARS
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P142 VITAMIN D INHIBITS IL-17 PRODUCTION AND STIMULATES IL-4 PRODUCTION BY PERIPHERAL BLOOD MONONUCLEAR CELLS IN EARLY ARTHRITIS PATIENTS
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P143 INVESTIGATIONS INTO THE KINETIC MECHANISM OF INHIBITION OF FARNESYL PYROPHOSPHATE SYNTHASE BY NITROGEN CONTAINING BISPHOSPHONATES


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P144 MOLECULAR MODELING COMPARISON OF NITROGEN-CONTAINING BISPHOSPHONATES OF VARYING POTENCY Co-CRYSTALIZED IN FARNESYL DIPHOSPHATE SYNTHASE


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P145 ANTIRESORPTIVE EFFECTS OF CALCITRIOL ARE INDEPENDENT OF PARATHYROID HORMONE SECRETION IN RATS

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P146 POLYMORPHISMS IN THE INTERLEUKIN-6 GENE PROMOTER AND OSTEOLYSIS AFTER TOTAL HIP ARTHROPLASTY

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P147 ELISA FOR SRANKL WITH TYRAMIDE ENHANCEMENT

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P148 BACTERIAL TWO-HYBRID SYSTEM TO IDENTIFY PARTNERS OF RAB13 IN OSTEOCLASTS

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P149 IL-6 INHIBITS RANKL-INDUCED OSTEOCLASTOGENESIS

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1University of Nantes EA3822 INSERM ERI 7, Medicine Faculty, Nantes, France
P150 CHARACTERIZATION OF OSTEOPROTEGERIN BINDING TO GLYCOSAMINOGLYCANS BY SURFACE PLASMON RESONANCE: ROLE IN THE INTERACTIONS WITH RECEPTOR ACTIVATOR OF NUCLEAR FACTOR KB LIGAND (RANKL) AND RANK
*Université de Nantes EA3822 INSERM ERI 7, Medicine Faculty, 2IFR26, Institut de Biologie, Nantes, France, **Department of Medical Oncology, Christie Hospital NHS Trust, Manchester, United Kingdom, **UMR 5086 CNRS UCBL, Institut de Biologie et Chimie des Protéines, Lyon, France

P151 DETECTION OF CATHEPSIN K IN OSTEOCLASTS BY ELISA AND IMMUNOHISTOCHEMISTRY IN COMMON IN VITRO BONE RESORPTION MODELS
O. Hoffmann*, J. Nguemo*, S. Maitzen*, G. Hawa*
*Pharmacology and Toxicology, University of Vienna, **Research and Development, Biomedica, Vienna, Austria

P152 THE EVALUATION OF OSTEOPOROSIS RISK IN PATIENTS WITH THYROID CANCERS
W. Horst-Sikorska*, W. Nosowicz*, S. Dabrowski*, L. Celczynska-Bajew*
*Family Medicine Department, University of Medical Sciences, Poznan, Poland

P153 VASCULAR CALCIFICATION IN PATIENTS ON HEMODIALYSIS
**Hemodialysis, "Radiology, Clinical hospital Dubrava, Zagreb, Croatia

P154 Abstract withdrawn

P155 EFFECT OF TOPICAL ADMINISTERED CLODRONATE ON THE BONE MINERAL DENSITY AFTER TOTAL HIP ARTHROPLASTY
M. Kellinsalmi*, R. Ojala*, J. Risteli*, M. Hämäläinen*, P. Lehenkari*
*Department of Surgery, **Department of Radiology, "Department of Clinical Chemistry, University Hospital of Oulu, Oulu, Finland

P156 A MOUSE MODEL FOR CRANIOMETAPHYSEAL DYSPLASIA DEMONSTRATES OSTEOBLAST DYSREGULATION AS CAUSE OF HYPEROSTOSIS
**Institute for Medical Genetics, **Centre of Muscle and Bone Research, "Center for Musculoskeletal Surgery, Charite, Berlin, **Cologne Centre for Genomics, University of Cologne, Cologne, **Cologne Centre for Genomics, University of Cologne, Berlin, Germany
P157 TREATMENT OF YOUNG MALE MONKEYS FOR 12 MONTHS WITH A HIGHLY POTENT INHIBITOR OF CATHEPSIN K INHIBITS BONE RESORPTION, AND INCREASES BONE MINERAL DENSITY AND STRENGTH
1R and D, GlaxoSmithKline, Collegeville, 2R and D, MDS Pharma, Bothell, United States

P158 SB-462795 (RELACATIB), A CATHEPSIN INHIBITOR, PREVENTS THE LOSS OF BONE MASS AT SEVERAL SITES IN OVARIECTOMIZED CYCROMOLGUS MONKEYS
S. Kumar*, C. Jerome*, G. Stroup*
1R and D, GlaxoSmithKline, Collegeville, 2R and D, MDS Pharma, Bothell, United States

P159 FIBROBLAST GROWTH FACTOR 8E INCREASES OSTEOCLASTOGENESIS IN VITRO
M. Mattila*, T. Laitala-Leinonen*, K. Buki*, K. Väänänen*, P. Häkönen*
1Dept. Anatomy, Inst. Biomedicine, Turku, Finland

P160 REFINEMENTS IN THE USE OF COLUMN CHROMATOGRAPHY TO EXPOSE DIFFERENCES IN RELATIVE BINDING AFFINITIES OF BISPHOSPHONATES TO HYDROXYAPATITE
1Nuffield Department of Orthopaedic Surgery, University of Oxford, Oxford, United Kingdom, 2New Drug Development, Procter and Gamble Pharmaceuticals, Mason, OH, United States

P161 REGULATION OF BONE BALANCE - SEQUENTIAL MICRONUTRITION
M. Lugand- Bourgeois*
1Research, Bioresearch and Partners, Monthey, Switzerland

P162 ADAMS IN THE FORMATION OF FOREIGN BODY GIANT CELLS AND OSTEOCLASTS
G. Ma*, M. Ainola*, M. Liljestrom*, M. Hukkanen*, J. Salo*, Y. T. Konttinen*
1Department of Medicine, Institute of Biomeidicine, 2Anatomy, Biomedicum, 3Orthopedics and Traumatology, Helsinki University Central Hospital, 4Department of Medicine, Biomedicum, Helsinki, Finland

P163 STATINS INCREASE OSTEOPROTEGERIN PRODUCTION AND APOPTOSIS IN OSTEOBLASTIC CELLS
H. Smith*, J. H. H. Williams*, M. J. Marshall*
1Charles Salt Centre, RJAH Orthopaedic Hospital, Oswestry, 2Chester Centre for Stress Research, Chester University, Chester, United Kingdom
P164 THE UNIQUE CIRCUMNUCLEAR ORGANIZATION OF MICROTUBULES, THE GOLGI COMPLEX, ER-EXIT SITES AND THE RECYCLING MACHINERY IN OSTEOCLASTS
M. T. K. Mulari, H. K. Väänänen
1Dept. of Anatomy, Inst. of Biomedicine, Univ. of Turku, Turku, Finland

P165 THE EFFECT OF DISSOCIATIVE GLUCOCORTICOID RECEPTOR LIGAND ON OSTEOCLAST DIFFERENTIATION AND BONE RESORPTION IN VITRO
K. A. Nelo, J. M. Ilvesaro, H. A. Järveläinen, J. K. K. Tuukkanen
1Anatomy and Cell Biology, University of Oulu, Oulu, Finland, 2Hematology and Oncology, University of Alabama at Birmingham, Birmingham, United States, 3AstraZeneca R and D, Lund, Sweden

P166 RELEASE OF CALCIUM FROM THE INORGANIC PHASE OF BONE HAMPERS OSTEOCLAST SURVIVAL, AND AFFECTS THE COUPLING OF BONE FORMATION TO BONE RESORPTION
R. H. Nielsen, K. Henriksen, M. G. Sorensen, J. Gram, S. Schaller, J. Bollerslev, M. A. Karsdal
1Research and Development, Pharmos Bioscience, Herlev, 2Department of Medicine, Ribe County Hospital, Esbjerg, Denmark, 3Section of Endocrinology, National University Hospital, Oslo, Norway

P167 ISOLATION AND COMPARISON OF THE VACUOLAR PROTON PUMP ISOFORM A3-CONTAINING COMPARTMENTS FROM HUMAN OSTEOCLASTS AND MACROPHAGES
J. K. E. Nyman, K. Väänänen
1Department of Anatomy, Institute of Biomedicine, Turku, Finland

P168 EFFECTS OF CALCITONIN ON THE EXPERIMENTAL OSTEOARTHRITIS DEVELOPMENT IN DOGS. MICROSCOPIC ANALYSIS OF THE TIBIAL SUBCHONDRAL BONE
A. Berners, D. H. Manicourt, J. Devogelaer, C. Nyssen-Behets
1Experimental Morphology Unit, 2Rheumatology department, Université catholique de Louvain, Brussels, Belgium

P169 THE LENGTH OF PERIOD OF ACTIVE DISEASE AS PREDICTOR OF DECREASING BONE MINERAL DENSITY IN PATIENTS WITH INFLAMMATORY BOWEL DISEASES
Z. Crncevic, Orlic, T. Turk, B. Sincic-Mijandrusic, D. Jurisic-Erzen, E. Fisic, D. Stimac
1Department of internal medicine, 2Laboratory diagnostic department, Clinical hospital center Rijeka, Croatia, Rijeka, Croatia
P170 SERUM LEVELS OF RANKL DECREASE WITH AGE IN HEALTHY WOMEN AND MEN

P. Pietschmann*, J. Wendlova, S. Kudlacek, A. Gleiss, W. Woloszczuk, K. Kerschan-Schindl

1Department of Pathophysiology, Medical University of Vienna, Vienna, Austria, 2Division of Osteological Surgery, Derer’s University Hospital and Polyclinic, Bratislava, Slovakia, 3Department of Internal Medicine, Krankenhaus der Barmherzigen Brüder, 4Core Unit for Medical Statistics and Informatics, Medical University of Vienna, 5Institute of Experimental Endocrinology, Ludwig Boltzmann Society, 6Department of Physical Medicine and Rehabilitation, Medical University of Vienna, Vienna, Austria

P171 CD44-hyaluronic acid engagement in osteoclast-like cultures

E. Pivetta*, P. Spessotto, M. Scapolan, C. Danussi, B. Wassermann, A. Colombatti

1Experimental Oncology 2 Centro di Riferimento Oncologico, Aviano, Italy

P172 HIGH BONE REMODELLING ACCORDING TO VALUES OF C-TELOPEPTIDE IN PATIENTS WITH POSTMENOPAUSAL OSTEOPOROSIS

J. Ramos*, D. López, G. Velásquez, G. S. Riera-Espinoza

1UNILIME UC, Hospital Universitario Angel Larralde. Universidad de Carabobo, Valencia, Venezuela

P173 OSTEOPROTEGERIN AND IBANDRONATE REDUCE TUMOUR BURDEN VIA EFFECTS ON APOPTOSIS AND PROLIFERATION IN A MURINE MODEL OF BREAST CANCER BONE METASTASIS


1Bone Research Programme, Anzac Research Institute, Sydney, Australia

P174 EVIDENCE FOR THE INVOLVEMENT OF ERA AND ERB IN PERIOSTEAL APPosition AND UNCOUPLING OF ENDOCORTICAL RESORPTION AND PERIOSTEAL APPosition IN THE ABSENCE OF ERB


1Department of Internal Medicine, 2Department of Orthopaedics, Erasmus Medical Centre, Rotterdam, 3Pharmacology, N.V. Organon, Oss, Netherlands

P175 APOPTOSIS AND WNT SIGNALING DURING UNLOADED CONDITIONS IN HUMAN BONE CELLS

A. Sundaresan*, A. Dharmarajan, N. R. Pellis

1Biology, Texas Southern University, Houston, United States, 2Biology, University of Southwestern Australia, Perth, Australia, 3Space Life Sciences, NASA, Houston, United States

P176 A NOVEL METHOD FOR EFFICIENTLY TRANSFECTING HUMAN OSTEOCLASTS

A. Taylor*, M. J. Rogers, D. Tosh, F. P. Coxon

1Bone Research Group, University of Aberdeen, Aberdeen, United Kingdom
P177  **ACTIVE CROSSTALK BETWEEN OSTEOBLASTS AND OSTEOCLASTS IS DEPENDING ON DIFFERENTIATION STATUS**
M. Van Driel*1, M. Koedam1, C. J. Buurman1, H. Chiba2, H. A. P. Pols1, J. P. T. M. Van Leeuwen1

1Internal Medicine, Erasmus MC, Rotterdam, Netherlands, 2Pathology, University of Sapporo, Sapporo, Japan

P178  **FIBROBLAST-LIKE CELLS IN INTERFACES OF ASEPTICALLY LOOSENED ENDOPROSTHESES EXPRESS MMP-13**
S. Wagner*1, H. Gollwitzer2, D. Wernicke3, K. A. Siebenrock4, W. Hofstetter5

1Department of Orthopaedic Surgery, Klinikum Grosshadern, Ludwig-Maximilians-Universität München, München, 2Department for Orthopaedic surgery, TU München, Munich, 3Max-Delbrück-Centrum, Max-Delbrück-Centrum, Berlin, Germany, 4Clinics of Orthopaedic Surgery, 5Group for Bone Biology, Department Clinical Research, University of Berne, Berne, Switzerland

P179  **GLYCITEIN INHIBITS OSTEOCLAST GENERATION IN MURINE BONE MARROW CULTURES**
M. Winzer*1, M. Rauner2, G. Hofbauer2, K. Wahl1, P. Pietschmann1

1Center of Physiology and Pathophysiology, Medical University of Vienna, 2Ludwig Boltzmann Institute of Aging Research, Ludwig Boltzmann Society, Vienna, Austria

P180  **DIFFERENTIAL ADSORPTION CHARACTERISTICS OF RISEDRONATE DERIVATIVES ON CERAMIC HYDROXYAPATITE REVEALED BY COLUMN CHROMATOGRAPHY**
Z. Xia*1, M. A. Lawson1, J. T. Triffitt1, F. H. Ebetino2, C. E. McKenna2, M. Marma3, B. Kashimirov2, R. G. G. Russell1

1Nuffield Department of Orthopaedic Surgery, University of Oxford, Oxford, United Kingdom, 2Procter and Gamble, Pharmaceuticals, Cincinnati OH, 3Department of Chemistry, University of Southern California, Los Angeles, CA, United States

P181  **EPIDERMAL GROWTH FACTOR RECEPTOR SIGNALING IS INVOLVED IN OSTEOCLAST DIFFERENTIATION AND SURVIVAL**
T. Yi*1, H. Kim1, K. Woo1, G. Kim1, J. Baek1

1Cell and Developmental Biology, Seoul National University, School of Dentistry, Seoul, South Korea

P182  **OVERSUPPRESSION OF BONE TURNOVER BLUNTS RESPONSE OF BONE TO ENDOGENOUS PARATHYROID HORMONE**
V. Zikan*1, J. J. Stepan1

1Department of Internal Medicine 1, Faculty of Medicine 1, Prague, Czech Republic
MEET THE PROFESSOR SESSIONS

Numbers limited. Entry is by ticket only, to be collected on a first-come first-served basis from the registration desk on the day of the session. Boxed lunches may be collected for consumption during the sessions.

Club Room A  BONE DISEASE IN CHILDREN
Nick Bishop (Sheffield, UK)

Club Room B  GENETICS OF OSTEOPOROSIS
Serge Ferrari (Geneva, Switzerland)

Club Room C  BIOCHEMICAL MARKERS OF BONE AND JOINT DISEASE
Patrick Garnero (Lyon, France)

Club Room D  FRACTURE HEALING
Thomas Einhorn (Boston, USA)

Club Room H  THYROID DISEASE AND BONE
Bente Langdahl (Aarhus, Denmark)

SYMPOSIUM 2
Cancer and Bone

Chairs: Vladimir Palicka (Hradec Kralove, Czech Republic)
Anna Teti (L'Aquila, Italy)

14:00  I010  BREAST AND BONE: RELATIONSHIP BETWEEN BREAST CANCER AND ITS TREATMENT AND OSTEOPOROSIS
S. Cummings*”
1Prevention Sciences Group, University of California, San Francisco, United States

14:30  I011  GENE SIGNATURES AND BONE METASTASES
T. A. Guise*”
1Dept Int Med, Div Endocrinology and Metabolism, University of Virginia, Charlottesville, United States
15:00 - 16:00  CONGRESS HALL - SECOND FLOOR

ORAL COMMUNICATIONS 2
Stem Cells and Cancer

Chairs:  Vladimir Palicka (Hradec Kralove, Czech Republic)
        Anna Teti (L’Aquila, Italy)

15:00  OC006  DIRECT IDENTIFICATION, PROSPECTIVE ISOLATION, AND
            PHENOTYPE OF IN VIVO SELF-RENEWING, MULTIPOTENT
            SKELETAL STEM CELLS
            B. Sacchetti*, A. Funari†, S. Di cesare‡, S. Michienzi†,
            S. Piersanti†, I. Saggio‡, M. Riminucci‡, P. Bianco†
            †Department of experimental medicine and pathology, University of
            Rome La Sapienza, Rome, ‡Department of Experimental Medicine,
            University of L’Aquila, L’Aquila, †, ‡S.Raffaele Scientific Park of Rome,
            †, ‡Department of Genetics and Molecular Biology, University of Rome La
            Sapienza, Rome, Italy

15:12  OC007  FUNCTIONS OF C-FOS PHOSPHORYLATION IN BONE
            DEVELOPMENT AND TUMORIGENESIS
            L. Bakiri*, M. O. Reschke‡, M. Idarraga†, K. Polzer‡,
            V. Komnenovic†, G. Schett‡, E. F. Wagner‡
            †IMP, Research Institute of Molecular Pathology, ‡Internal Medicine III,
            Division of Rheumatology, University of Vienna, Vienna, Austria

15:24  OC008  RISK FACTORS FOR FRACTURE: 5-YEAR RESULTS OF THE
            ‘ARIMIDEX’ (ANASTROZOLE), TAMOXIFEN, ALONE OR IN
            COMBINATION (ATAC) TRIAL
            R. Eastell**
            **Academic Unit of Bone Metabolism, University of Sheffield, Sheffield,
            United Kingdom

15:36  OC009  DICKKOPF-1 (Dkk-1) IS INVOLVED IN THE DEVELOPMENT
            OF BREAST CANCER OSTEOLYTIC LESIONS
            N. Voorzanger-Rousselot†, C. Lafaye‡, R. Bachelier‡,
            P. Clézardin‡, P. Garnero**
            **Research, SYNARC, ‡Research, INSERM U664, LYON, France

15:48  OC010  CLONOGENIC CELLS FROM DIFFERENT TISSUES ARE
            PERICYTES
            S. Michienzi*, B. Sacchetti†, A. Bartoli‡, A. Cicconetti†,
            S. Di cesare§, E. Tagliafico§, G. Cossu‡, S. Ferrari‡,
            M. Riminucci‡, P. Bianco†
            †Department of Experimental Medicine and Pathology, ‡Department of
            Oro-maxillofacial surgery, †Department of Oro-Maxillofacial surgery,
            University of Rome La Sapienza, ‡, †Scientific Park S.Raffaele of Rome,
            Rome, ‡, †University of Modena, Modena, †Department of Biology,
            University of Milan, ‡, †University of Modena, Milano, †, ‡Experimental
            medicine, University of L’Aquila, L’Aquila, †, ‡Experimental Medicine and
            Pathology, University of Rome La Sapienza, Rome, Italy
THURSDAY 11 MAY 2006

16:00 - 16:30
COFFEE BREAK

16:30 - 17:30  CONGRESS HALL - SECOND FLOOR

ORAL COMMUNICATIONS 3

Anabolic Agents

Chairs: Serge Ferrari (Geneva, Switzerland)
       Roman Lorenc (Warsaw, Poland)

16:30  OC011  IN VIVO OVER-EXPRESSION OF THE TRANSCRIPTIONAL FACTOR RUNX2 ABOLISHES THE ANABOLIC EFFECT OF PARATHYROID HORMONE

D. Merciris*, C. Marty*, M. de Vernejoul*, V. Geoffroy*

1INSERM U606, Hôpital Lariboisière, 2INSERM U606, H, Paris, France

16:42  OC012  TYPE OF PRIOR ANTiresorPTive THERAPY, BUT NOT ITS DURATION OR WASHOUT PERIOD, DETERMINES THE BONE MINERAL DENSITY RESPONSE TO 12 MONTHS OF TERIPARATIDE


1Division of Geriatric Medicine, Universitair Ziekenhuizen, Leuven, Belgium, 2Department of Medical Research, Lilly Research Center, Windlesham, United Kingdom, 3Department of Orthopedics, University of Athens, Athens, Greece, 4Abteilung Endokrinologie, Med. Universitätsklinik, Graz, Austria, 5Reumatologia, Instituto Portugues de Reumatologia, Lisbon, Portugal, 6Medical Research, Lilly Research Center, Windlesham, United Kingdom, 7Medical Research, Lilly Germany, Bad Homburg, Germany, 8The WHO Collaborating Centre for Metabolic Bone Diseases, University of Sheffield, Sheffield, United Kingdom

16:54  OC013  IN VIVO ANALYSIS OF VERTEBRAL TRABECULAR BONE STRUCTURE BY HIGH-RESOLUTION COMPUTED TOMOGRAPHY DOCUMENTS EFFECT OF TERIPARATIDE OVER 12 MONTHS INDEPENDENT OF BMD


1Med. Physics, UKSH, Kiel, Germany, 2Hospital Santa Creu i Sant Pau, Barcelona, Spain, 3Eli Lilly and Co, Europe, Homburg, 4Universitätsklinik, Würzburg, 5Fachkrankenhaus, Rheumatologie, Vogelsang, Germany, 6Eli Lilly and Co, University of Leuven, Leuven, Belgium, 7Centre Hospitalier Universitaire, Angers, France
17:06 OC014 AC-100, A FRAGMENT OF MEPE HAS A NOVEL MECHANISM OF ACTION, ENHANCING LOCAL PRODUCTION OF PGE2 AND THE ACTIVITY OF ENDOGENOUS BONE ANABOLIC AGENTS, SUCH AS BMP2


*Research and Development, Acologix Inc., Hayward, CA, United States, †Department of Orthopaedic Surgery, Osaka University Graduate School of Medicine, Osaka, Japan

17:18 OC015 THE EXTRACELLULAR MATRIX SIGNALING MOLECULE CYSTEINE RICH PROTEIN 61 (CCN1) ENHANCES BMP-2 RESPONSIVE GENE REGULATION

N. Schütze*, S. Jatzke, R. Wagemanns, V. Monz, W. Sebald, F. Jakob

* Molecular Orthopaedics, Orthopaedic Center for Musculoskeletal Research, Orthopaedic Institute, University of Würzburg, ‡Physiological Chemistry, Biocenter, University of Würzburg, Würzburg, Germany

17:30 - 18:00 BREAK

18:00 - 19:30 CONGRESS HALL - SECOND FLOOR

SATELLITE SYMPOSIUM 4
Improving Osteoporosis Therapy: An integrated Approach
SUPPORTED BY MSD

Chair: Socrates Papapoulos (Leiden, Netherlands)

STEP 1: EFFICACY - WHAT IS THE EVIDENCE?
Piet Geusens (Diepenbeek, Belgium)

VITAMIN D: THE ESSENTIAL COMPONENT
Michael Holick (Boston, USA)

AN INTEGRATED APPROACH TO ACHIEVING BONE STRENGTH
Socrates Papapoulos (Leiden, Netherlands)
FRIDAY 12 MAY 2006

08.00 - POSTERS
EXHIBITION AND POSTER HALL

Symposium 3:
The immune system and bone
CONGRESS HALL

09.00 - Orals 4:
Osteoclasts
CONGRESS HALL

09.30 - COFFEE

10.00 - Workshop 3:
Fracture healing
CONGRESS HALL

10.30 - Workshop 4:
Systems biology
PANORAMA HALL

11.00 - LUNCH & POSTERS
EXHIBITION AND POSTER HALL

11.30 - ECTS AGM
CONGRESS HALL

Meet the Professor
Sessions
See Programme

12.00

12.30

13.00 - Symposium 4:
Mineralisation
CONGRESS HALL

13.30 - Orals 5:
Osteoblasts and bone formation
CONGRESS HALL

14.00 - COFFEE

14.30 - Short Orals 1
CONGRESS HALL

15.00 - Break

15.30

16.00 - Satellite Symposium 5
Supported by Amgen
CONGRESS HALL

16.30

17.00

17.30

18.00 - Cultural Event/
ECTS Football Tournament

18.30

19.00

19.30

20.00

20.30

21.00
FRIDAY 12 MAY 2006

08:00 - 08:30
POSTER VIEWING

08:30 - 09:30 CONGRESS HALL - SECOND FLOOR

SYMPOSIUM 3
The Immune System and Bone

Chairs: Mike Rogers (Aberdeen, UK)
Jan Stepan (Prague, Czech Republic)

08:30 I012 IMPACT OF CYTOKINE BLOCKADE ON JOINT AND BONE DESTRUCTION
P. Emery*  
*Academic Unit of Musculoskeletal Disease, University of Leeds, Leeds, United Kingdom

09:00 I013 MECHANISMS OF OSTEOCLAST ACTIVATION BY RANKL AND CO-STIMULATORY LIGANDS: NOVEL ROLE OF NFAT IN BONE HOMEOSTASIS
H. Takayanagi*  
*Cell Signaling, Graduate School, Tokyo Medical and Dental University, Bunkyo-ku, Japan

09:30 - 10:30 CONGRESS HALL - SECOND FLOOR

ORAL COMMUNICATIONS 4
Osteoclasts

Chairs: Mike Rogers (Aberdeen, UK)
Jan Stepan (Prague, Czech Republic)

09:30 OC016 CANNABINOID RECEPTOR 2 ANTAGONISTS ARE POTENT INHIBITORS OF BONE RESORPTION IN VITRO AND OVARIECTOMY-INDUCED BONE LOSS IN VIVO
A. I. Idris*, I. R. Greig, S. H. Ralston, R. J. Van ‘t Hof  
*Rheumatic Diseases Unit, University of Edinburgh, Edinburgh, United Kingdom

09:42 OC017 REGULATION OF BONE MASS BY CCAAT/ENHANCER BINDING PROTEIN (C/EBP) BETA
J. J. Smink*, V. Begay, A. Leutz  
*Tumorigenesis and Differentiation, Max-Delbrueck-Center for Molecular Medicine, Berlin, Germany

09:54 OC018 OVEREXPRESSION OF THE INHIBITOR OF METALLOPROTEINASES TIMP-1 RESCUES THE STRONG BONE LOSS INDUCED BY RUNX2 OVEREXPRESSION IN MICE
V. Geoffroy*, C. Prouillet, C. Marty, M. de Vernejoul  
*INSERM U606, Hôpital Lariboisière, Paris, France
10:06 OC019 THE PLEKHM1 PROTEIN IS INVOLVED IN OSTEOPETROSIS IN RAT AND HUMAN AND APPEARS TO PLAY A ROLE IN VESICULAR TRANSPORT IN OSTEOCLASTS


¹Department of Medical Genetics, University of Antwerp, Wilrijk, Belgium, ²Department of Cell Biology, University of Massachusetts Medical School, Worcester, United States, ³Bone Research Group, Institute of Medical Sciences, University of Aberdeen, Aberdeen, United Kingdom, ⁴Istituto di Tecnologie Biomediche Avanzate, Consiglio Nazionale delle Ricerche, Segrate, Italy, ⁵Pediatric Orthopaedics, Catholic University of Leuven, Leuven, ⁶Laboratory of Cell Biology and Histology, University of Antwerp, Wilrijk, Belgium, ⁷Department of Experimental Medicine, University of L’Aquila, L’Aquila, Italy, ⁸Department of Medical Genetics, University and University Hospital of Antwerp, Wilrijk, Belgium

10:18 OC020 UROKINASE RECEPTOR IS INVOLVED IN BONE REMODELING BY INFLUENCING OSTEOCLASTS RESORPTION

F. Furlan*, N. Jorgensen², J. Jemsen², E. Mrak³, A. Rubinacci³, P. Verde³, F. Blasi³

¹Molecular Genetics, DIBIT, H. San Raffaele, Milan, Italy, ²Osteoporosis Unit, Dpt of Endocrinology, Copenhagen, Denmark, ³Bone metabolic Unit, H. San Raffaele, Milan, ⁴Genetics and Biophysics, CNR, Naples, Italy

10:30 - 11:00

COFFEE BREAK

11:00 - 12:30 CONGRESS HALL - SECOND FLOOR

WORKSHOP 3

Fracture Healing

Chairs: Edward Czerwinski (Krakow, Poland)  
Franz Jakob (Würzburg, Germany)

11:00 I014 LOCAL THERAPIES FOR THE ENHANCEMENT OF FRACTURE HEALING

T. Einhorn*

¹Boston University Medical Center, Boston University, Boston, MA, United States

11:30 I015 THERAPEUTIC MANIPULATION OF THE ANABOLIC AND CATABOLIC RESPONSES IN FRACTURE REPAIR

D. G. Little*

¹Orthopaedic Research and Biotechnology, The Childrens Hospital at Westmead, Westmead, Australia

12:00 I016 BONE MORPHOGENETIC PROTEINS

S. Vukicevic*

¹Department of Anatomy, School of Medicine, Zagreb, Croatia
WORKSHOP 4
Systems Biology

Chairs: Hans van Leeuwen (Rotterdam, Netherlands)
Hans Westerhoff (Amsterdam, Netherlands)

11:00 I017 SYSTEMS BIOLOGY: ROBUSTNESS THROUGH ADAPTATION AND REGENERATION
H. Westerhoff
1Department of Molecular and Cellular Physiology, Free University Faculty of Earth and Life Sciences, Amsterdam, Netherlands

11:30 I018 UNDERSTANDING DIABETES PATHOGENESIS: THE NEED FOR SYSTEMS BIOLOGY
P. De Meyts
1Receptor Systems Biology Laboratory, Hagedorn Research Institute, Gentofte, Denmark

12:00 I019 DYNAMIC PATHWAY MODELING OF THE JAK-STAT AND SMAD SIGNALING CASCADES
U. Klingmüller
1Boveri Group Systems Biology of Signal Transduction, German Cancer Research Center, Heidelberg, Germany

12:30 - 13:00 CONGRESS HALL - SECOND FLOOR

ECTS AGM

12:30 - 14:00 EXHIBITION AND POSTER HALL - SECOND FLOOR

LUNCH & POSTERS

The following posters will be manned 13:00-14:00

P183 THE CROSSTALK BETWEEN BONE AND CANCER CELLS: ALTERATIONS OF OSTEOBLASTS IN GENE EXPRESSION AND BEHAVIOUR ARE METASTASIS-TYPE SPECIFIC
K. Ackermann, W. Pyerin
1Biochemical Cell Physiology A15, Deutsches Krebsforschungszentrum, Heidelberg, Germany

P184 CASE REPORT OF A PATIENT WITH A DIAGNOSIS OF ANKYLOSING SPONDYLITIS AND CHONDROSARCOMA OF SACROILIAC JOINT
M. Graberski Matasovic, A. Aljinovic, M. Paar-Puhovski, M. Jaksic
1Department of physical medicine, rehabilitation and rheumatology, General hospital Sveti Duh, Zagreb, Croatia
P185 CALCITROPIC HORMONES IN WOMEN WITH POLYCYSTIC OVARY SYNDROME
M. S. Ardawi*, A. A. Rouzi†
†Clinical Biochemistry, ‡Obstetrics and Gynecology, Faculty of Medicine and King Abdulaziz University Hospital, Jeddah, Saudi Arabia

P186 EFFECT OF CLODRONATE ON BONE MASS MINERALIZATION IN PROSTATE CARCINOMA PATIENTS
T. Banek*, L. Banek, G. Kurnik
†Department of Nuclear Medicine, Clinical Hospital Dubrava, ‡Institute of Histology and Embriology, School of Medicine, University of Zagreb, Zagreb, Croatia

P187 TRANSCRIPTOME ANALYSIS REVEALS AN OSTEOMIMETIC PHENOTYPE FOR HUMAN BONE METASTATIC BREAST CANCER CELLS
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P188 BONE SIALOPROTEIN OVEREXPRESSION IN RESPONSE TO SERUM DEPRIVATION AND APOPTOTIC STRESS PROMOTES CELL SURVIVAL IN CANCER CELLS
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P190 INTERACTION BETWEEN BONE MICROENVIRONMENT AND CANCER CELLS IN ANIMAL METASTASIS MODELS
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P191 BONE MORPGENETIC PROTEINS AND THEIR RECEPTORS IN PROSTATE CANCER PATHOGENESIS
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P193 THE DEVELOPMENT OF PAGET’S DISEASE IN PEOPLE WITH INHERITED SQSTM1 MUTATIONS
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P194 THE RISK OF MORPHOMETRIC VERTEBRAL FRACTURES IN POSTMENOPAUSAL PATIENTS WITH PRIMARY HYPERPARATHYROIDISM
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P195 TUMORAL CALCINOSIS AND CALCIPHYLAXIS PRESENTING IN A HEMODIALYSIS PATIENT
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P196 INVESTIGATION OF UBIQUITIN-ASSOCIATED DOMAIN MUTATIONS OF SQSTM1 IN SPORADIC HUNGARIAN PATIENTS WITH PAGET’S DISEASE OF BONE
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P197 MOLECULAR CHARACTERIZATION OF THE GENETIC DEFECT IN MUTANT PIGS WITH A NON-FUNCTIONING 25-HYDROXYVITAMIN D3 1ALPHA-HYDROXYLASE (CYP27B1)
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P198 THE EFFECT OF ANTIHISTAMINE AND CORTICOSTEROID TREATMENT ON BONE FRACTURES IN POSTMENOPAUSAL POLLEN ALLERGIC WOMEN
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P199 SERUM CALCIUM CONCENTRATION IN THE ELDERLY
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P200 THE STX16-TARGETED MOUSE MODEL OF PSEUDOHYPOPARATHYROIDISM TYPE IB PROVIDES EVIDENCE FOR A NEW INTRAGENIC TRANSCRIPT
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P201 THE CHONDROSARCOMA CELL LINE C422 UNDERGOES APOPTOSIS UNDER THE EFFECT OF SIMVASTATIN
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P202 THE STATINS INDUCE CHANGES IN THE EXPRESSION OF TGF-BETA1, FIBRONECTIN-1 AND COLLAGEN IV IN THE CHONDROSARCOMA CELL LINE C422 WITH A SIMULTANEOUS CELL CYCLE ARREST
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P204 FUNCTIONAL AND ULTRASTRUCTURAL STUDIES OF OSTEOCLASTS FROM OSTEOPETROTIC PATIENTS
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P205 RECEPTOR ACTIVATOR OF NF-KB-LIGAND (RANKL) PROMOTES CELL MIGRATION OF RANK POSITIVE DU145 HUMAN PROSTATE CANCER CELLS
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P206 HUMAN OSTEOSARCOMAS EXPRESS FUNCTIONAL RECEPTOR ACTIVATOR OF NUCLEAR FACTOR-KB (RANK)
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P207 WNT SIGNALLING IN OSTEOARTHRITIC AND OSTEOPOROTIC BONE
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P208 SONOLOGICAL EVALUATION AND GRADING OF TENDOACHILLIS ENTHESOPATHY IN ALKAPTONURIA
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P210 OXANDROLONE STIMULATES ANDROGEN RECEPTOR TRANSLOCATION AND INCREASES BIOMARKERS OF OSTEOBLAST ACTIVITY
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P211 FAS/FAS LIGAND SYSTEM IS IMPORTANT BOTH FOR APOPTOSIS AND DIFFERENTIATION OF MURINE OSTEOBLASTS AND OSTEOCLASTS
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P212 VARIATIONS OF BONE HISTOMORPHOMETRY IN ADVANCED OSTEOARTHRITIS OF THE FEMORAL HEAD
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P213 OSTEOPROTEGERIN AND BONE MARKERS IN METABOLIC BONE DISORDERS
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P214 IMMUNOCYTOLOCALIZATION AND URINARY EXCRETION OF ALPHA CTX IN METASTATIC BONE DISEASE SECONDARY TO BREAST CANCER
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P215 HORMONAL REGULATION OF BONE METASTASIS IN BREAST CANCER
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P216 EXPRESSATION AND REGULATION OF OSTEOPROTEGERIN IN ADIPOSE TISSUE IN VITRO: OSTEOPROTEGERIN AS A NOVEL ADIPOCYTOKINE
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P217 EVIDENCE FOR AN IMPORTANT SUSCEPTIBILITY GENE FOR FAMILIAL PAGET’S DISEASE OF BONE ON CHROMOSOME 10P13 (PDB6) IN FAMILIES WITHOUT SQSTM1 MUTATIONS
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P219 PROSTATE CANCER AND SKELETAL METASTASIS: IMPACT OF THE BONE MICROENVIRONMENT AND EXTRACELLULAR CALCIUM
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P220 MUTATION ANALYSES OF 30 FAMILIES WITH HYPOPHOSPHATASIA
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P221 ADULT PATIENTS AFFECTED BY OSTEOGENESIS IMPERFECTA HAVE IMPAIRMENT OF DIASTOLIC FUNCTION
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P222 SUCCESSFUL TREATMENT OF THE POST-TRAUMATIC OSTEOLYSIS OF DISTAL CLAVICLE WITH ALENDRONATE - A CASE REPORT
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P223 BONE TURNOVER MARKERS IN NEWLY DIAGNOSED BREAST CANCER PATIENTS
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P224 ANTI-METASTATIC AND ANTI-ANGIOGENIC ACTIVITY OF 1,25-DIHYDROXYVITAMIN D3 IN BONE-METASTATIC LUNG CARCINOMA CELLS
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P225 ELEVATED SERUM FGF23 PROTEIN ASSOCIATED WITH TUMOR-INDUCED OSTEOMALACIA: A CASE REPORT
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P226 BONE METABOLISM IN DIALYSED PATIENTS - ARE THERE ANY DIFFERENCES BETWEEN HEMODIALYSIS AND PERITONEAL DIALYSIS?
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P227 ZOLEDRONIC ACID INDUCES OSTEOSARCOMA CELL DEATH BY AIF TRANSLOCATION AND CELL CYCLE ARREST IN S AND G2/M PHASES
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P228 PERCUTANEOUS BALLOON KYPHOPLASTY IN PATIENTS WITH PATHOLOGICAL VERTEBRAL BODY FRACTURE CAUSED BY MULTIPLE MYELOMA
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P229 NON-VIRAL OSTEOPROTEGERIN GENE TRANSFER INHIBITS THE TUMOR PROGRESSION AND PROLONGS SURVIVAL IN A MOUSE EXPERIMENTAL MODEL OF OSTEOSARCOMA
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P230 ANTI-TUMOR EFFECTS INDUCED BY DENDRITIC CELL-BASED IMMUNOTHERAPY AGAINST ESTABLISHED OSTEOSARCOMA IN RATS
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P231 BONE METASTASIS IS INDEPENDENT OF OSTEOLYSIS IN A NUDE MOUSE MODEL OF CANINE PROSTATE CANCER WITH MIXED BONE METASTASES
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P232 CARBON DIOXIDE RICH WATER BATHING INCREASES LOCAL VEGF SECRETION IN ISCHEMIC LOWER LIMBS OF DM, ASO PATIENTS
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P233 ACTIVIN A CIRCULATING LEVELS IN PATIENTS WITH PRIMARY OSTEOPOROSIS OR BONE METASTASES FROM BREAST CANCER
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P234 EXPRESSION AND REGULATION OF TOLL-LIKE RECEPTOR 2 BY IL-1B IN HUMAN ARTICULAR CHONDROCYTES
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P235 TISSUE-SPECIFIC PARTIAL VITAMIN D AGONISM/ANTAGONISM IN CALCIUM AND BONE HOMEOSTASIS BY THE NOVEL VITAMIN D ANALOG ZK191784
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P236 ZOLEDRONIC ACID CAN NORMALIZE BONE MASS DENSITY IN THE REGION OF OSTEOBLASTIC AND OSTEOLITIC METASTASIS
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P237 IDENTIFICATION AND FUNCTIONAL CHARACTERIZATION OF A NOVEL MUTATION IN THE CALCIUM-SENSING RECEPTOR GENE IN FAMILIAL HYPOCALCIURIC HYPERCALCEMIA
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P238 ETHNIC DIFFERENCES IN THE EFFECTS OF SUBCUTANEOUS AND VISCERAL FAT ON BONE MINERAL CONTENT IN PRE-PUBERTAL CHILDREN

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P239 INVERSE ASSOCIATION BETWEEN SYSTOLIC BLOOD PRESSURE AND BONE MINERAL CONTENT AND DENSITY IN OVERWEIGHT LATINO CHILDREN WITH A FAMILY HISTORY OF TYPE 2 DIABETES

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P240 OSTEOPOROSIS, BONE TURNOVER MARKERS AND BONE MINERAL DENSITY IN PATIENTS WITH THALASSEMIA MAJOR

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P241 SERUM OSTEOPROTEGERIN AND BONE MINERAL DENSITY IN POSTMENOPAUSAL WOMEN WITH OR WITHOUT OSTEOPOROSIS

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P242 OSTEOPROTEGERIN, RANKL, BIOCHEMICAL MARKERS OF BONE TURNOVER AND BONE MINERAL DENSITY IN PRE- AND POSTMENOPAUSAL SAUDI WOMEN

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P243 BONE MINERAL DENSITY AND SERUM LIPIDS IN SAUDI POSTMENOPAUSAL WOMEN

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P244 EFFECT OF ISOTRETINOIN THERAPY FOR ACNE VULGARIS ON BONE MINERAL METABOLISM

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P245 POSTMENOPAUSAL OSTEOPOROTIC WOMEN RISK FACTORS AND TREATMENT COMPLIANCE : OSTEPI STUDY
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P246 DEGREE OF MINERALIZATION AND MICROHARDNESS OF BONE TISSUE IN CONTROL AND OSTEOPOROTIC MEN
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P247 ROLE OF 11-ß-HYDROXYSTEROID DEHYDROGENASE TYPE 1 IN THE OSTEOGENIC AND ADIPOGENIC DIFFERENTIATION OF PRIMARY HUMAN OSTEOBLASTS (PHOB) AND HUMAN OSTEOSARCOMA CELLS (HOS58)
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P248 ZINC SUPPLEMENTATION CAN PROTECT FROM CADMIUM-INDUCED WEAKENING IN THE FEMORAL NECK FRACTURE STRENGTH IN RATS
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P249 THE EFFECT OF ZINC SUPPLEMENTATION ON CADMIUM ACCUMULATION AND ZINC CONTENT IN THE FEMUR OF RATS EXPOSED TO CADMIUM
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P250 INFLUENCE OF CYP 17 AND ESTROGEN RECEPTOR GENE POLYMORPHISMS ON BONE MINERAL DENSITY AND BONE TURNOVER IN ADULT THALASSAEMIC PATIENTS
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P251 REGULATION OF CRYSTALLINITY IN HIP FRACTURE: AN INITIAL STUDY WITH FTIR
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P252 THE INFLUENCE OF LIFE-STYLE AND SECONDARY CAUSES OF OSTEOPOROSIS IN DOBRUGEA REGION IN ROMANIA
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P253 MALE IDIOPATHIC OSTEOPOROSIS. ILLIAC BONE BIOPSY STUDY BY MICRO-TC
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P254 PARATHYROID HORMONE (1-84) IS EFFECTIVE IN PATIENTS WITH A WIDE RANGE OF CLINICAL RISK FACTORS
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P255 VALUES OF 25-HYDROXYVITAMIN D (25-OH D3) IN VENEZUELAN MEN WITH LOW BONE MINERAL DENSITY
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P256 GONADAL HORMONES LEVEL, SEXUAL HORMONE BINDING GLOBULIN LEVEL AND GONADOTROPIN LEVEL IN VENEZUELAN MEN WITH LOW BONE MINERAL DENSITY
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P257 THE RELATIONSHIP OF SODIUM AND CALCIUM INTAKE WITH BONE MASS IN POSTMENOPAUSAL WOMEN
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P258 DOES URINARY INCONTINENCE INCREASE THE RISK OF FALLS IN COMMUNITY DWELLING WOMEN?

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P259 CHANGES OF BONE MINERAL DENSITY IN POSTMENOPAUSAL WOMEN WITH SUBCLINICAL THYROID HORMONE EXCESS

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P260 THE RELATIONSHIP OF HORMONAL STATUS WITH CALCANEAL STIFFNESS INDEX IN TURKISH WOMEN

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P261 SERUM GLUTATHIONE PEROXIDASE ACTIVITY IS A MARKER FOR SEVERE OSTEOPOROSIS

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P262 QUANTITATIVE BACKSCATTERED ELECTRON IMAGING OF NORMAL AND OSTEOPOROTIC FEMORAL BONE

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P264 PTH 1-84 MORE EFFECTIVELY INDUCES JAGGED-1 MRNA THAN DOES PTH 1-34 IN UMR 106-01 OSTEOBLASTIC CELLS

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P265  BODY MASS AND SERUM ESTRADIOL CORRELATE WITH PEAK BONE MASS IN HEALTHY MEN - RESULTS FROM THE ODENSE ANDROGEN STUDY
L. Frederiksen*, T. L. Nielsen¹, K. Wraae¹, C. Hagen¹, M. Andersen¹, K. Brixen¹
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P267  DAY TO DAY VARIABILITY IN CIRCULATING OSTEOCLAST PRECURSOR POPULATIONS IN POSTMENOPAUSAL WOMEN; IMPLICATIONS FOR USE IN CLINICAL STUDIES
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P268  THE EFFECT OF THE 704 DELETION POLYMORPHISM IN THE RIZ1 GENE ON PERIMENOPAUSAL BONE MASS AND FRACTURE RISK
N. Gonzalez-Bofill*, L. B. Husted¹, C. Tofteng¹, B. Abrahamsen¹, P. Eiken¹, P. Vestergaard¹, B. L. Langdahl¹

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P270  POLYMORPHISMS IN THE IL6R GENE ARE ASSOCIATED WITH BONE MINERAL DENSITY AND BODY MASS INDEX IN POSTMENOPAUSAL SPANISH WOMEN
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P271  REGIONAL ASSESSMENT OF OSTEOPOROSIS KNOWLEDGE AND RISK FACTORS IN MEN
I. V. Haller*, A. M. Fernandez², C. M. Renier¹, J. A. Palcher¹
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P272 AGE-RELATED LOSS OF MUSCLE MASS AND BMD IN THE C57BL/6 MOUSE
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P273 INVESTIGATION OF THE ASSOCIATION OF HAPLOTYPES IN THE TRANSFORMING GROWTH FACTOR-(BETA)-INDUCIBLE EARLY GROWTH RESPONSE 2 GENE WITH VARIATION IN BONE MINERAL DENSITY
K. G. Hegarty**, F. J. Drummond³, M. Daly⁴, F. Shanahan⁵, M. G. Molloy⁶
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P274 ASSOCIATION OF THE PARATHYROID HORMONE RECEPTOR TYPE 1 INTRON 1 (T/C) POLYMORPHISM WITH ANNUALISED PERCENTAGE RATE OF CHANGE IN LUMBAR SPINE BONE MINERAL DENSITY
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P275 FACTORS ASSOCIATED WITH OCCURRENCE OF OSTEOPOROTIC FRACTURE IN POST-MENOPAUSAL WOMEN WITH OSTEOPOROSIS: OSTEPI STUDY
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P276 PREVALENCE OF OSTEOPOROSIS IN ELDERLY DANISH MEN - RESULTS FROM THE ODENSE ANDROGEN STUDY
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P277 POLYMORPHISMS IN THE VITAMIN D RECEPTOR GENE, BONE MINERAL DENSITY AND FRACTURES IN POLISH PATIENTS
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POLYMORPHISM
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P279  RETROVIRUS-MEDIATED GENE TRANSFER OF RANK-FC
AMELIORATES BONE RESORPTION IN OVARIECTOMIZED MICE
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P280  OSTEOPOROSIS CARE GAPS AMONG NURSING HOME
RESIDENTS IN CANADA
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P281  RISK FACTORS FOR OSTEOPOROSIS IN URBAN IRANIAN
POSTMENOPAUSAL WOMEN-A CENTER BASED STUDY
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School of health sciences, University of Pune, Pune, India,
4Center of Rheumatoid diseases, Shariati Hospital, Tehran, Iran (Islamic Republic of)

P282  BONE MINERAL DENSITY IN PREMENOPAUSAL FEMALES WITH
NEWLY DIAGNOSED GRAVES’ DISEASE
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P283  RISK FACTORS FOR VITAMIN D INADEQUACY AMONG WOMEN
WITH OSTEOPOROSIS: AN INTERNATIONAL STUDY
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2Garvan Institute of Medical Research, Sydney, Australia,
3Department of Medical Sciences, University Hospital, Uppsala, Sweden,
4Epidemiology, Merck Research Laboratories, Blue Bell, United States,
5Severance Hospital Department of Internal Medicine, Seoul, South Korea
P284 PVUII AND XBAI POLYMORPHISMS OF ESR1 GENE AND BODY HEIGHT IN ADULT MEN AND WOMEN IN POLISH POPULATION - THE EPOLOS STUDY
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P285 DISORDERS IN BONE METABOLISM IN MALE RATS AT MODERATE CHRONIC EXPOSURE TO CADMIUM
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P286 BONE MINERAL DENSITY IN LUMBAR SPINE AND FEMUR IN A RURAL POPULATION IN GREECE. AN EPIDEMIOLOGICAL STUDY IN THE ATHENS METROPOLITAN AREA, GREECE
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P287 VITAMIN D STATUS IN FRENCH POSTMENOPAUSAL WOMEN WITH DENSITOMETRIC OSTEOPOROSIS
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P288 VITAMIN D STATUS AND THE THRESHOLD FOR THE INCREASE OF SERUM PTH IN ADULT MEN FROM DIFFERENT EUROPEAN COUNTRIES: THE NEMO STUDY
1Endocrinology, 2EMGO, VU University Medical Center, Amsterdam, Netherlands, 3INSERM, Claude Bernard University, Lyon, France, 4Endocrinology, Ghent University, Ghent, Belgium, 5Endocrinology, University of Siena, Siena, Italy, 6Internal Medicine, University of Prague, Prague, Czech Republic, 7Geriatrics, Leuven University, Leuven, Belgium, 8Clinical Chemistry, VU University Medical Center, Amsterdam, Netherlands
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P290 COMPARISON OF MANDIBULAR AND PROXIMAL TIBIA SITES IN THE RAT: SELECTIVE SENSITIVITY TO OVARIECTOMY AND PROTEIN UNDERNUTRITION
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P291 EFFECT OF CIGARETTE SMOKING ON BONE DENSITY
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P292 RELATIONSHIP BETWEEN ANTHROPOMETRICS VARIABLES WITH BONE MINERAL CONTENT (BMC) IN AN URBAN POPULATION.
A. L. Misiunas1, M. Hevia1, N. Rella1, M. G. Loto1, C. J. Herrera1, M. V. Morani1, G. Roccatagliata1, G. Rovira2, M. I. Curria2, C. Fitzsimons1, N. Llacer1, C. Baistrocchi1, C. Almeida1, C. Perez1, A. Casares1, D. Martino1
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P293 ASSOCIATION OF ESTROGEN RECEPTOR ALPHA GENE POLYMORPHISMS WITH BONE MINERAL DENSITY: STUDY IN POSTMENOPAUSAL WOMEN OF DIFFERENT ETHNICITIES
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P294 LEPTIN AS RISK FACTOR OF OSTEOPOROSIS
M. M. J. Montoya Garcia1, E. E. Oncala Sibajas1, M. M. Giner Garcia1, M. M. A. Vazquez Gamez1, M. M. J. Miranda Garcia1, R. R. Moruno Garcia1, M. M. J. Gomez de Tejada Romero1, J. J. L. Griera Borras1, R. R. Perez Temprano1, R. R. Perez Cano1
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P295 RELATIONSHIP OF HOMOCYSTEINE, VITAMIN B12 AND FOLATE TO OSTEOPOROTIC FRACTURES
M. M. J. Montoya Garcia1, M. M. C. Merino Rumin1, M. M. J. Miranda Garcia1, M. M. A. Vazquez Gamez1, R. R. Moruno Garcia1, M. M. Giner Garcia1, M. M. J. Gomez de Tejada Romero1, R. R. Perez Temprano1, R. R. Perez Cano1
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P296  ANALYSIS OF POLYMORPHISMS OF THE COL1A1 AND VDR GENES IN SEVERE ASTHMA PATIENTS TREATED WITH ORAL GLUCOCORTICOIDS
1Lab for Prenatal Diagnostics, Otts Institute of Obstetrics and Gynecology RAMS, St.-Petersburg, "Pulmonology department, Pulmonology Research Institute, 2Allergy department, Russian State Medical University, 3Rheumathological department, Institute of Rheumatology, Moscow, Russian Federation

P297  THE ROLE OF OBESITY IN THE IMPACT OF MENOPAUSE ON BONE MINERAL DENSITY
12nd Department of Internal Medicine-Propaedeutic, Research Institute, Attikon and Evgenidion University Hospitals, Athens University, Athens, Greece

P298  CHROMOSOME13 LOCUS FOR PEAK FEMORAL BONE MINERAL DENSITY MODULATES BONE FORMATION IN MICE
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P299  RELATION BETWEEN OSTEOID THICKNESS AND SERUM 25-HYDROXYVITAMIN D IN AMBULANT PATIENTS
1Clinical Biochemistry, 2Tissue Pathology, Institute of Medical and Veterinary Science, 3Bone Research, Hanson Centre, 4Medicine, Royal Adelaide Hospital, Adelaide, Australia

P300  HIP AXIS LENGTH PREDICTS BONE STRENGTH IN THE PROXIMAL FEMUR INDEPENDENT OF BMD - A HUMAN AUTOPSY STUDY
N. Nissen*, E. Hauge*, F. Melsen*, B. Abrahamsen*, K. Brixen*, J. Jensen*
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FRIDAY 12 MAY 2006
P301 ADULT-TYPE HYPOLACTASIA AND CALCIUM BALANCE: DECREASED CALCIUM INTAKE OR IMPAIRED CALCIUM ABSORPTION?
1Internal Medicine, Medical University Graz, 2Unit of Biostatistics, Center for Medical Research, 3Institute of Chemistry-Analytical Chemistry, Karl-Franzens-University, 4Clinical Institute of Medical and Chemical Laboratory Diagnostics, Medical University Graz, Graz, Austria

P302 AGE-RELATED CHANGES IN VITAMIN K-DEPENDENT GAMMA-GLUTAMYL CARBOXYLASE ACTIVITY AND RNA EXPRESSION IN FETUS, NEONATE, YOUNG AND ADULT MICE
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P303 PREVALENCE OF FRAGILITY FRACTURE IN WOMEN AND MEN WITH OSTEOPOROSIS, OSTEOPENIA AND NORMAL BONE MINERAL DENSITY (BMD): THE CANADIAN MULTICENTRE OSTEOPOROSIS STUDY (CAMOS)
1Medicine, McMaster University, Hamilton, 2Medicine, 3CaMos Analysis Centre, McGill University, Montreal, 4Medicine, Endocrinology, University of British Columbia, Vancouver, 5Medicine, Dalhousie University, Halifax, 6Medicine, University of Calgary, Calgary, 7Medicine, Laval University, Ste-Foy, 8Medicine, University of Saskatchewan, Saskatoon, 9Medicine, University of Toronto, Toronto, 10Medicine, Division of Rheumatology, Queen’s University, Kingston, 11Community Health and Epidemiology, Dalhousie University, Halifax, 12Medicine, Memorial University, St. John’s, 13CaMos National Coordinating Centre, McGill University, Montreal, 14Public Health Sciences, University of Toronto, Toronto, 15Radiology and Diagnostic Imaging, University of Alberta, Edmonton, 16Medicine, University of Manitoba, Winnipeg, 17Medicine, University of Ottawa, Ottawa, Canada

P304 ASSESSMENT OF THE INCIDENCE OF SECONDARY HYPERPARATHYROIDISM IN A GROUP OF ‘HEALTHY’ POST-MENOPAusal WOMEN SUFFERING FROM PRIMARY KNEE OSTEOARTHRITIS
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P305 THE IMPACT OF TOTAL KNEE REPLACEMENT ON INTACT-PTH LEVEL IN ‘HEALTHY’ POSTMENOPAUSAL WOMEN SUFFERING FROM PRIMARY OSTEOARTHRITIS OF THE KNEE
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P306 INFLUENCE OF PHYSICAL ACTIVITY ON BONE STRENGTH
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P307 IGF-I, IGF BINDING PROTEINS-1 AND -3 AND THEIR CORRELATION WITH BONE MINERAL DENSITY IN CIRRHOTIC PATIENTS UNDERWENT LIVER TRANSPLANTATION: A LONGITUDINAL STUDY
J. M. Pego-Reigosa*, C. Millan-Cachinero¹, N. Martinez-Lopez de Castro¹, I. Herrero-Santos¹, M. J. Gil-Calvo¹, V. Del Campo Pérez¹, L. Campos-Vilarino¹, J. A. Quiroga-Vila²
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P308 OSTEOCYTE DENSITY FROM ILLIAC CANCELLOUS BONE BIOPSY IN MALES WITH IDIOPATIC OSTEOPOROSIS
L. Perez-Edo*, M. Ciria¹, M. Mariñoso¹, J. Blanch¹, D. Rotés-Sala¹, S. Serrano¹, A. Diez-Perez¹, J. Carbonell¹
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P309 CORTICAL BONE MINERAL DENSITY INFLUENCED BY BODY MASS INDEX
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P310 OSTEOPOROSIS IN MASTOCYTOSIS
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P311 REFERENCE VALUES OF 25-HYDROXYVITAMIN D (25-OH D3) IN PREMENOPAUSAL VENEZUELAN WOMEN WITH NORMAL BONE MINERAL DENSITY
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P312 NO EFFECT OF VITAMIN K1 INTAKE ON BONE MINERAL DENSITY AND FRACTURE RISK IN PERIMENOPAUSAL WOMEN
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P313 OSTEOPOROSIS RISK FACTORS IN PATIENTS WITH ESTABLISHED AND SEVERE OSTEOPOROSIS; A MATCHED PAIRS ANALYSIS FROM THE OSSO SPANISH COHORT
M. Rentero*, E. Martin Mola, P. Aguado, A. Oteo, J. Zubieta
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P314 THE INFLUENCE OF KLOTHO GENE ON FEMALE SKELETAL AGING
1Internal Medicine, Hospital UM Valdecilla, University Cantabria, 2Geriatrics, Centro Mayores Cueto, 3Legal Medicine, University Cantabria, Santander, Spain

P315 AGE, BUT NOT SEX, INFLUENCE AROMATASE GENE EXPRESSION BY HUMAN BONE CELLS
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P316 MICROSATELLITES OF SEX HORMONE RECEPTORS AND BONE MINERAL DENSITY
M. T. Zarrabeitia, J. L. Hernandez, C. Valero, J. Gonzalez-Macias, J. A. Amado, J. A. Riancho
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P317 CLINICAL CHARACTERISTICS OF PATIENTS WITH FRAGILITY FRACTURES WITHIN OSTEOPENIC RANK
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1UNILIME UC, Hospital Universitario Angel Larralde. Universidad de Carabobo, Valencia, Venezuela
P318 WITH WHAT BONE DENSITY DO MY PATIENTS FRACTURE? A LATIN AMERICAN CLINICAL EXPERIENCE

G. S. Riera-Espinoza*, F. A. Riera

1UNILIME UC, Hospital Universitario Angel Larralde. Universidad de Carabobo, Valencia, Venezuela

P319 ALTERED BONE COLLAGEN/MINERAL NANO-COMPOSITE PROPERTIES IN FEMORAL NECK CORTICES OF OSTEOPOROTIC WOMEN


1Ludwig Boltzmann Inst. of Osteology at the Hanusch Hospital of WGKK and AUVA Trauma Centre Meidling, 4th Med. Dept. Hanusch Hospital, Vienna, Austria, 2Dept. of Biomaterials, Max Planck Institute of Colloids and Interfaces, Potsdam, Germany, 3Bone Research Group, MRC, University of Cambridge Clinical School, Cambridge, United Kingdom

P320 OSTEOPOIKILOSIS

V. Ruci*, D. Ruci

1Department of Orthopaedics and Bone Diseases, 2Department of Rheumatology, Mother Teresa University Hospital Tirana, Albania, Tirana, Albania

P321 RISK FACTORS OF DEVELOPMENT OF OSTEOPENIA IN CHILDREN WITH BRONCHIAL ASTHMA

L. A. Scheplyagina*, T. Y. Moisseyeva, I. V. Kruglova, V. A. Tomashevskaya

1Laboratory of Osteoporosis, Research Center of Children Health, Russian Academy of Medical Sciences, Moscow, Russian Federation

P322 FREQUENCY AND DISTRIBUTION OF FEMORAL NECK FRACTURES IN FEMALES OVER 65 IN HUNGARY


1County Baranya Health Insurance Fund, National Health Insurance Fund Administration, Pécs, 2Department of Health Policy, National Health Insurance Fund Administration, Budapest, 3Department of Traumatology and Hand Surgery, 4Institute of Public Health and Preventive Medicine, University of Pécs, Pécs, Hungary

P323 EARLY MORTALITY RATE OF FEMORAL NECK FRACTURE IN FEMALES OVER 65 IN HUNGARY


1County Baranya Health Insurance Fund, National Health Insurance Fund Administration, Pécs, 2Department of Health Policy, National Health Insurance Fund Administration, Budapest, 3Department of Traumatology and Hand Surgery, 4Institute of Public Health and Preventive Medicine, University of Pécs, Pécs, Hungary
P324 RELATIONSHIP OF INFLAMMATORY CYTOKINES TO BONE MINERAL DENSITY AND CONTENT IN HEALTHY POSTMENOPAUSAL WOMEN
N. E. Silverman1, E. Gertz2, K. B. Hanson1, J. W. Stewart1, D. L. Alekel1, L. N. Hanson1, C. B. Stephensens1, M. D. Van Loan1
1Department of Nutrition, University of California at Davis, 2USDA, ARS, Western Human Nutrition Research Center, Davis; 3Department of Food Science and Human Nutrition, Iowa State University, Ames, United States

P325 POLYMORPHISM IN FARNESYL PYROPHOSPHATE-SYNTASE (FDPS) GENE AND RELATION WITH BONE MINERAL DENSITY AND RESPONSE TO AMINOBIOSFOSFONATE TREATMENT
S. Silvestri1*, S. S. Carbonell1, C. Christiansen2, M. Brandi1
1Internal Medicine, University of Florence, Florence, Italy, 2CCBR, Center for Clinical and Basic Research, Ballerup, Denmark

P326 DETERMINATION OF BMD IN NORMAL POPULATION OF SHIRAZ
M. Taghavi1
1Endocrine Department, Mashhad Medical University, Mashhad, Iran (Islamic Republic of)

P327 IS THERE ANY RELATIONSHIP BETWEEN SERUM MG LEVELS AND OSTEOPOROSIS IN THE ELDERLY?
Z. Ulger2*, M. Cankurtaran1, M. Hall1, B. Yavuz1, T. Yildirim1, S. Arioglu2
1Internal Medicine, 2Internal Medicine, Division of Geriatric Medicine, Hacettepe University, Ankara, Turkey

P328 CONTRIBUTIONS OF BODY COMPONENTS TO BONE MASS IN YOUNG MEN AND WOMEN
C. Valero2*, . M. T. Zarrabeitia1, . J. L. Hernández1, . J. González Macías1, . J. A. Riancho1
1Departments of Internal Medicine and Legal Medicine, University of Cantabria, Santander, Spain

P329 A 7-YEAR FOLLOW-UP STUDY ON BONE METABOLISM IN CHILDREN AND ADOLESCENTS WITH TYPE 1 DIABETES MELLITUS
1Medicine. Osteoporosis Unit., University Hospital Virgen Macarena, Seville, Spain

P330 PROTON PUMP INHIBITORS, HISTAMINE H2 RECEPTOR ANTAGONISTS, AND OTHER ANTACID MEDICATIONS AND RISK OF FRACTURE
P. Vestergaard2*, L. Rejnmark2, L. Mosekilde2
1The Osteoporosis Clinic, 2Department of Endocrinology and Metabolism C, Aarhus Amtssygehus, Aarhus, Denmark
P331 FRACTURE RISK ASSOCIATED WITH USE OF MORPHINE AND OPIATES
P. Vestergaard*, L. Rejnmark², L. Mosekilde²
¹The Osteoporosis Clinic, ²Department of Endocrinology and Metabolism C, Aarhus Amtssygehus, Aarhus, Denmark

P332 FRACTURE RISK ASSOCIATED WITH USE OF NON-STEROIDAL ANTI-INFLAMMATORY DRUGS (NSAID), ACETYLSALICYLIC ACID, AND ACETAMINOPHEN, AND THE INTERACTION WITH RHEUMATOID ARTHRITIS AND OSTEOARTHRITIS
P. Vestergaard*, L. Rejnmark², L. Mosekilde²
¹The Osteoporosis Clinic, ²Department of Endocrinology and Metabolism C, Aarhus Amtssygehus, Aarhus, Denmark

P333 A GENOMEWIDE LINKAGE SCAN IN A FAMILY WITH A HIGHLY PENETRANT FORM OF OSTEOPOROSIS
C. Vidal*, R. Galea², M. Brincat³, A. Xuereb-Anastasi³
¹Department of Pathology, ²Department of Obstetrics and Gynaecology, ³Institute of Health Care, University of Malta, G'Mangia, Malta

P334 BMP-6 INCREASES BONE MINERAL DENSITY AND REDUCES GLYCEMIA IN OSTEOPENIC MICE
P. Simic*, J. Buljan Culej¹, I. Orlic¹, M. Zuvic¹, F. Borovecki¹, S. Vukicevic¹
¹Department of Anatomy, ²Department of Nuclear Medicine, School of Medicine, Zagreb, Croatia

P335 BIODISTRIBUTION AND IN VIVO EFFICACY OF SYSTEMICALLY ADMINISTERED AND FROM URINE PURIFIED SOLUBLE BMP-7/BMP-6 HYBRID MOLECULE IN RATS
L. Grgurevic*, S. Vukicevic¹
¹Department of Anatomy, School of Medicine, Zagreb, Croatia

P336 DIFFERENTIAL EFFECTS OF TWO PRO-APOPTOTIC MEMBERS OF THE BCL-2 GENE FAMILY ON MURINE BONE QUALITY
L. M. Wise*, A. Benito², G. Nunez³, G. Perez³, J. Tilly³, A. Jurisicova¹, M. D. Grynpas¹
¹Samuel Lunenfeld Research Institute, Mount Sinai Hospital and University of Toronto, Toronto, Canada, ²Department of Pathology and Comprehensive Cancer Center, University of Michigan Medical School, Ann Arbor, ³Massachusetts General Hospital, Harvard Medical School, Boston, United States

P337 MECHANISMS FOR METHOTREXATE CHEMOTHERAPY-INDUCED BONE GROWTH ARREST AND OSTEOOPENIA IN GROWING LONG BONES
C. J. Xian*, J. C. Cool¹, C. E. Macsai¹, M. Covino¹, M. Scherer¹, C. Fan¹, B. K. Foster¹
¹Department of Orthopaedic Surgery, Women and Children Hospital, Adelaide, Australia
MEET THE PROFESSOR SESSIONS

Numbers limited. Entry is by ticket only, to be collected on a first-come first-served basis from the registration desk on the day of the session. Boxed lunches may be collected for consumption during the sessions.

Club Room A  MECHANICAL LOADING AND THE SKELETON  
Lance Lanyon (London UK)

Club Room B  OSTEOPETROSIS  
Uwe Kornak (Berlin, Germany)

Club Room C  CONTROVERSIES IN TREATMENT OF OSTEOSARCOMA  
Steve Cummings (San Francisco, USA)

Club Room D  MATRIX BIOLOGY  
Pam Robey (Bethesda, USA)

Club Room H  RARE BONE DISEASES IN CHILDREN  
Craig Langman (Chicago, USA)

SYMPOSIUM 4  
Mineralisation

Chairs: Moustapha Kassem (Odense, Denmark)  
Slobodan Vukicevic (Zagreb, Croatia)

14:00 I020  CELLULAR REGULATION OF MINERALISATION  
T. Kirsch*  
*Orthopaedics, University of Maryland School of Medicine, Baltimore, United States

14:30 I021  GENETICS AND DISORDERS OF MINERALISATION  
M. A. Brown*  
*Musculoskeletal Genetics Program, Centre for Immunology and Cancer Research, Brisbane, Australia

ORAL COMMUNICATIONS 5  
Osteoblasts and Bone Formation

Chairs: Moustapha Kassem (Odense, Denmark)  
Slobodan Vukicevic (Zagreb, Croatia)

15:00 OC021  TWIST CONTROLS CBL-MEDIATED PI3K UBIQUITINATION AND SIGNALLING IN OSTEOLASTS  
H. Guenou*, C. Dufour, K. Kaabeche, H. Miraoui, P. J. Marie  
*Laboratory of Osteoblast Biology and Pathology, INSERM U606, Paris, France
15:12 OC022 NFAT AND SRF TRANSCRIPTION FACTORS COOPERATE TO REGULATE KROX20 GENE EXPRESSION IN BONE
M. Frain*, A. Nordheim, P. Charnay
1INSERM U368, Ecole Normale Superieure, Paris, France, 2Institute of Cell Biology, Tuebingen University, Tuebingen, Germany

15:24 OC023 BIM IS A NOVEL REGULATOR OF APOPTOSIS IN OSTEOBLASTS
B. Espina, M. Liang, G. Russell, P. A. Hulley*
1Botnar Research Centre, University of Oxford, Oxford, United Kingdom

15:36 OC024 DEFICIENT OSTEOBLAST PROLIFERATION, DIFFERENTIATION AND FUNCTION INDUCE OSTEOPENIC PHENOTYPE IN SOX4 HAPLOINSUFFICIENT MICE
1Department of Experimental Medicine, University of L’Aquila, L'Aquila, Italy, 2Department of Biochemistry, Institute for Basic Medical Sciences, University of Oslo, 3Endocrine Section, Department of Medicine, National University Hospital, Oslo, Norway, 4Department of Rehabilitation and Geriatrics, Geneva University Hospital, Geneva, Switzerland, 5Department of Pathology, National University Hospital, 6Department of Biochemistry, Institute for Basic Medical Sciences, University of Oslo and Ullevaal University Hospital, Oslo, Norway

15:48 OC025 MICE LACKING THE EPITHELIAL CALCIUM CHANNEL TRPV5 HAVE THINNER AND UNDERMINERALISED BONES
1Internal Medicine, Erasmus MC, Rotterdam, Netherlands, 2Ludwig Boltzmann Institute of Osteology, WGGK and AUVA Trauma Centre Meidling, 4th Medical Department, Hanusch Hospital, Vienna, Austria, 3Cell Physiology, NCMLS, Radboud University Nijmegen Medical Center, Nijmegen, 4Orthopedics, Erasmus MC, Rotterdam, Netherlands

16:00 - 16:30
COFFEE BREAK
SHORT ORAL COMMUNICATIONS 1

Chairs: 
Csaba Horvath (Budapest, Hungary) 
Bente Langdahl (Aarhus, Denmark)

16:30 P001 DECREASED FRACTURE RISK IN PATIENTS TREATED WITH ORAL NITRATES
L. Rejnmark*, P. Vestergaard, L. Mosekilde
1The Osteoporosis Clinic, 2Dept of Endocrinology and Metabolism C, University Hospital of Aarhus, Aarhus, Denmark

16:35 P002 MECHANISMS OF PYROPHOSPHATE INHIBITION OF MINERALIZATION IN MC3T3-E1 OSTEOBLAST CULTURES
W. N. Addison, F. Azar, M. T. Kaartinen, M. D. McKee
1Faculty of Dentistry, McGill University, Montreal, Canada

16:40 P003 STRONTIUM RANELATE REDUCES NEW VERTEBRAL FRACTURES IN A SEVERE OSTEOPOROTIC MICE MODEL WITH SPONTANEOUS FRACTURES BY IMPROVING BONE MICROARCHITECTURE
V. Geoffroy*, C. Marty, A. Lalande, M. C. De Vernejoul
1INSERM U606, Hospital Lariboisiere, Paris, 2Groupe Servier, Rheumatology Division, Courbevoie, France

16:45 P004 INCREMENTAL PROGNOSTIC VALUES OF RISK FACTORS-BASED MODEL FOR THE PREDICTION OF FRACTURE
N. D. Nguyen*, J. A. Eisman, J. R. Center, T. V. Nguyen
1Bone and Mineral Research Program, Garvan Institute of Medical Research, Sydney, Australia

16:50 P005 HIGH RESOLUTION GENOTYPING OF THE ESR1 GENE AND ASSOCIATION WITH HEIGHT
1Internal Medicine, 2Epidemiology and Biostatistics, Erasmus MC, Rotterdam, Netherlands

16:55 P006 EVIDENCE THAT A POLYMORPHISM IN THE LACTASE PHLOORIZIN HYDROLASE GENE CAUSES DIFFERENCES IN HEIGHT INDEPENDENT OF CURRENT CALCIUM INTAKE
1Internal Medicine, Erasmus MC, Rotterdam, Netherlands
A SINGLE DOSE OF ZOLEDRONIC ACID 5 MG ACHIEVES MORE SUSTAINED BIOCHEMICAL REMISSION VERSUS DAILY 30MG RISEDRONATE IN PATIENTS WITH PAGET’S DISEASE


1Faculty of Medicine and Health Sciences, University of Auckland, Auckland, New Zealand, 2Colorado Center for Bone Research, Lakewood, CO, United States, 3Le Centre hospitalier universitaire de Quebec, Sainte-Foy, Quebec, Canada, 4Royal Liverpool, University Hospital, Liverpool, 5Nottingham, City Hospital, Nottingham, United Kingdom, 6Cliniques Universitaires, St. Luc, Brussels, Belgium, 7Kings College Hospital, London, United Kingdom, 8, Repatriation General Hospital, Concord, Australia, 9, Novartis Pharma AG, Basel, Switzerland, 10, Novartis Pharmaceuticals Corporation, East Hanover, 11Duke University and VA Medical Centers, Durham, NC, United States

ANDROGEN RECEPTOR POLYMORPHISM: ASSOCIATION WITH LEAN MASS AND BONE MASS IN MEN OF AFRICAN HERITAGE


1Epidemiology and Human Genetics, 2Epidemiology, University of Pittsburgh, Pittsburgh, United States, 3Epidemiology, Tobago Health Studies Office, Scarborough, Trinidad and Tobago, 4Human Genetics, University of Pittsburgh, Pittsburgh, United States

CALCITONIN PROTECTS AGAINST EXPERIMENTALLY INDUCED OSTEOARTHRITIS

B. C. Sondergaard, K. Henriksen, H. Wulf, S. Oestergaard, L. B. Tanko, P. Qvist, C. Christiansen, M. A. Karsdal

1Pharmacology, Nordic Bioscience, Herlev, Denmark

17:15 P010 EPIDGENETICS: A MOLECULAR TARGET IN OSTEOARTHRITIS?

H. I. Roach*, N. Yamada, K. S. Cheung, R. O. Oreffo, F. Bronner

1Bone and Joint Research Group, University of Southampton, Southampton, United Kingdom, 2Orthopaedic Dept, Tohoku University, Sendai, Japan, 3Health Center, University of Connecticut, Farmington, United States

BREAK
18:00 - 19:30  CONGRESS HALL - SECOND FLOOR

SATELLITE SYMPOSIUM 5
Evolving Concepts in Bone Health: RANK/RANKL/OPG as a Therapeutic Target
SUPPORTED BY AMGEN

**Chair:** Silvano Adami (Verona, Italy)

- **THE EFFECT OF RANKL INHIBITION ON BONE STRENGTH IN PRECLINICAL MODELS**
  Paul Kostenuik (Thousand Oaks, USA)

- **NEW CLINICAL INSIGHTS WITH RANKL INHIBITION**
  Pierre Delmas (Lyon, France)

- **FRACTURE RISK ASSESSMENT**
  John Kanis (Sheffield, UK)

20:00

CULTURAL EVENT /
ECTS FOOTBALL TOURNAMENT

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<td>08.30</td>
<td>Symposium 5: Emerging molecular targets in bone disease</td>
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<td>Workshop 6: Craniofacial diseases</td>
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<td>PANORAMA HALL</td>
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<td>EXHIBITION AND POSTER HALL</td>
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<td>Orals 7: Genetics</td>
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<td>Symposium 6: Matrix disorders</td>
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<td>Clinical Cases</td>
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<td>Satellite Symposium 6</td>
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08:00 - 08:30
POSTER VIEWING

08:30 - 09:30
CONGRESS HALL - SECOND FLOOR

SYMPOSIUM 5
Emerging Molecular Targets in Bone Disease

Chairs: Jaroslav Blahos (Prague, Czech Republic)  
Sundeep Khosla (Rochester, USA)

08:30 I022 EMERGING TARGETS FOR NEW DRUGS IN BONE DISEASES
R. Baron*

1Orthopaedics and Cell Biology, Yale University School of Medicine, New Haven, United States

09:00 I023 NEW APPLICATIONS FOR OLD DRUGS
L. Mosekilde**

1Dept. of Endocrinology and Metabolism C, Aarhus University Hospital, Aarhus, Denmark

09:30 - 10:30
CONGRESS HALL - SECOND FLOOR

ORAL COMMUNICATIONS 6
Hormonal Regulation of Bone

Chairs: Jaroslav Blahos (Prague, Czech Republic)  
Sundeep Khosla (Rochester, USA)

09:30 OC026 CARDIOTROPHIN-1 REGULATES OSTEOCLAST AND OSTEOBLAST FUNCTION IN A MANNER DISTINCT FROM OTHER GP130 CYTOKINES
N. A. Sims**, E. C. Walker†, J. M. W. Quinn†, E. A. Allan†, H. Saleh†, T. Martin†

1Bone, Joint and Cancer Group, St. Vincent’s Institute, Fitzroy, Australia

09:42 OC027 DELETION OF GHRELIN, BUT NOT ITS RECEPTOR GHSR, LEADS TO TRABECULAR BONE CHANGES IN AGING MALE MICE
M. Van der Velde**, B. C. J. Van der Eerden†, P. J. Delhanty†, Y. Surr†, R. G. Smith†, A. J. Van der Lely†, H. A. P. Pols†, J. P. T. M. Van Leeuwen†

1Internal Medicine, Erasmus MC, Rotterdam, Netherlands, ‘Huffington Center on Aging, Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, United States
09:54  OC028  INHIBITION OF GLUCOCORTICOID SIGNALING IN MATURE OSTEOBLASTS INHIBITS CRITICAL PARACRINE SIGNALS BETWEEN OSTEOBLASTS AND THEIR PRECURSORS

H. Zhou¹, W. W. Mak¹, Y. Zheng¹, C. R. Dunstan¹, M. J. Seibel*¹
¹Bone Research Programme, Anzac Research Institute, Sydney, Australia

10:06  OC029  MECHANICAL STRAIN AND THE ESTROGEN RECEPTOR INTERACT WITH THE WNT PATHWAY IN OSTEOBLAST-LIKE CELLS

V. J. Armstrong**, M. Muzylak¹, S. Allen¹, D. B. Ong¹, H. L. Jessop¹, J. S. Price¹, L. E. Lanyon¹
**Veterinary Basic Sciences, The Royal Veterinary College, London, United Kingdom

10:18  OC030  ACTIVATION OF THE ONCOSTATIN M RECEPTOR RESULTS IN SUBSTANTIALLY MORE EFFECTIVE STIMULATION OF BONE RESORPTION, RANKL AND IL-6 MRNA EXPRESSION, STAT3 AND ERK1/2 ACTIVATION, COMPARED TO THE LEUKEMIA INHIBITORY FACTOR RECEPTOR

E. Persson**¹, U. H. Lerner¹
¹Dept. Oral Cell Biology, Umeå University, Umeå, Sweden

10:30 - 11:00 COFFEE BREAK

11:00 - 12:30 CONGRESS HALL - SECOND FLOOR

WORKSHOP 5  
Loading

Chairs:  Nadia Rucci (L’Aquila, Italy)
        Tim Skerry (Sheffield, UK)

11:00  I024  EXPERIMENTAL CONTROL OF MECHANICALLY ADAPTIVE BONE (RE)MODELLING IN VIVO

L. E. Lanyon**
**Veterinary Basic Sciences, Royal Veterinary College, London, United Kingdom

11:30  I025  INFLAMMATORY MEDIATORS AND MECHANICAL LOADING OF THE JOINT

B. Fermor**
**Surgery, Division of Orthopaedics, Duke University Medical Center, Durham, United States

12:00  I026  FLUID FLOW EFFECTS ON OSTEOCYTES AND OSTEOBLASTS

H. J. Donahue**, R. C. Riddle¹, A. F. Taylor¹, D. S. Shingle¹, D. C. Genetos¹
**Musculoskeletal Sciences, Pennsylvania State University, Hershey, United States
WORKSHOP 6
Cranofacial Diseases

**Chairs:**
- Uwe Kornak (*Berlin, Germany*)
- Vaclav Vyskocil (*Pilsen, Czech Republic*)

11:00 I027 GENETICS AND DEVELOPMENT OF CRANIOFACIAL DISORDERS
A. O. M. Wilkie*

*Weatherall Institute of Molecular Medicine, University of Oxford, Oxford, United Kingdom*

11:30 I028 GENETICS OF TOOTH DEVELOPMENT
P. T. Sharpe*

*Craniofacial Development, Kings College London, London, United Kingdom*

12:00 I029 SURGERY OF CRANIOFACIAL MALFORMATIONS AND DEFECTS
H.-P. Howaldt*

*Department of Oral and Maxillofacial Surgery, Universitätsklinikum Gießen, Gießen, Germany*

**LUNCH & POSTERS**

The following posters will be manned 13:00-14:00

**P338** DIAGNOSTIC PERFORMANCE OF RISK FACTORS IN PATIENTS REFERRED FOR OSTEODENSITOMETRY
M. Malling*, P. C. Eskildsen*, B. Abrahamsen*

*RASK Osteoporosis Clinic, Roskilde University Hospital, Koge, Denmark*

**P339** THREE-FOURTHS OF FRAGILITY FRACTURES ARE NONVERTEBRAL AMONG WOMEN IN MANAGED CARE
J. D. Adachi*, S. Magowan†, J. Lange*, S. Gehlbach†

*Saint Joseph’s Hospital, McMaster University, Hamilton, Canada, †Medical and Technical Affairs, Epidemiology and PharmacoEconomics, Procter and Gamble Pharmaceuticals, Mason, ‡Epidemiology, University of Massachusetts, Amherst, United States*

**P340** GREATER THAN 90% OF MANAGED CARE COSTS FOR FRAGILITY FRACTURES ARE NONVERTEBRAL IN NATURE AMONG WOMEN
J. Adachi*, S. Magowan†, N. Borisov‡, J. Lange*, R. Ohsfeldt†

*St. Joseph’s Hospital, McMaster University, Hamilton, Canada, †Medical and Technical Affairs, Epidemiology and PharmacoEconomics, ‡Epidemiology, Procter and Gamble Pharmaceuticals, Mason, †School of Rural Public Health, Texas AM, Bryan, United States*
P341 RENAL TOLERABILITY PROFILE OF INTERMITTENT INTRAVENOUS IBANDRONATE INJECTIONS IN POSTMENOPAUSAL WOMEN WITH OSTEOPOROSIS: DIVA 2-YEAR ANALYSIS
S. Adami*1, C. Benhamou1, V. Vyskocil3, C. Leight1, F. Sedarati4, B. Minic5, D. M. Reid6
1University of Verona, Verona, Italy, 2IPROS-CHR, Orleans, France, 3University Hospital, Plzen, Czech Republic, 4F. Hoffmann-La Roche Ltd, Basel, Switzerland, 5University of Aberdeen, Aberdeen, United Kingdom

P342 AUTOMATIC ASSESSMENT OF VERTEBRAL SHAPE USING ACTIVE APPEARANCE MODELS
J. E. Adams*1, M. G. Roberts1, T. Cootes1
1Imaging Science and Biomedical Engineering, University of Manchester, Manchester, United Kingdom

P343 STRONTIUM RANELATE PREVENTS ALTERATION OF BONE STRENGTH IN OVX RATS BY IMPROVING INTRINSIC BONE TISSUE QUALITY
P. Ammann*1, I. Badoud1, V. Shen1, S. Bain2, I. Dupin-Roger1, R. Rizzoli2
1Division of Bone Diseases, Department of Rehabilitation and Geriatrics, University Hospital, Geneva, Switzerland, 2SkeleTech, MDS Pharma Services, Bothell, United States, 3Rheumatology Division, Groupe Servier, Courbevoie, France

P344 4 YEARS CONTINUOUS TREATMENT WITH RISEDONATE AND ITS EFFECT ON BONE TURNOVER MARKERS AND QUALITY OF LIFE OF POSTMENOPAUSAL WOMEN
L. Anadiotis1, I. C. H. Koulouris*2, G. Skarantavos3, G. C. H. Koulouris1
1Biochemistry, Evangelismos General Hospital, 2Orthopaedics, 3st IKA Egaleo, 3Reumatology, Attikon University Hospital, 4Psychiatry, Aeginition University Hospital, Athens, Greece

P345 EFFECT ON BONE DENSITY OF ONE YEAR TREATMENT OF OSTEOSOROTIC PATIENTS WITH TERIPARATIDE VERSUS RISEDONATE
A. Anastasilakis*1, S. Polyzos1, Z. Efstathiadou1, G. Koukoulis2, M. Kita1, A. Avramidis3
1Department of Endocrinology, Hippocrates General Hospital, Thessaloniki, 2Department of Endocrinology, Medical School of Thessalia, Larisa, Greece

P346 PREVENTION OF THE BONE TISSUE QUALITATIVE DETERIORATION IN MENOPAUSE WITH RALOXIFENE
P. Astazi*1, L. Miron2
1Internal Medicine, OsteoRESEARCH, 2Reumatology, Catholic University School of Medicine, ROMA, Italy

P347 CROSS-CALIBRATION OF THE LEXXOS CONE BEAM DENSITOMETER WITH THE HOLOGIC QDR-4500
M. Audran*1, Y. Simon1, R. Levasseur1, D. Chappard1, E. Legrand1
1INSERM, EMI 0335, Faculty of medicine, Angers, France
P348  A NEW DIGITAL MORPHOMETRIC METHOD TO ASSESS VERTEBRAL FRACTURES IN CLINICAL PRACTICE: A MULTICENTER PILOT STUDY

D. Banzer*, R. Andresen†, G. Möller‡

1Radiology, Heerstr. 75, D-14055 Berlin, 2Radiology, KMG Klinikum Güstrow GmbH, D-18273 Güstrow, 3Medical Affairs, Procter and Gamble Pharmaceuticals - Germany GmbH, D-6584 Schwalbach am Taunus, Germany

P349  TERIPARATIDE, HRT AND OSTEOPOROSIS

A. Bazarra-Fernandez*

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P363 CROSS CALIBRATION OF GE-LUNAR IDXA AND PRODIGY BONE DENSITOMETERS
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P364 VERTEBRAL FRACTURE ASSESSMENT WITH DXA
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P376 IDENTIFICATION OF VERTEBRAL DEFORMITIES USING DUAL X-RAY ABSORPTIOMETRY (DXA): AN ITALIAN MULTICENTRIC STUDY

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P378 PREVALENCE OF VITAMIN D INSUFFICIENCY IN DANISH ADULTS WITH FRAILTY HIP FRACTURES
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P379 COMPARISON OF SERUM TARTRATE-RESISTANT ACID PHOSPHATASE ASSAYS FOR MONITORING ALENDRONATE TREATMENT

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P380 VITAMIN D INADEQUACY IN PATIENTS WHO ARE SCREENED FOR OSTEOPOROSIS

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P381 VOLUMETRIC BONE MINERAL DENSITY DISTRIBUTION IN LONG BONES AFFECTED OR NOT BY GRAVITY IN 250 NORMAL MEN AND PRE- AND POST-MENOPAUSAL WOMEN. A PERIPHERAL QUANTITATIVE COMPUTED TOMOGRAPHY STUDY
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P384 EFFECT OF CYCLOSPORINE ON BONE REMODELING IN RATS
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P385 EFFECT OF RALOXIFENE AND LOW-DOSE TACROLIMUS ON BONE HISTOMORPHOMETRIC PARAMETERS IN MALE RATS
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P386 EFFECTS OF RALOXIFENE ON THE OSSEOUS SYSTEM OF MALE RATS
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P389 THE PREVALENCE OF VITAMIN D INSUFFICIENCY IN POSTMENOPAUSAL WOMEN WITH OSTEOPOROSIS BEFORE AND AFTER 12 MONTHS OF TREATMENT WITH CA AND VITAMIN D
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P390 EFFECTS OF CREATINE, GLUCOSE, AND CELL-CELL CONTACTS ON NORMAL AND OSTEOPOROTIC HUMAN OSTEOBLAST-LIKE CELLS IN VITRO
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P391 TWO YEARS OF ALENDRONATE AND CALCITONIN TREATMENTS IN POSTMENOPAUSAL OSTEOPOROSIS
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P392 EFFECTS OF RALOXIFENE AND CALCITONIN TREATMENTS ON BONE MINERAL DENSITY IN POSTMENOPAUSAL OSTEOPOROSIS AFTER ONE YEAR
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P393 EVALUATION OF DXA SPINE, HIP AND DUAL HIP PRECISION USING THE PRODIGY
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P394 ARE TROCHANTERIC BMD MEASUREMENTS CAPABLE OF REPLACING THE VERTEBRAL ONES ?
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P395 ROLE OF PROSTAGLANDINS IN THE ANABOLIC EFFECTS OF STRONTIUM RANELATE
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P396 BONE MINERAL DENSITY AND HEALTH RELATED QUALITY OF LIFE IN YOUNG ADULTS WITH JUVENILE IDIOPATHIC ARTHRITIS
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P397 RELATIONSHIPS BETWEEN BONE ANABOLIC, PROTEOANABOLIC AND LIPOLYTIC EFFECTS OF GROWTH HORMONE (GH) REPLACEMENT IN GH DEFICIENT ADULTS

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P398 APPLICATION OF A TRIAGE APPROACH FOR THE DIAGNOSIS OF OSTEOPOROSIS: RISK INDICES AND PERIPHERAL BONE DENSITOMETRY

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P399 RESULTS FROM A 3-YEAR STUDY DESIGNED TO EVALUATE THE EFFECT OF SODIUM ON BONE MINERAL DENSITY IN POSTMENOPAUSAL WOMEN

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P400 THE CARE GAP IN FAMILY PHYSICIANS’ AWARENESS OF KEY RISK FACTORS FOR FRACTURE AND THE APPROPRIATE USE OF BONE MINERAL DENSITY (BMD) TESTING FOLLOWING A COMPREHENSIVE OSTEOSORPOROSIS EDUCATIONAL INTERVENTION: CANADIAN QUALITY CIRCLE (CQC) NATIONAL PROJECT


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P401 FAMILY PHYSICIANS’ UTILIZATION OF BONE MINERAL DENSITY (BMD) TESTING, AND THE RATE THAT BISPHOSPHONATES ARE PRESCRIBED TO THEIR PATIENTS WITH KEY RISK FACTORS FOR FRACTURE: CANADIAN QUALITY CIRCLE (CQC) PILOT PROJECT


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P402  THE RATE THAT FAMILY PHYSICIANS PRESCRIBE OSTEOPOROSIS MEDICATIONS TO THEIR PATIENTS WITH FRACTURES: CANADIAN QUALITY CIRCLES (CQC) NATIONAL PROJECT


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P403  FAMILY PHYSICIANS’ AWARENESS OF HEIGHT LOSS AND KYPHOSIS IN THEIR PATIENTS AND THE APPROPRIATE USE OF X-RAY ORDERING FOLLOWING A MULTIFACETED OSTEOPOROSIS EDUCATIONAL INTERVENTION: CANADIAN QUALITY CIRCLE (CQC) NATIONAL PROJECT


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P404  EFFECT OF MILK BASIC PROTEIN (MBP) SUPPLEMENTATION ON BONE MASS AND BONE TURNOVER IN JAPANESE YOUNG ADULT AND PERIMENOPAUSAL WOMEN

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P405  EFFECT OF TEAM-BASED THERAPY ON HEALTH-RELATED BEHAVIOUR OF POSTMENOPAUSAL WOMEN WITH OSTEOPOROSIS

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P406  PHYSIOTHERAPY IN OSTEOPOROSIS PATIENTS: UTILIZATION AND BENEFITS

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P407  AGE RELATED CHANGES IN BONE MINERAL DENSITY IN HEALTHY INDIAN ROLE OF SEX STEROIDS

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TUMORAL CALCINOSIS OF THE HAND
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INSULIN RESISTANCE IN POSTMENOPAUSAL WOMEN: THE BENEFIT OF VITAMIN D SUPPLEMENTATION
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A COMPARISON OF GE HEALTHCARE LUNAR PRODIGY AND IDXA DENSITOMETERS
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RISEDRONATE 35 MG PLUS CALCIUM COMBINATION PACKAGE IMPROVES COMPLIANCE AND INFLUENCES PATIENT’S PREFERENCE
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SYNERGISTIC EFFECTS OF AGOUTI PROTEIN AND ROSIGLITAZONE ON BONE LOSS IN A MURINE MODEL OF OBESITY AND TYPE 2 DIABETES
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RANKL INHIBITION BY OPG PREVENTS BONE LOSS AND PRESERVES TRABECULAR ARCHITECTURE IN ORCHIECTOMIZED RATS
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UTILITY VALUE OF OSTEOPOROSIS SCREENING WITH FRACTURE RISK EVALUATION IN KOREAN WOMEN
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P415 RESPONSE TO ONCE-MONTHLY AND DAILY ORAL IBANDRONATE IN THE MOBILE STUDY: 2-YEAR ANALYSIS
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P416 PREDICTION OF FEMORAL HEAD COLLAPSE FOR PATIENTS WITH FEMORAL HEAD NECROSIS USING BMD AND MRI
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P417 STRONTIUM RANELATE STIMULATES MURINE OSTEOBLAST REPLICATION INDEPENDENTLY OF CALCIUM SENSING RECEPTOR-MEDIATED ERK1/2 ACTIVATION
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P418 DOSE RESPONSE OF LEPTIN ON BONE METABOLISM: A PUTATIVE ROLE FOR ENERGY INTAKE AND IGF-1 PATHWAY
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P419 ICV LEPTIN ADMINISTRATION ALTERS BONE METABOLISM AND HORMONAL STATUS IN RATS
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P420 THE USEFULNESS OF PERIPHERAL BONE DENSITOMETRY IN THE DIAGNOSIS OF OSTEOPOROSIS IN PATIENTS WITH COELIAC DISEASE
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P421 THE TERIPARATIDE IN THE THERAPY OF THE SENILE SEVERE OSTEOPOROSIS
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P422 SHORT TERM HORMONE REPLACEMENT THERAPY RESULTS IN LONG TERM GAINS IN BONE MINERAL DENSITY
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P423 DOES PREVIOUS TREATMENT WITH BISPHOSPHONATES IMPAIR THE RESPONSE TO TERIPARATIDE?
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P424 DENOSUMAB (AMG 162) TREATMENT FOR TWO YEARS INCREASES BMD AND REDUCES MARKERS OF BONE TURNOVER IRRESPECTIVE OF BASELINE WEIGHT AND BMI
P. D. Miller*, E. M. Lewiecki, M. Peacock, M. A. Bolognese, A. Wang, Y. Liu, L. A. Fitzpatrick
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P425 PTH(1-84) PREVENTS VERTEBRAL FRACTURES IN POST MENOPAUSAL WOMEN WITH HIGHER FRACTURE RISK: RESULTS FROM THE TOP STUDY
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P426 NOVEL FLUOROCHROME MARKERS TO DETECT MICRODAMAGE IN BONE
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P427 EFFECTS OF INTRAVENOUS PAMIDRONATE ON BONE LOSS AFTER LIVER TRANSPLANTATION
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P428 PREVALENCE OF VITAMIN D INADEQUACY IN OSTEOPOROTIC HIP FRACTURE PATIENTS IN S.E. LONDON

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P429 BONE TURNOVER INCREASES IN EARLY POSTMENOPAUSAL COMPARE TO PREMENOPAUSAL WOMEN

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P430 INDIRECT COMPARISON OF ANTI-VERTEBRAL FRACTURE EFFICACY AMONG AVAILABLE THERAPIES: A BAYESIAN ANALYSIS

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P431 ON THE ASSOCIATION BETWEEN STATIN AND FRACTURE: A BAYESIAN CONSIDERATION

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P432 A GROUP-BASED EDUCATION PROGRAMME INCREASES KNOWLEDGE ON OSTEOPOROSIS AND ADHERENCE TO PHARMACOLOGICAL TREATMENT. INTERIM ANALYSIS FROM A RANDOMISED TRIAL.

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P433 INTRODUCTION OF A NEW GUIDELINE FOR ORTHOPAEDIC SURGEONS AFTER PATIENTS SUFFERS FRACTURE FROM LOW-ENERGY TRAUMA

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P434 PERFORMANCE OF THE LUNAR IDXA IMAGING DENSITOMETER IN NORMAL AND OBESE SUBJECTS

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P435 EFFECTS OF RALOXIFENE WITH FLUORIDE ON SPINAL BMD IN KOREAN POSTMENOPAUSAL WOMEN.

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1Family Medicine, Sungkyunkwan University, Samsung Cheil Hospital, Seoul, 2Family Medicine, Kunyang University, Daejeon, 3Family Medicine, Ajou University, Suwon, South Korea
P436 CHANGES OF BMD AFTER 1-YEAR TREATMENT WITH RISEDRONATE COMPARED WITH RALOXIFENE IN KOREAN POSTMENOPAUSAL WOMEN  
H. Oh*, K. Kim†, K. Cho‡, H. Lee§, S. Lee⁴  
¹Family Medicine, Sungkyunkwan University, Samsung Cheil Hospital, ²Family Medicine, Catholic University, ³Family Medicine, National Health Insurance Hospital, ⁴Family Medicine, Ewha University, ⁵Family Medicine, Ewha university, Seoul, South Korea

P437 SUPERIORITY OF A COMBINED TREATMENT OF ALFACALCIDOL AND ALENDRONATE COMPARED TO THE MONOTHERAPIES IN POSTMENOPAUSAL OSTEOPOROSIS  
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P438 IMPROVING COMPLIANCE AND PERSISTENCE WITH DRUG THERAPIES FOR OSTEOPOROSIS  
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¹Orthopedics, Mitsubishi Heavy Industries Okurayama Hospital, Yokohama, ²Orthopedics, Nippon Medical School, Tokyo, Japan

P439 THE BISPHOSPHONATE TREATMENT CARE GAP IN COMMUNITY DWELLING MEN AND WOMEN WHO HAVE INCIDENT FRAGILITY FRACTURES: THE CANADIAN MULTICENTRE OSTEOPOROSIS STUDY (Camos)  
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P440  CORRELATIONS BETWEEN STATIC TRABECULAR PARAMETERS MEASURED BY QUANTITATIVE COMPUTER TOMOGRAPHY OR HISTOMORPHOMETRY IN POSTMENOPAUSAL WOMEN WITH OSTEOPOROSIS


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P441  LONGITUDINAL CHANGES IN QUANTITATIVE ULTRASOUND IN POSTMENOPAUSAL HEALTHY WOMEN

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P442  COMPARISON OF DIGITAL X-RAY RADIOGRAMMETRY (DXR) AND DUAL-ENERGY X-RAY ABSORPTIOMETRY (DXA) FOR QUANTIFICATION BONE MINERAL DENSITY IN RHEUMATOID ARTHRITIS (RA)


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P443  QUANTIFICATION OF JUXTA-ARTICULAR DEMINERALIZATION IN RHEUMATOID ARTHRITIS BY DIGITAL X-RAY RADIOGRAMMETRY AND PERIPHERAL QUANTITATIVE COMPUTED TOMOGRAPHY


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P444  EVALUATION OF DISEASE ACTIVITY DEPENDENT CORTICAL BONE LOSS IN RHEUMATOID ARTHRITIS


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P445 PRECISION OF DIGITAL X-RAY RADIOGRAMMETRY (DXR)
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P446 INITIAL RESULTS OF REPRODUCIBILITY FOR DUAL X-RAY AND LASER (DXL)
1Friedrich-Schiller-University Jena, Institute of Diagnostic and Interventional Radiology, 2Friedrich-Schiller-University Jena, Friedrich-Schiller-University Jena, 3Friedrich-Schiller-University Jena, Clinic of Internal Medicine III, Jena, 4Sued-Harz Klinikum, Department of Radiology, Nordhausen, Germany

P447 EVALUATION OF IMAGE CAPTURING PARAMETERS ON PRECISION OF DIGITAL X-RAY RADIOGRAMMETRY (DXR)
1Friedrich-Schiller-University Jena, Institute of Diagnostic and Interventional Radiology, Friedrich-Schiller-University Jena, Clinic of Internal Medicine III, Jena, 4Sued-Harz Klinikum, Department of Radiology, Nordhausen, Germany

P448 REPRODUCIBILITY OF EXA-3000 AS A NEW DUAL ENERGY X-RAY ABSORPTIOMETRY DEVICE FOR MEASUREMENT BONE MINERAL DENSITY ON RADIUS AND CALCANEUS
1Friedrich-Schiller-University Jena, Institute of Diagnostic and Interventional Radiology, Friedrich-Schiller-University Jena, Clinic of Internal Medicine III, Jena, 4Sued-Harz Klinikum, Department of Radiology, Nordhausen, Germany

P449 REPRODUCIBILITY OF MULTI-SITE QUANTITATIVE ULTRASOUND FOR HEALTHY INDIVIDUALS AND PATIENTS SUFFERING FROM RHEUMATOID ARTHRITIS
1Friedrich-Schiller-University, Institute of Diagnostic and Interventional Radiology, 2Friedrich-Schiller-University, Clinic of Internal Medicine III, Jena, 4Sued-Harz Klinikum, Department of Radiology, Nordhausen, Germany
P450 DIGITAL X-RAY RADIOGRAMMETRY - IMPLEMENTATION OF CORRECTION FACTORS OF CORTICAL THICKNESS, METACARPAL INDEX AND BONE MINERAL DENSITY
1Friedrich-Schiller-University Jena, Institute of Diagnostic and Interventional Radiology, 2Friedrich-Schiller-University Jena, Clinic of Internal Medicine III, Jena, *Sued-Harz Klinikum, Department of Radiology, Nordhausen, 3Friedrich-Schiller-University Jena, Institute of Anatomy I, Jena, Germany

P451 VERTEBROPLASTY AND KYPHOPLASTY IN OSTEOPOROTIC FRACTURES OF VERTEBRAL BODIES
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P452 RALOXIFENE EFFECTS ON BONE MARKERS, BONE MINERAL DENSITY, LIPID PROFILE AND BODY COMPOSITION IN POSTMENOPAUSAL WOMEN
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P453 BONE LOSS IN WOMEN OF DIFFERENT AGE WITH RHEUMATOID ARTHRITIS
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P454 ORAL IBANDRONATE REDUCES ACTIVATION FREQUENCY TO HEALTHY PREMENOPAUSAL LEVELS IN WOMEN WITH POSTMENOPAUSAL OSTEOPOROSIS
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P455 INTERMITTENT INTRAVENOUS IBANDRONATE INJECTIONS HAVE A SIMILAR BONE SAFETY PROFILE TO DAILY ORAL DOSING
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P456 THE VIENNA TERIPARATIDE DATABASE
H. Resch*, C. Muschitz, J. Patsch, N. Pascher, E. Edlmayr, T. Woegerbauer
1Medical Department II, St. Vincent Hospital, Vienna, Austria
P457 THERAPEUTIC EFFICACY OF RISEDRONATE IN MEN WITH OSTEOPOROSIS - CONSISTENT 61% RISK REDUCTION OF NEW VERTEBRAL FRACTURES AFTER THE FIRST AND SECOND YEAR OF RISEDRONATE THERAPY

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P458 IDENTIFYING NON-RESPONDERS TO RISEDRONATE OR ALENDRONATE IN THE FOSAMAX® ACTONEL® COMPARISON TRIAL (FACT)

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P459 COMPARISON OF THE STATINE EFFECTS ON BONE MINERAL DENSITY AND BONE METABOLISM WITH CALCIUM AND VITAMIN D EFFECTS IN POSTMENOPAUSAL WOMEN WITH OSTEOPENIA


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P460 CHANGE IN BONE MASS DUE TO HYPERTHYROIDISM

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P461 ADHERENCE TO TREATMENT AND CHANGES IN VITAMIN D STATUS IN HIP FRACTURE PATIENTS - PARTICIPANTS OF POST-SURGICAL TREATMENT PROGRAM

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P462 CHARACTERISTICS OF THE DIABETIC PATIENTS WITH HIP FRACTURES

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P463 IMPROVING THE MANAGEMENT OF PATIENTS WITH OSTEOPOROTIC FRACTURES: THE OMEN PROJECT

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P464 PATIENTS’ PERCEPTION OF IMPORTANCE OF DIFFERENT ATTRIBUTES OF OSTEOPOROSIS MEDICATION: RESULTS FROM THE PREFER-INTERNATIONAL STUDY

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P465 EVALUATION OF PATIENTS’ PREFERENCE FOR OSTEOPOROSIS MEDICATIONS: PREFER-INTERNATIONAL

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P466 COST-EFFECTIVENESS OF FOSAVANCE® IN THE TREATMENT AND PREVENTATION OF OSTEOPOROSIS IN THE UNITED KINGDOM AND THE NETHERLANDS

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P467 ASSOCIATIONS BETWEEN BONE MINERAL DENSITY USING DUAL ENERGY X-RAY ABSORPTIOMETRY AND BONE STRENGTH PROPERTIES USING PERIPHERAL QUANTITATIVE COMPUTED TOMOGRAPHY

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P468 PARKINSON’S DISEASE AND OSTEOPOROSIS

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P469 EFFECT OF STATINS ON BONE MINERAL DENSITY IN POSTMENOPAUSAL WOMEN

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P470 CONSISTENT EFFICACY WITH INTERMITTENT INTRAVENOUS IBANDRONATE INJECTIONS IN POSTMENOPAUSAL OSTEOPOROSIS: DIVA 2-YEAR ANALYSIS

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P471 ONCE-MONTHLY IBANDRONATE DOSING IS MORE EFFECTIVE THAN DAILY DOSING FOR IMPROVING BONE MINERAL DENSITY: MOBILE 2-YEAR ANALYSIS

M. Stone*, J. Hensen, J. A. Stakkestad, C. Hughes, N. Mairon, K. Coutant, C. Christiansen

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P472 ESTIMATING STRUCTURAL PROPERTIES OF TRABECULAR BONE FROM GRAY-LEVEL LOW-RESOLUTION IMAGES

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P473 DETERMINING OPTIMAL CUT OF TRABECULAR BONE

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P474 URINARY OSTEOCALCIN AND OTHER MARKERS OF BONE METABOLISM: EFFECT OF RISEDRONATE THERAPY

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P475 A MONTHLY DOSING REGIMEN OF RISEDRONATE REDUCES BONE TURNOVER SIMILAR TO DAILY ADMINISTRATION


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P476 RISEDRONATE PHARMACOKINETICS FOLLOWING DAILY AND MONTHLY DOSING REGIMENS


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P477 RISEDRONATE 5 MG DAILY FOR TWO YEARS PREVENTS BONE LOSS IN LATE POSTMENOPAUSAL WOMEN WITH OSTEOPENIA


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P478 PROPHYLACTIC SODIUM FLUORIDE PREVENTS OSTEOPOROSIS IN OSTEOPENIC PATIENTS
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P479 EFFICACY OF GASTROINTESTINALLY APPLIED BMP-6 IN NEWBORN AND AGED OVARIECTOMIZED RATS
P. Simic*, B. Macek¹, H. Oppermann¹, S. Vukicevic¹
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P480 IMPROVED PATIENT EDUCATION AND SUPPORT MAY ENHANCE ADHERENCE TO BISPHOSPHONATE THERAPY
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P481 ALENDRONATE IMPROVES THE STRUCTURAL GEOMETRY OF THE PROXIMAL FEMUR IN POSTMENOPAUSAL OSTEOPOROTIC WOMEN
T. J. Beck¹*, J. A. Cauley¹, A. E. De Papp², L. E. Wehren³, D. T. Baran³
¹Johns Hopkins Medical Institutions, Baltimore, MD, ²University of Pittsburgh, Pittsburgh, PA, ³Merck Research Laboratories, Horsham, PA, ⁴Medical Communications, Merck Research Laboratories, Rahway, NJ, ⁵Merck Research Laboratories, Upper Gwynned, PA, United States

P482 EFFECT OF ONCE-WEEKLY ALENDRONATE 70 MG AND VITAMIN D3 2800 IU ON FRACTIONAL CALCIUM ABSORPTION IN POSTMENOPAUSAL OSTEOPOROTIC WOMEN: A 4-WEEK, DOUBLE-BLIND, RANDOMIZED, CONTROLLED MULTI-CENTER CLINICAL TRIAL
R. Robson¹*, D. Kendler¹, M. Handel¹, S. Shapses¹, Z. Yang¹, T. Wilson¹, M. Liu¹, A. Mantz³, L. E. Wehren³, A. Santora²
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P483 METHODOLOGY FOR DETERMINATION OF FRACTIONAL CALCIUM ABSORPTION
R. Sherrell¹*, P. Field¹, S. Shapses¹, R. Robson¹, M. Liu¹, W. Bayne¹, E. Woolf³, L. E. Wehren³, A. Santora²
¹Rutgers University, New Brunswick, NJ, United States, ²Christchurch Clinical Trials, Christchurch, New Zealand, ³Medical Communications, Merck Research Laboratories, Rahway, NJ, United States
P484  WEEK-BY-WEEK EFFECTS OF MONTHLY IBANDRONATE ON BIOCHEMICAL MARKERS OF BONE RESORPTION: RESULTS OF A 3-MONTH RANDOMIZED TRIAL
P. Geusens*, J. Walliser*, R. Rovayo*, A. W. C. Kung*, N. Verbruggen†, M. Shivaprakash†, L. E. Wehren†, M. E. Melton‡
† Université Libre de Bruxelles, Bruxelles, Belgium, ‡ Hospital Angeles del Pedregal, Padierna, Mexico, § Central University of Ecuador, Eloy Alfaro, Ecuador, ¶ Queen Mary Hospital, Hong Kong, China, ¶ Merck Research Laboratories, Brussels, Belgium, § Merck Research Laboratories, Whitehouse Station, NJ, ¶ Medical Communications, Merck Research Laboratories, Rahway, NJ, United States

P485  REVIEW OF ALENDRONATE EFFECTS ON HISTOMORPHOMETRIC PARAMETERS: NO EVIDENCE FOR OVER-SUPPRESSION OF TURNOVER
R. R. Recker*, L. E. Wehren, D. B. Kimmel
†Osteoporosis Research Center, Creighton University, Omaha, NB, ¶Medical Communications, Merck Research Laboratories, Rahway, NJ, ¶Merck Research Laboratories, West Point, PA, United States

P486  THRESHOLD RESPONSE OF SERUM CTX TO MONTHLY ORAL IBANDRONATE THROUGHOUT DOSING INTERVAL: RESULTS OF A 3-MONTH RANDOMIZED TRIAL
P. Geusens*, J. Walliser*, R. Rovayo*, A. W. C. Kung*, M. Shivaprakash†, N. Verbruggen†, L. E. Wehren†, M. E. Melton‡
† Université Libre de Bruxelles, Bruxelles, Belgium, ‡ Hospital Angeles del Pedregal, Padierna, Mexico, § Central University of Ecuador, Eloy Alfaro, Ecuador, ¶ Queen Mary Hospital, Hong Kong, China, ¶ Merck Research Laboratories, Whitehouse Station, NJ, United States, § Merck Research Laboratories, Brussels, Belgium, ¶ Medical Communications, Merck Research Laboratories, Rahway, NJ, United States

P487  CONSTRUCTION AND MATERIAL PROPERTIES OF THE BONE
J. Wendlova*
†Osteological unit, University Hospital and Polyclinic, Bratislava, Slovakia

P488  BONE DISTRIBUTION IN THE CROSS SECTIONS THROUGHOUT THE FEMORAL NECK AND INTERTROCHANTERIC REGIONS: A STUDY USING CLINICAL QCT
I. Maric*, R. Eastell†, L. Yang‡
†Department of Anatomy, University of Rijeka, Rijeka, Croatia, ‡Division of Clinical Sciences, University of Sheffield, Sheffield, United Kingdom

P489  A DXA-BASED COMPOSITE BEAM MODEL OF THE PROXIMAL FEMUR FOR STRESS ESTIMATION
L. Yang*, E. V. McCloskey†, R. Eastell‡
†Division of Clinical Sciences, University of Sheffield, Sheffield, United Kingdom

P490  BALLOON KYPHOPLASTY FOR OSTEOPOROTIC VERTEBRAL COMPRESSION FRACTURES - LONDON EXPERIENCE
J. S. Yeh*, S. Karanth†, H. Ellamushi‡, C. Thakkar*, F. Afshar†
†Neurosurgery, ¶Neuroradiology, Barts and The London NHS Trust, London, United Kingdom
MEET THE PROFESSOR SESSIONS

Numbers limited. Entry is by ticket only, to be collected on a first-come first-served basis from the registration desk on the day of the session. Boxed lunches may be collected for consumption during the sessions.

Club Room A  
**SEX HORMONES AND THE SKELETON**  
Sundeep Khosla (Rochester, USA)

Club Room B  
**INFLAMMATORY BONE LOSS**  
Nathalie Franchimont (Lucerne, Switzerland)

Club Room C  
**BONE MORPHOGENETIC PROTEINS (BMPS)**  
Slobodan Vukicevic (Zagreb, Croatia)

Club Room D  
**STEM CELL THERAPY AND BONE**  
Moustapha Kassem (Odense, Denmark)

Club Room H  
**BONE AND CANCER**  
Teresa Guise (Charlottesville, USA)

SYMPOSIUM 6
Matrix Disorders

_Chairs:_  
Peter Lakatos (Budapest, Hungary)  
André Uitterlinden (Rotterdam, Netherlands)

14:00  I030  
**THE BIOLOGICAL BASIS FOR DISORDERS OF BONE MATRIX**  
P. G. Robey*1  
1CSDB, NIDCR, NIH, DHHS, Bethesda, United States

14:30  I031  
**NEW BIOCHEMICAL MARKERS OF BONE AND CARTILAGE**  
P. Garnero*1  
*Molecular Markers, Synarc, Lyon, France

ORAL COMMUNICATIONS 7
Genetics

_Chairs:_  
Peter Lakatos (Budapest, Hungary)  
André Uitterlinden (Rotterdam, Netherlands)

15:00  OC031  
**NO ASSOCIATION BETWEEN TGF BETA 1 ALLELES AND BONE DENSITY IN A LARGE POPULATION OF BRITISH WOMEN**  
F. E. A. McGuigan*, A. Bassiti*, H. M. Macdonald*, R. Farmer†, S. Bear†, A. Stewart†, F. Walsh†, A. Black*, D. M. Reid*, S. H. Ralston†
15:12 OC032 SERUM OPG LEVELS ARE CORRELATED POSITIVELY WITH BONE STRENGTH AND INVERSELY WITH BONE TURNOVER IN MATURE OPG TRANSGENIC RATS


*Metabolic Disorders, Laboratory Animal Research, Amgen Inc., Thousand Oaks, United States

15:24 OC033 DIFFERENTIAL GENE EXPRESSION IN THE PAGETIC OSTEOBLAST


*Medicine, Statistics, Surgery, University of Auckland, Auckland, New Zealand

15:36 OC034 THE SER37ALA POLYMORPHISM IN THE BONE MORPHOGENETIC PROTEIN 2 IS ASSOCIATED WITH FRACTURE RISK IN SCOTTISH WOMEN

O. M. E. Albagha*, A. Alhejaily, A. Qureshi, D. M. Reid, S. H. Ralston

*Medical and Therapeutics, University of Aberdeen, Aberdeen, United Kingdom

15:48 OC035 TWO POLYMORPHISMS IN THE GENE ENCODING THE LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN-5 (LRP5) ARE ASSOCIATED WITH PEAK BONE MASS MAINLY IN NON-SEDENTARY MEN OF THE ODENSE ANDROGEN STUDY


*Endocrinology, Odense University Hospital, Odense, Denmark, Department of Medical Genetics, University and University Hospital Antwerp, Antwerp, Belgium, Clinical Biochemistry, University and University Hospital Antwerp, Odense, Internal Medicine, Roskilde County Hospital KoegeRoskilde County Hospital Koege, Koege, Denmark

16:00 - 16:30

COFFEE BREAK
16:30 - 17:30  
**PANORAMA HALL - FIRST FLOOR**

**CLINICAL CASES**

**Chairs:**  
David Hosking (Nottingham, UK)  
Roger Smith (Oxford, UK)

16:30  
**CC001**  
**MUTATIONS IN OSTM1 DEFINE A SEVERE FORM OF AUTOSOMAL RECESSIVE OSTEOPETROSIS WITH NEURAL INVOLVEMENT**  
1Human Genome, Istituto Tecnologie Biomediche - CNR, Segrate,  
2Department of Pathology I, University of Brescia, Brescia, 3Unit of Rare Diseases, Gaslini Institute, Genova, Italy, 4Unit de Genetique Medicale, Campus des Sciences Medicales, Beyrouth, Lebanon,  
5Laboratoire d’Immunogenetique Moleculaire, Universite Montpellier II, Montpellier, France, 6Children’s BMT Unit, Newcastle General Hospital, 7Unit of Rare Diseases, University of Brescia, Newcastle upon Tyne, United Kingdom

16:45  
**CC002**  
**LIPOSCLEROSING MYXOFIBROUS TUMOR OF BONE. A MIME OF PROXIMAL FEMUR MONOSTOTIC FIBROUS DYSPLASIA.**  
A. Corsi*, F. De Maio*, E. Ippolito*, M. Riminucci*, P. Bianco*  
1Department of Experimental Medicine and Pathology, University La Sapienza, 2Department of Orthopaedic Surgery, University of Tor Vergata, Rome, 3Department of Experimental Medicine, University of L’Aquila, L’Aquila, Italy

17:00  
**CC003**  
**FIBRODYSPLASIA OSSIFICANS PROGRESSIVA: REPORT OF A FAMILY**  
M. Dumic†, T. Matic†, Z. Bilinovac†, K. Potocki†  
1Department of Pediatrics, University Hospital Rebro, Zagreb, Croatia

17:15  
**CC004**  
**CIANALCET AND HYPOCALCIURIC HYPERCALCEMIA WITH RECURRENT PanCREATITIS**  
P. Filipponi*, S. Cristallini*, G. Policani*, A. Nicași†  
1ASL1 Umbertide Hospital, Centre for Osteoporosis and Metabolic Bone Diseases, Umbertide, Italy

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16:30 - 17:30  
**CONGRESS HALL - SECOND FLOOR**

**SHORT ORAL COMMUNICATIONS 2**

**Chairs:**  
Pam Robey (Bethesda, USA)  
Agu Tamm (Tartu, Estonia)

16:30  
**P011**  
**SKELETAL STEM CELLS AND HEMATOPOIESIS: A STEM CELL-MAINTAINED STEM CELL NICHE**  
A. Funari*, B. Sacchetti*, S. Michienzi*, M. Riminucci*, P. Bianco*  
1Department of Experimental Medicine, University of L'Aquila, L'Aquila, 2Department of Experimental Medicine and Pathology, University La Sapienza, Rome, Italy
EVIDENCE THAT ACTIVATION OF THE CANONICAL WNT SIGNALLING PATHWAY MAY HAVE DIRECT EFFECTS ON OSTEOCLASTS FROM REGENERATING BONE

T. A. Althnaian*, M. Muzybak, J. G. Mount, H. L. Jessop, J. S. Price

*Veterinary Basic Sciences, The Royal Veterinary College, London, United Kingdom

INCREASED BONE FORMATION IN TRANSGENIC MICE EXPRESSING THE TRANSCRIPTION FACTOR FRA-2: IDENTIFICATION OF TARGET GENES USING TRANSCRIPTOME ANALYSIS


*Institute of Molecular Pathology, Wien, Austria, Prostrakan, Romainville, France, Department of Trauma, University School of Medicine, Hamburg, Germany

TRABECULAR BONE OF MALE MICE IS NOT RESPONSIVE TO MECHANICAL LOADING


*Veterinary Basic Science, Royal Veterinary College, London, United Kingdom, Institute of Anatomy, Ludwig-Maximilians Universitat, Munich, Germany

PTH A MEDIATOR OF BONE ANABOLIC EFFECT OF PAMIDRONATE IN ADULT RATS FED A LOW PROTEIN DIET

P. Ammann*, R. Dayer, R. Rizzoli

*Division of Bone Diseases, Department of Rehabilitation and Geriatrics, Geneva, Switzerland

DELIVERY OF COMMITTED HUMAN OSTEOCLAST PRECURSORS INTO THE BONE MARROW OF NEWBORN MOUSE MODELS OF AUTOSOMAL RECESSIVE OSTEOPETROSIS


*Medicina Pediatrica, Ospedale Pediatrico Bambino Gesù, Roma, Medica Sperimentale, Università De L’Aquila, L’Aquila, Italy, Istologia e Embriologia Medica, Università di Roma “La Sapienza”, Roma

ROLE OF DLK1 (EGF-LIKE HOMEOPTIC PROTEIN) IN BONE MARROW MICROENVIRONMENT: THE IMMUNOMODULATORY EFFECT OF DLK1 ON HUMAN MESENCHYMAL STEM CELLS

B. M. Abdallah*, P. Boissy, Q. Tan, J. Dahlgaard, G. A. Traustadottir, J. Delaisse, M. Kassem

*Endocrinology and Metabolism dept, Odense University Hospital, Odense C, Clinical Research Unit and Division of Hematology, Vejle Hospital, Vejle, Clinical Biochemistry and Genetics, Odense University Hospital, Odense C, Denmark
17:05 P018 CHARACTERIZATION OF AGE-DEPENDENT OSTEOPOROSIS IN STEM CELL ANTIGEN-1 NULL MICE
T. S. Khan*, C. Holmes†, M. D. Grynpas‡, W. L. Stanford*  
1Institute of Biomaterials and Biomedical Engineering, University of Toronto, 2Samuel Lunenfeld Research Institute, Mount Sinai Hospital,  
Toronto, Canada

17:10 P019 THE CYSTEINE-RICH PROTEIN CYR61 IS A NOVEL INHIBITOR OF OSTEOCLAST DIFFERENTIATION
M. J. Rogers*, J. C. Crockett†, D. Tosh†, A. Duthie†, F. Jakob‡, N. Schuetze‡  
1Bone Research Group, Institute of Medical Sciences, Aberdeen, United Kingdom, 2Orthopedic Center for Musculoskeletal Research, University of Wuerzburg, Wuerzburg, Germany

17:15 P020 MICROGRAVITY STIMULATES OSTEOCLASTOGENESIS AND BONE RESORPTION BY INCREASING RANKL/OPG RATIO IN OSTEOBLAST PRIMARY CULTURES
A. Rufo*, A. Teti†, N. Rucci†  
1Department of Experimental Medicine, University of L'Aquila, L'Aquila, Italy

17:30 - 18:00 RECEPTION  
SUPPORTED BY NYCOMED

18:00 - 19:30 CONGRESS HALL - SECOND FLOOR  
SATELLITE SYMPOSIUM 6  
The Emerging Face of Severe Osteoporosis: Identification and Treatment of Patients at High Risk of Fracture  
SUPPORTED BY NYCOMED

Chair: Ego Seeman (Melbourne, Australia)  
IDENTIFYING THE HIGH RISK PATIENT  
David Hosking (Nottingham, UK)  
MAINTAINING AND RESTORING BONE STRENGTH  
Steven Boonen (Leuven, Belgium)  
RECONSTRUCTING THE BONE IN HIGH RISK PATIENTS  
Dennis Black (San Francisco, USA)

20:30 CONFERENCE PARTY  
Please see page 202
SUNDAY 14 MAY 2006

REGISTRATION OPEN

08.00 - 08.30
POSTERS
EXHIBITION AND POSTER HALL

08.30 - 09.00
Symposium 7:
Can we afford to treat osteoporosis?
CONGRESS HALL

09.00 - 10.00
COFFEE

10.00 - 10.30
Hot Topics
CONGRESS HALL

10.30 - 11.00
Closing Ceremony
CONGRESS HALL

11.00 - 11.30

11.30 - 12.00

12.00 -

12.30 - 14.00

14.00 -

14.30 - 15.00

15.00 -

15.30 -

16.00 -

16.30 -

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18.00 -

18.30 -

19.00 -

19.30 -

20.00 -

20.30 -

21.00 -

Satellite Conference:
Anabonos/Osteogene
CLUB A
08:00 - 08:30

POSTER VIEWING

08:30 - 09:30

CONGRESS HALL - SECOND FLOOR

SYMPOSIUM 7
Can we Afford to Treat Osteoporosis?

Chairs: Richard Eastell (Sheffield, UK) Gyula Poór (Budapest, Hungary)

08:30 I032 CAN WE AFFORD TO TREAT OSTEOPOROSIS?
D. J. Torgerson*1
1York Trials Unit, Dept of Health Sciences, University of York, York, United Kingdom

09:00 I033 HEALTH ECONOMICS - CLINICIAN’S RESPONSE
C. Cooper*1
1MRC Epidemiology Resource Centre, University of Southampton, Southampton, United Kingdom

09:30 - 10:00

COFFEE BREAK

10:00 - 11:30

CONGRESS HALL - SECOND FLOOR

HOT TOPICS

Chairs: Richard Eastell (Sheffield, UK) Gyula Poór (Budapest, Hungary)

10:00 OC036 OSTEOPOROSIS IS RELATED TO WHITE CELL TELOMERE LENGTH AND INCREASED BIOLOGICAL AGING
T. D. Spector*1, A. Valdes1, F. Williams1, A. Aviv2
1Twin Research Unit, St Thomas Hospital, London, United Kingdom, 2Hypertension Research Center, New Jersey Medical School, Newark, United States

10:12 OC037 APC-MEDIATED BETA-CATENIN DEGRADATION IS ESSENTIAL FOR CHONDROCYTE FORMATION FROM MESENCHYMAL PRECURSORS
R. L. Miclea*1, E. C. Robanus-Maandag1, C. A. J. Bosch1, T. Kobayashi1, H. M. Kronenberg1, J. Hoogendam1, C. W. G. Löwik1, J. M. Wit1, R. Fodde2, M. Karperien2
1Pediatrics, 1Human and Clinical Genetics, Leiden University Medical Centre, Leiden, Netherlands, 1Endocrine Unit, Massachusetts General Hospital and Harvard Medical School, Boston, United States, 1Endocrinology and Metabolic Diseases, Leiden University Medical Centre, Leiden, 1Pathology, Josephine Nefkens Institute, Erasmus Medical Centre, Rotterdam, 1Pediatrics and Endocrinology and Metabolic Diseases, Leiden University Medical Centre, Leiden, Netherlands
THYROID STIMULATING HORMONE (TSH) MAY SERVE AS A NOVEL BONE ANABOLIC AGENT FOR POSTMENAPAUSAL OSTEOPOROSIS


*Genzyme Discovery, Genzyme Corporation, Framingham, United States, 1Department of Anatomy, School of Medicine, 2Department of Internal Medicine, University Clinical Hospital Centre, Zagreb, Croatia

TRANSFER AND SILENCING OF A DISEASE GENE (R201C-GNAS) IN HUMAN SKELETAL STEM CELLS (SSCS)


Department of Genetics and Molecular Biology, 2Department of Experimental Medicine and Pathology, University of Rome La Sapienza, Rome, 3Department of Experimental Medicine, University of L’Aquila, L’Aquila, Italy

CAPSAICIN IS A POTENT ACTIVATOR OF HUMAN OSTEOCLASTS


Anatomy and Developmental Biology, University College London, London, United Kingdom

COMPARISON OF TERIPARATIDE AND ALENDRONATE ON VERTEBRAL STRENGTH AS ASSESSED BY BIOMECHANICAL COMPUTED TOMOGRAPHY


1University of California and O.N. Diagnostics, Berkeley, 2Eli Lilly and Company, Indianapolis, 3O.N. Diagnostics, Berkeley, United States

BONE STRONTIUM DISTRIBUTION AND DEGREE OF MINERALIZATION OF BONE AFTER 2 AND 3 YEARS OF TREATMENT WITH STRONTIUM RANELATE IN POSTMENOPAUSAL OSTEOPOROTIC WOMEN.

G. Boivin*, D. Farlay, C. Simi, P. J. Meunier

INSERM Unité 403, Faculté de Médecine R. Laennec, Lyon, France

11:30 - 12:00 CONGRESS HALL - SECOND FLOOR

CLOSING CEREMONY AND YOUNG INVESTIGATOR AWARDS

Chair: ECTS Secretary: Hans van Leeuwen (Rotterdam, Netherlands)

12:00 BUSES TO AIRPORT
SATELLITE CONFERENCE
Anabolic pathways into bone: recent discoveries from the ANABONOS and OSTEOGENE European Consortia

Registration fee for this session is 35 Euros, to include lunch. Please book at the registration desk by 16.00 on Saturday if you wish to attend.

Please see back of abstract book for abstracts.

12:00 Lunch
Chairs: Roland Baron (New Haven, USA)
Jan Stepan (Prague, Czech Republic)

12:30 WELCOME
Stuart Ralston (Edinburgh, UK)

12:35 INTRODUCTION TO OSTEOGENE
Kaare Gautvik (Oslo, Norway)

12:40 INTRODUCTION TO ANABONOS
Stuart Ralston (Edinburgh, UK)

12:45 SC01 GENE EXPRESSION PROFILING OF HUMAN OSTEOSPOROSIS; INITIAL IDENTIFICATION AND FUNCTIONAL CHARACTERIZATION OF DIFFERENTIALLY EXPRESSED GENES AS POSSIBLE REGULATORS OF BONE HOMEOSTASIS
Rune Jemtland (Oslo, Norway)

13:15 SC02 NFAT AND SRF TRANSCRIPTION FACTORS COOPERATE TO REGULATE KROX20 GENE EXPRESSION IN BONE
Monique Frain (Paris, France)

13:35 SC03 ISOLATION AND CHARACTERIZATION OF THE AGA2 MOUSE: A NEW MURINE MODEL FOR OSTEOGENESIS IMPERFECTA
Thomas Lisse (Neuherberg, Germany)

13:55 SC04 GENETIC DETERMINANTS OF OSTEOPOROSIS IN MEN
Harish Datta (Newcastle-upon-Tyne, UK)

14:25 SC05 20 NOVEL SKELETOGENESIS-RELATED GENES DETECTED BY COMPREHENSIVE ANALYSIS OF A RUNX2-/- MOUSE MODEL
Uwe Kornak (Berlin, Germany)

14:45 Close