

**Scientific Program of the
5th International Workshop of the International Society of
Musculoskeletal and Neuronal Interactions - ISMNI
combined with the
11th International Seminar of the
Hellenic Foundation of Osteoporosis - HELIOS
September 28th - 1st October, 2006, Porto Heli, Argolis, Greece
Program Chairmen: J.A. Gasser, G.P. Lyritis**

DAY 1. THURSDAY, SEPTEMBER 28th, 2006

ISMNI Session 1

- 08.30 - 09.30 **Oral presentations: Rheumatic diseases**
Chairs: D. Ioakimidis - A. Eliopoulos
- 08.30 - 08.45 Bone markers in patients with rheumatoid arthritis and osteoarthritis
N. Prodanovic, B. Bozic, I. Zragic
- 08.45 - 09.00 Correlation of radial pQCT with femoral DEXA measurements in rheumatoid arthritis patients
S. Psarelis, S. Gazi, P. Raptou, G. Trovas, I. Dontas, P. Papagelopoulos, G.P. Lyritis
- 09.00 - 09.15 Therapeutic efficacy of risedronate in men with rheumatoid arthritis. A 2-year control study
A. Zacharioudaki, D. Drigiannakis, K. Makris, I. Zeinaki, E. Raptakis
- 09.15 - 09.30 Higher prevalence of decreased bone mass in schizophrenic patients
J. Mencil, H-L.U. Heresco-Levy, Y. Gelfin, A. Vass
- 09.30 - 10.00 Lecture
Chair: P. Raptou
Densitometric analyses of musculoskeletal interactions in humans
J.L. Ferretti

ISMNI Session 2

- 10.00 - 11.00 **Oral presentations: Osteogenesis imperfecta and other inherited bone diseases**
Chairs: E. Schönau - I. Paspati
- 10.00 - 10.15 Estimation from early changes of serum procollagen type I aminoterminal propeptide of the lumbar BMD gain after 2 years in children suffering from severe osteogenesis imperfecta
J-P. Devogelaer, G. Depresseux
- 10.15 - 10.30 Bone in bone image after treatment with intravenous infusions of disodium pamidronate in twin children suffering from osteogenesis imperfecta
J-P. Devogelaer, F. Lecouvet, G. Depresseux
- 10.30 - 10.45 Are there any changes in bone mineral density in patients with hyperlipidemia treated with statins?
A. Zacharioudaki, D. Drigiannakis, I. Zeinaki, E. Raptakis

- 10.45 - 11.00 Body composition in spinal cord injured patients
Y. Dionyssiotis, O. Lazoura, G. Trovas, A. Galanos, P. Papagelopoulos, N. Papaioannou, P. Papadaki, K. Petropoulou, G.P. Lyritis
- 11.00 - 11.30 Lecture
Chair: I. Dontas
Minimodeling - a neglected bone biologic mechanism?
W.S.S. Jee
- 11.30 - 12.00 Coffee break
- 12.00 - 12.30 Lecture
Chair: N. Tsakalagos
Coupled or uncoupled remodeling, is that the question?
J.A. Gasser

ISMNI Session 3

- 12.30 - 13.30 **Oral presentations:
Molecular basis of bone biology**
Chairs: C.E. Sekeris - P. Moutsatsou
- 12.30 - 12.45 Bone structure changes induced by mechanical and biological agents
F. Marsik, I. Marik, V. Klika
- 12.45 - 13.00 Glucocorticoids regulate the mGluR5, EAAT1 and GS expression in MG-63 osteoblast-like human osteosarcoma cells
N. Kalariti, E. Papageorgiou, P. Lembessis, M. Koutsilieris
- 13.00 - 13.15 The differential expression of OPG and RANKL in a co-culture system containing PC-3 prostate cancer cells and MG-63 osteoblast-like cell
H. Katopodis, R. Tenta, C. Doillon, A. Halapas, M. Koutsilieris
- 13.15 - 13.30 Differential distribution of glucocorticoid and estrogen receptor isoforms: Localization of GRbeta and ERalpha in nucleoli and GRalpha and ERbeta in the mitochondria of human osteosarcoma SAOS-2 and hepatocarcinoma HEPG2 cell lines
S. Solakidi, A-M. Psarra, C.E. Sekeris
- 13.30 - 13.45 HCN channels regulate bone formation and resorption *in vitro* and *in vivo*
T. Notomi, T. Skerry
- 13.45 - 17.00 Lunch - Free time

HELIOS Session 1

- 17.00 - 18.00 **Hellenic Clinical Guidelines on the Medical Treatment of Osteoporosis**
Chair: G.P. Lyritis, S. Tournis, E. Papakitsou, A. Tsagari
- 19.00 - 20.30 **Satellite Symposium - Sponsored by MSD Alendronate plus Vitamin D: Benefits and advantages for the treatment of osteoporosis**
Chair: G. Kapetanios
- 19.00 - 19.25 Vitamin D: the importance and its contribution to bone health
K. Mavroudis
- 19.25 - 19.50 Efficacy first
A. Eliopoulos
- 19.50 - 20.15 Alendronate plus vitamin D: The superiority versus all the other bisphosphonates
S. Epstein
- 20.15 - 20.30 **Discussion**
- 20.30 - 21.00 **ISMNI General Assembly (first call)**
- 21.00 - 22.00 **Welcome reception**

DAY 2. FRIDAY, SEPTEMBER 29th, 2006

HELIOS Session 2

- 08.45 - 10.15 **Obesity, slim diets and musculoskeletal health**
Chairs: P. Burckhardt - C. Yiannakopoulos
- 08.45 - 09.05 Role of leptin in energy-deprivation states: normal human physiology and clinical implications for hypothalamic amenorrhoea and anorexia nervosa
K. Tsigos
- 09.05 - 09.25 Nutritional status and dietary patterns in disabled people
A. Tsagari
- 09.25 - 09.45 Changes in biochemical bone markers and BMD following a twelve - month dietary intervention program
Y. Manios
- 09.45 - 10.00 **Discussion**

ISMNI Session 4

- 10.00 - 10.30 **Oral presentations: Bone and muscle interactions**
Chairs: T. Karachalios - G. Trovas
- 10.00 - 10.15 Reposition of bone masses in the lateral direction at diaphyses as the biochemical response to excessive stress/strain states
M. Petrtyl, J. Danesova
- 10.15 - 10.30 Association between bone mineral density and muscle mass in postmenopausal women
D. Hadjidakis, A. Mylonakis, I. Androulakis, A. Papaefstathiou, S.A. Raptis
- 10.30 - 11.00 **Lecture**
Chair: G. Trovas
Mechanography - a new device for the assessment of muscle function in pediatrics
E. Schönau
- 11.00 - 11.30 **Coffee break**
- 11.30 - 12.00 **Lecture**
Chair: T. Karachalios
Combined treatments for osteoporosis or Fighting osteoporosis on two fronts
R. Rizzoli
- 12.00 - 12.30 **Lecture - Sponsored by Roche/GSK**
Chair: E. Papakitsou
Ibandronate in preclinical development, effects on bone mass, architecture and quality.
F. Bauss

HELIOS Session 3

- 12.30 - 14.00 **Vertebral fractures and quality of life**
Chairs: G. Kapetanios - C. Komisopoulos
- 12.30 - 12.50 Epidemiology of vertebral fractures: implications for vertebral augmentation
M. Potoupnis
- 12.50 - 13.10 Relationship of health related quality of life to prevalent and new or worsening back pain in postmenopausal women with osteoporosis
E. Bakas
- 13.10 - 13.30 Kyphoplasty in osteoporotic spine fractures: a quality of life assessment
P. Katonis
- 13.30 - 14.00 **Discussion**
- 14.00 - 18.00 **Lunch - Free time**
- 16.00 - 17.00 HELIOS General Assembly (first call)
- 17.00 - 18.00 ISMNI General Assembly (final call)
- 18.00 - 19.00 **Lectures**
Chair: W.S.S. Jee
- 18.00 - 18.30 Basic muscle function with a special emphasis on the effects of ageing
H. Degens
- 18.30 - 19.00 Can exercise prevent osteoporosis?
J. Rittweger

ISMNI Session 5

- 19.00 - 20.00 **Exercise and musculoskeletal interactions**
Chairs: J. Rittweger - B. Noble
- 19.00 - 19.15 Kinetic parameters in pre - and postmenopausal women
Y. Dionyssiotis, A. Galanos, Y. Katsanevakis, G.P. Lyritis
- 19.15 - 19.30 Markers of bone metabolism during endurance cycling exercise in male athletes: Acute effects of an oral calcium load
S. Guillemant, G. Peres, J. Guillemant
- 19.30 - 19.45 Quality of bone density - Acceleration of bone thickening
J. Danesova, M. Petrtyl
- 19.45 - 20.00 Male mice heterozygous for pH-Sensing Receptor OGR1 show a mild bone phenotype at skeletal maturity
J. Gasser
- 20.00 - 21.30 **Satellite Symposium - Sponsored by Nycomed**
Chair: G.P. Lyritis
- 20.00 - 20.30 Evaluation of risk factors for fracture - the high risk osteoporotic patient
T. Karachalios
- 20.30 - 21.00 How to retain and restore bone strength?
G. Kapetanios
- 21.00 - 21.30 A therapeutic approach to high risk for fracture osteoporotic patients with PTH
R. Rizzoli
- 21.30 - 23.00 **Opening Ceremony**

DAY 3. SATURDAY, SEPTEMBER 30th, 2006

ISMNI Session 6

- 08.30 - 09.30 **Oral Presentations: Osteoporosis.**
Chairs: C. Cosmidis - N. Tsakalakos
- 08.30 - 08.45 Safety and quality of life after 18 months of teriparatide treatment in osteoporotic patients with vertebral fractures
E. Raptakis, V. Lukas, E. Kataxaki, K. Skutaridis, T. Manos, A. Zacharioudaki

- 08.45 - 09.00 The prevalence of osteoporosis in the population of Tirana, Albania
D. Ruci, A. Priftanji, A. Tafaj, V. Ruci, D. Tole
- 09.00 - 09.15 Local anaesthesia balloon kyphoplasty in the treatment of osteoporotic vertebral fractures
V. Lykomitros, K. Anagnostidis, M. Potoupnis, G. Kapetanos
- 09.15 - 09.30 Oral salmon calcitonin reduces the Lequesne's functional index and decreases the urinary and serum levels of biomarkers of joint metabolism in knee osteoarthritis
D.H. Manicourt, M. Azria, L. Mindeholm, J-P. Devogelaer
- 09.30 - 10:30 **Lectures**
Chair: J.A. Gasser
- 09:30 - 10:00 Biomechanical and molecular regulation of bone remodeling
A. Robling
- 10:00 - 10:30 The cellular and molecular basis of targeted remodelling in bone
B. Noble
- 10.30 - 11.00 **Coffee Break**
- HELIOS Session 4**
- 11.00 - 12.00 **Glucocorticoid/inflammation induced osteoporosis**
Chair: D. Karras
- 11.00 - 11.20 Pathogenesis of bone disease in chronic inflammation
A. Eliopoulos
- 11.20 - 11.40 Glucocorticoid-induced osteoporosis
S. Gazi
- 11.40 - 12.00 Effect of anti-rheumatic drugs on bone metabolism
E. Kaskani
- 12.00 - 13.30 **Satellite Symposium - Sponsored by Novartis**
New horizons in the treatment of bone disorders
Chair: G.P. Lyritis
- 12.00 - 12.25 Osteoporosis, where are we heading to?
P. Burckhardt
- 12.25 - 12.50 Calcitonin in the treatment of osteoporosis
G.P. Lyritis
- 12.50 - 13.15 Zoledronic acid 5 mg: What is unique about it
J. Gasser
- 13.15 - 13.30 **Discussion**
- 13.30 - 16.30 **Lunch - Free Time**
- 15.30 - 16.30 **HELIOS General Assembly (final call)**
- HELIOS Session 5**
- 17.00 - 18.00 **Enhancement of fracture healing**
Chairs: P. Papagelopoulos - E. Papakitsou
- 17.00 - 17.30 Current trends in the enhancement of biomaterial osteointegration: biophysical stimulation
G. Babis
- 17.30 - 18.00 Enhancement of fracture-healing in clinical practice
T. Karachalios
- 18.00 - 18.30 **Coffee Break**
- 18.30 - 20.00 **Satellite Symposium - Sponsored by Eli-Lilly**
An integral confronting of Osteoporosis
Chair: G.P. Lyritis
- 18.30 - 18.55 Effectiveness of Raloxiphene in osteopenia and osteoporosis: early response and duration of its benefit
A. Katsalira
- 18.55 - 19.20 Teriparatide: a unique action on bone strength
G. Trovas
- 19.20 - 19.45 Clinical use of Teriparatide: long term clinical experience
D. Agnusdei
- 19.45 - 20.00 **Discussion**
- 20.00 - 21.30 **Satellite Symposium - Sponsored by Servier**
Chair: G. Kapetanos
- 20.00 - 20.25 Improvement in bone strength parameters: the role of strontium ranelate
S. Tournis
- 20.25 - 20.50 Management of postmenopausal osteoporosis in 2 fields: the role of strontium ranelate
D. Karras
- 20.50 - 21.15 Current treatment of postmenopausal osteoporosis: the position of strontium ranelate
G.P. Lyritis
- 21.15 - 21.30 **Discussion**
- 22.00 - 24.00 **Farewell Dinner**
- DAY 4. SUNDAY, OCTOBER 1st, 2006**
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- 09.30 - 10.30 **Lectures**
Chair: G.P. Lyritis
- 09:30 - 10:00 Tomographic assessment of muscle-bone interactions in normal humans
J.L. Ferretti
- 10:00 - 10:30 Physical fitness and nutrition as determinants of hip fracture in advanced age: the SEMOF study
P. Burckhardt
- 10:30 - 10:45 **Discussion**
- 10:45 - 11:15 **Coffee break**
- HELIOS Session 6**
- 11.15 - 12.25 **Falls**
Chair: N. Papaioannou
- 11.15 - 11.35 Preventing osteoporosis-related fractures
I. Dontas
- 11.35 - 11.55 Rehabilitation after falls and fractures
Y. Dionyssiotis
- 11.55 - 12.25 PROFANE. A European team work to promote the prevention of falls
D. Skelton
- 12.25 - 12.55 **Lecture**
Chair: A. Katsalira
- Mortality and adverse health events in newly admitted nursing home residents
D. Hadjidakis
- 13.00 - 13.30 **Closing Sessions: General Discussion**
Proposals and ideas for the 2008's meeting - Conclusions