ANZBMS 2007 Annual Scientific Meeting
9-12 September 2007, Queenstown, New Zealand

SCIENTIFIC PROGRAM
SUNDAY 9 SEPTEMBER 2007

13:00  Registration opens  
5th Floor

18:00 – 20:00  Welcome Cocktail Party  
Queenstown Room

MONDAY 10 SEPTEMBER 2007

07:00  PARALLEL SESSION

07:00  MEET THE PROFESSOR 1  
Meet the Professor 1
Best practice for mouse skeletal analysis
Natalie Sims
Cost: A$30, includes breakfast and discussion

07:00  MEET THE PROFESSOR 2  
Meet the Professor 2
Management and diagnosis of osteoporosis
Peter Ebeling
Cost: A$30, includes breakfast and discussion

08:30  OPENING AND WELCOME  
Jill Cornish, President ANZBMS

8:35  SESSION 1  
G-protein coupled receptors in bone
Chairs: Rachel Davey, David Findlay

08:35  IS1  
Catabolic and anabolic actions of PTH
Martin, T.J. (Australia)

09:00  IS2  
Calcitonin: essential hormone or vestigial peptide
Zajac, J.D. and Davey, R. (Australia)

09:25  IS3  
The role of receptor activity-modifying proteins in receptor modulation
Naot, D. (New Zealand)

09:50  OR1  
The calcitonin receptor plays a physiological role in maintaining trabecular bone volume in young female and adult male mice

10:02 – 10:30  Refreshment Break  
5th Floor

10:30  SESSION 2  
Absolute Risks
Chairs: Emma Duncan, John Wark

10:30  IS4  
Risk of fracture and treatment of osteoporosis
Cummings, S.R. (USA)

11:10  IS5  
Toward the individualisation of fracture risk
Nguyen, T.V. (Australia)

11:36  OR2  
Can bone density assessed by DXA at age 8 predict fracture risk in males and females during puberty?
Flynn, J., Foley, S. and Jones. G. (Australia)

11:48  OR3  
Endogenous sex hormones and incident fracture risk in older men: The Dubbo Osteoporosis Epidemiology Study (DOES)

12:00 – 13:00  Lunch  
5th Floor

12:00  SERVIER SYMPOSIUM  
Remarkables Room
MONDAY 10 SEPTEMBER (CONTINUED)

13:00  SESSION 3  Coronet Room
Calcium
Chairs: Rory Clifton-Bligh, Kathy Briffa

13:00  IS6  Why should we think about calcium?
Nordin, B.E.C. (Australia)

13:28  IS7  Calcium and vitamin D for whom, when and why
Prince, R.L. (Australia)

13:56  IS8  Bone and non-bone effects of calcium
Reid, I.R. (New Zealand)

14:24  OR4  Bone turnover is higher and bone density lower in adolescents with subclinical vitamin D deficiency
Winzenberg, T., Hynes, K., Powell, S. and Jones, G. (Australia)

14:36  OR5  Low vitamin D status increases osteoclastogenesis and bone loss in the rat

14:48  OR6  Accelerated bone resorption, due to dietary calcium deficiency, promotes tumour growth in a murine model of breast cancer bone metastasis

15:00 – 15:30  Refreshments 5th Floor

15:30  POSTER SESSION  Clancy’s Room & 5th Floor

17:30-18:30  SANOFI-AVENTIS SYMPOSIUM  Remarkables Room

19:00  Student’s BBQ  Peppers Hotel
07:00  **WOMEN’S BREAKFAST**  Inigo Room
An event to help establish mentoring and networking opportunities for women in the ANZBMS with respect to career advancement, academic promotion and combining careers with family.
Hosted by Nicky Partridge
Cost: A$30, includes breakfast and discussion

07:00  **MEET THE PROFESSOR 3**  Clancy’s Room
RANKL – lessons from the lab, mice and man
Colin Dunstan
Cost: A$30, includes breakfast and discussion

08:30  **SESSION 4**  Coronet Room
*Arthritis and Gout*
*Chairs: Nicole Walsh, Nick Fazzalari*

08:30  IS9  Mechanisms of bone erosion in chronic tophaceous gout
*Dalbeth, N., Smith, T., Gregory, K., Clark, B., Callon, K., McQueen, F.M., Reid, I. and Cornish, J. (New Zealand)*

08:55  IS10  The role of bone in osteoarthritis
*Jones, G. (Australia)*

09:20  IS11  Insights on arthritis from animal models
*Little, C. (Australia)*

09:48  OR7  Osteoclastogenesis inhibitors modulate experimental osteoarthritis
*Sims, N.A., MacGregor, N., Poulton, I., Gillespie, M.T. and Roman, E. (Australia)*

10:00 – 10:30  **Refreshment Break**  5th Floor

10:30 – 12:32  **PARALLEL ORAL PRESENTATIONS**

10:30  **SESSION 5A**  Coronet Room
*Clinical Presentations*
*Chairs: Ailsa Goulding, Peter Nash*

10:30  OR8  Sexual dimorphism in radial and longitudinal bone growth differ by tempo and magnitude: a study in male-female co-twins pairs
*Iuliano-Burns, S., Hopper, J., Zebaze, R. and Seeman, E. (Australia)*

10:42  OR9  Bone mass tracks strongly from childhood to adolescence
*Foley, S. and Jones, G. (Australia)*

10:54  OR10  Clinical nomogram for individualizing 5-year and 10-year risk of fracture
*Nguyen, N.D., Frost, S.A., Center, J.R., Eisman, J.A. and Nguyen, T.V. (Australia)*

11:06  OR11  Bone varies its spatial distribution rather than its mass to optimise strength and minimize bulk

11:18  OR12  Hypovitaminosis D and parathyroid hormone response in the elderly: effects on bone turnover and mortality

11:30  OR13  The effect of a one-year randomised resistance exercise and walking intervention on the prevention of bone loss in older men

11:42  OR14  Depression and falls: Geelong Osteoporosis Study
TUESDAY 11 SEPTEMBER (CONTINUED)

11:54  OR15  Hypercalcaemia and undetectable serum PTH: a case of primary hyperparathyroidism due to secretion of a mutant PTH

12:06  OR16  A phase 1 genomewide association study in osteoporosis

12:18  OR17  RANKL/RANK/OPG in breast cancer metastasis to bone

10:30  SESSION 5B  Remarkables Room
   Basic Presentations
   Chairs: Nicky Partridge, Colin Dunstan

10:30  OR18  Imatinib mesylate inhibits bone formation and decreases bone mass in vivo by inhibiting PDGFR-mediated osteoblast mitogenesis

10:42  OR19  Androgens act directly via the androgen receptor in mineralising osteoblasts to maintain trabecular bone in male mice by regulating bone turnover

10:54  OR20  Oncostatin m is an essential stimulus of bone formation and osteoclastogenesis
   Sims, N.A., Walker, E.C., McGregor, N.E., Poulton, I.J., Gillespie, M.T. and Martin, T.J. (Australia)

11:06  OR21  Neuropeptide Y protects the skeleton from bone loss induced by stress

11:18  OR22  Osteoclast formation and osteolysis are promoted by the AMP-activated protein kinase (AMPK) activator aminoimidazole-4-carboxamide ribonucleoside (AICAR) in vivo
   Quinn, J.M.W., Tam, S., Sims, N.A., Saleh, H., McGregor, N.E., Poulton, I.J., Kemp, B.E., Gillespie, M.T. and van Denderen, B.J.W. (Australia)

11:30  OR23  Adiponectin knock-out mice have increased trabecular number and bone volume at 14 weeks of age

11:54  OR24  Adverse effects of valproate on bone: defining a model to investigate the pathophysiology
   Senn, S.M., Kantor, S., Andrikopoulos, S., Poulton, I.J., Sims, N.A., O’Brien, T.J., Morris, M.J. and Wark, J.D. (Australia)

11:56  OR25  RUNX2 trinucleotide repeat mutations are associated with decreased bone density and altered protein function

12:08  OR26  TWEAK inhibits human osteoblast differentiation and modulates the activity of TNF-α on osteoblast behaviour, in part through mitogen activated kinase (MAPK) induction of sclerostin expression

12:20  OR27  Potential role of Rab3D-calmodulin interaction in osteoclastic bone resorption

12:32 – 13:30 Lunch  5th Floor

12:32-13:30  MERCK SYMPOSIUM  Remarkables Room
TUESDAY 11 SEPTEMBER (CONTINUED)

13:30  SESSION 6  Coronet Room
       Cell attachment
       Chairs: Gethin Thomas, Rebecca Mason

13:30  IS12  Role of $\alpha v \beta 3$ integrin in osteoclast function: from attachment assays to clinical trials
       Rodan, S.B.  (USA)

14:10  IS13  The effect of surface chemistry modification of implants
       Zreiqat, H.  (Australia)

14:36  OR28  Prediction of vertebral body bone strength: the contribution of individual trabecular elements
       Parkinson, I., Badiei, A., Stauber, M., Müller, R. and Fazzalari, N.  (Australia and Switzerland)

14:48  OR29  Osteoblast-targeted disruption of glucocorticoid signalling delays intra-membranous bone
       development in vivo
       Zhou, H., Mak, W., Zheng, Y., Dunstan, C.R. and Seibel, M.J.  (Australia)

15:00 – 15:30  Refreshment Break  5 th Floor

15:30  SESSION 7  Coronet Room
       Effects of Treatment
       Chairs: Kerrie Sanders, Chris Nordin

15:30  IS14  Telling the effects of treatments: randomized trials vs observational studies
       Cummings, S.R.  (USA)

16:00  IS15  Falls prevention-risk factors and RCTs
       Cumming, R.G.  (Australia)

16:24  IS16  Effectiveness of fracture prevention
       Sanders, K.M.  (Australia)

16:48  OR30  A RCT of the effects of vitamin D and calcium on bone structure and muscle strength in older
       women with vitamin D insufficiency

17:00  ANZBMS AGM  Coronet Room

19:30 – 23:00  Conference Dinner  Ben Lomond Restaurant – 6 th Floor
WEDNESDAY 12 SEPTEMBER 2007

07:00 Fun Run/Walk        Lake Wakatipu Pathway (opposite Rydges)

09:00 SESSION 8          Coronet Room
New Targets
Chairs: Nicola Dalbeth, Mark Kotowicz

09:00 IS17 Cathepsin K, a new molecular target for treatment of osteoporosis
Rodan, S.B. (USA)

09:24 IS18 Protease-activated receptors and thrombin

09:48 OR31 Osteal macrophages: novel regulators of bone formation

10:00 – 10:30 Refreshments 5th Floor

10:30 New Targets (continued)          Coronet Room

10:30 IS19 PPAR gamma – an osteoblast and adipocyte switch
Nicholson, G.C. (Australia)

10:55 IS20 The skeletal effects of thiazolidinediones in humans
Grey, A. (New Zealand)

11:20 SESSION 9          Coronet Room
Cellular commitment and communication
Chairs: Edith Gardiner, Nathan Pavlos

11:20 IS21 Multipotential mesenchymal stem/ precursor cells
Gronthos, S. and Zannettino, A.C.W. (Australia)

11:45 IS22 Chemokines and cytokines involved in PTH’s actions
Partridge, N.C., Qin, L., Raggatt, L.J., and Li, X. (USA)

12:10 IS23 Osteocytes and bone health
Findlay, D.M. and Atkins, G.J. (Australia)

12:35 IS24 Osteoclast – osteoblast communication
Quinn, J. (Australia)

13:00 – 14:00 Boxed Lunch 5th Floor

14:00 Close of Meeting
POSTERS

MINERAL REGULATING HORMONES

P01 OPG and a variant of OPG, EGX-010, prevent bone loss in the ovariectomised rat model

P02 14-3-3 protein isoforms interact differentially with the calcium-sensing receptor intracellular tail

P03 Serum testosterone in elderly men measured by liquid chromatography-tandem mass spectrometry and
radioimmunoassay: concordance and effect on epidemiologic association
Nguyen, T.V., Meier, C., Handelsman, D.J., Kushnir, M.M., Rockwood, A.L., Meikle, A.W., Center, J.R.,
Eisman, J.A. and Seibel, M.J. (Australia, Switzerland and USA)

P04 The vitamin K homologue menatetrenone (K2) provides the optimal conditions for the differentiation of
primary human osteoblasts into osteocyte-like cells
Welldon, K.J., Findlay, D.M., Vincent, C. and Atkins, G.J. (Australia)

P05 Evidence that human cartilage and chondrocyte do not express calcitonin receptor

MECHANISMS OF ACTION

P06 Characterisation of RANKL gene regulation in human T cells

P07 Progressive recruitment of amino acids with successively larger side-chains contribute to the calcium-sensing
receptor’s extreme sensitivity to Ca²⁺
Brennan, S.C., Mun, H.-C. and Conigrave, A.D. (Australia)

P08 Bone turnover and loss is significantly associated with inflammatory biomarkers in older adults:
a longitudinal study
Ding, C., Parameswaran, V., Udayan, R., Burgess, J. and Jones, G. (Australia)

P09 Saturated fatty acids inhibit osteoclastogenesis
Lin, J.M., MacGibbon, A., Watson, M., Callon, K.E., Reid, I.R. and Cornish, J. (New Zealand)

P10 Cxcl1 is a target of PTH/PTHrP in committed osteoblasts
Onan, D., Allan, E., Quinn, J., Gillespie, M.T. and Martin, T.J. (Australia)

P11 Glucocorticoids stimulate Wnt expression in mature osteoblasts
Mak, W., Zhou, H., Dunstan, C.R. and Seibel, M.J. (Australia)

P12 Transgenic disruption of glucocorticoid signalling in mature osteoblasts attenuates KRN serum-induced
arthritis in vivo
Zhou, H., Buttgereit, F., Gaber, T., Kalak, R., Dragovic, R., Huscher, D., Straub, R.H., Modzelewski, J.,
Dunstan, C.R. and Seibel, M.J. (Australia and Germany)

CELL BIOLOGY

P13 Potential involvement of ephrinb2 in the anabolic action of PTH in osteoblasts
Allan, E.H., Häusler, K.D., Wei, T., Gooi, J.H., Quinn, J.M.W., Onyia, J.E., Sims, N.A., Gillespie, M.T. and
Martin, T.J. (Australia and USA)

P14 Strontium ranelate promotes osteoblast differentiation resulting in an enhanced osteocyte-like phenotype in
mineralised cultures of human primary osteoblasts
Atkins, G.J., Welldon, K.J. and Findlay, D.M. (Australia)

P15 Effects of a phosphodiesterase 4 (PDE4) inhibitor on bone mass: mechanism of action in human osteoblasts
Brennan, T.C., Rybchyn, M.S., Seale J.P. and Mason, R.S. (Australia)

P16 Macrophages persist within primary osteoblast cultures and enhance osteoblast mineralisation

P17 G-CSF enhances osteoclast differentiation and function
Granfar, R.M.S., Day, C.J. and Morrison, N.A. (Australia)
POSTERS (CONTINUED)

P18  The osteogenic sensitivity of skeletal myoblasts corresponds to an increased expression of bone morphogenetic protein receptors
Liu, R., Schindeler, A., Mikulec, K., Morse, A. and Little, D.G. (Australia)

P19  Abnormal chondrocyte and osteoclast morphology in mice with collagenase-resistant type II collagen
Tatarczuch, L., Gauci, S.J., Fosang, A.J. and Mackie, E.J. (Australia)

P20  CRELD2: a potentially novel thrombin-interacting protein and its expression by osteoblasts
Pagel, C.N., Quinsey, N., Pike, R.N. and Mackie, E.J. (Australia)

P21  Rab3D recruits the dynein complex to secretory vesicles in osteoclasts through direct interaction with Tctex-1

P22  IL-33 inhibits osteoclast formation indirectly through osteoblastic cells
Saleh, H., Quinn, J.M.W., Martin, T.J. and Gillespie, M.T. (Australia)

P23  The calcium-sensing receptor is involved in human osteoblast proliferation and function
Rybchyn, M.S., Brennan, T.C., Conigrave, A.D. and Mason, R.S. (Australia)

P24  Osteoclast precursor numbers from peripheral blood are increased in patients with the arthritis mutilans form of psoriatic arthritis
Smith, T., Dalbeth, N., Lee, J., Taylor, W., Reeves, Q., Robinson, E., Jones, P., Østergaard, M., Reid, I., Cornish, J. and McQueen, F.M. (New Zealand and Denmark)

P25  Osteoclast formation is inhibited at therapeutic ranges of NFAT inhibitors FK506 and Cyclosporin A

P26  DMSO potently enhances RANKL-dependant osteoclast formation

P27  Adenosine receptors can modulate osteoclastogenesis
(Australia, USA and France)

P28  The role of the calcitonin receptor in osteoclast formation and function

P29  Wnt signaling antagonists may suppress osteoblast differentiation and function in rheumatoid arthritis

P30  Chondrocyte apoptosis in osteoarthritic knee joint of rabbits
Qu, N.-H., Chen, Y.-B., Tao, D., Wang, C. and He, Y. (China)

P31  Ectoderm Neural Cortex 1, a Wnt target gene, is expressed in chondrocytic and osteoblastic cells

BIOMATERIALS

P32  Novel biomaterials for skeletal tissue regeneration
Ramaswamy, Y., Wu, C., Grau, G., Combes, V. and Zreiqat, H. (Australia)

ORTHOPAEDICS

P33  Osteoclast-associated receptor (OSCAR) is expressed at sites of focal bone resorption adjacent to orthopaedic implants

P34  Gene expression of stress fracture healing

P35  Early, soft fracture callus exhibits the smooth muscle-associated traits of stress-relaxation and reverse stress-relaxation: implications for the fracture repair process
POSTERS (CONTINUED)

P36   PTH treatment increases fracture callus size and strength more effectively in closed than open fractures
McDonald, M., Tagil, M., Morse, A., Godfrey, C., Schindeler, A., Amanat, N. and Little, D. (Australia)

P37   Mesenchymal precursor cells in ovine lumbar spinal fusion
Moore, R.J., Oakley, A.P., Tizzard, S.P., LaRue, B., Mulabrahimovic, A., Nikoloff, S., Gronthos, S.,
Zannettino, A.C.W., Taylor, D.J., Itescu, S., Vernon-Roberts, B. and Fraser, R.D. (Australia)

BASIC - OTHER

P38   Examination of pagetic osteoblasts by transmission electron microscopy
Bava, U., Naot, D., Matthews, B.G., Callon, K.E., Edgar, S., Pitto, R., McCowan, S., Cundy, T., Cornish, J.
and Reid, I.R. (New Zealand)

P39   Species variation in bone mineral investigated using pyrolysis and X-ray diffraction analysis
Beckett, S. and Rogers, K. (UK)

P40   V-ATPase subunit d2 promoter is regulated by NFAT in osteoclasts

P41   Effects of dietary antioxidants on human osteoclast formation and function

P42   Human parathyroid hormone (1-34) restores ovariectomy-Induced cortical and cancellous bone loss within
axial and appendicular skeletal sites of C57BL/6j mice
Davey, T., Xu, J., Pavlos, N. and Zheng, M.H. (Australia)

P43   Is persistence with alendronate better in the Waikato region and New Zealand wide than international
published rates?
Doube, A. (New Zealand)

P44   XXXY mice have an osteoporotic phenotype
Wang, C., Swerdlow, R.S. and Dunstan, C.R. (Australia and USA)

P45   Generation of bone forming osteoblasts derived from Wharton’s Jelly mesenchymal stem cells – effect of
oxygen tension

P46   The novel c-fms inhibitor Cyc11645 potently inhibits human osteoclast formation and function

P47   No evidence of measles virus RNA or somatic SQSTM1 mutations in bone cells from patients with Paget’s
disease

P48   Adenomatous human parathyroid cells exhibit decreased sensitivity to L-amino acids

P49   Basic milk proteins in the lactoferrin fraction augment anabolic bone activity
Palmano, K., Callon, K.E., Watson, M., Reid, I.R. and Cornish, J. (New Zealand)

P50   Reduced bone mineral content, size, and strength caused by intrauterine growth restriction are corrected by
an improved postnatal lactational environment in female offspring
Romano, T., Wark, J.D., Owens, J.A., Morris, H.A. and Wlodek, M.E. (Australia)

P51   Effect of oxygen tension on human osteoclast formation and function

P52   State-of-the-art mathematical modeling approaches applied to bone biology
Smith, D.W., Pivonka, P., Gardiner, B.S., Dunstan, C.R. and Martin, T.J. (Australia)

P53   Fatty acids act directly on osteoclast-like cells

P54   Micro-CT analysis of tibiae in leptin receptor-deficient mice
Watson, M., Callon, K.E., Williams, G.A., Reid, I.R. and Cornish, J. (New Zealand)

P55   Histomorphological investigation of the mechanisms of the bone loss in an osteoporotic sheep model
MALIGNANT BONE DISEASE

P56  Do mutations in SH3BP2 cause giant cell tumours?
Addison, K., Gardiner, E., Athanasou, N., Brown, M. and Duncan, E. (Australia and UK)

P57  Tartrate-resistant acid phosphatase 5 as a marker for pulmonary metastasis in osteosarcoma

P58  Multimodal imaging analysis of tumour progression and bone destruction in a murine model of multiple myeloma: efficacy of Apo2L/TRAIL

P59  Zoledronic acid modulates the expression of ADAMTS-1 and -5 in chondrocytes

CLINICAL OSTEOPOROSIS

P60  Are the skeletal benefits of calcium-vitamin D₃ fortified milk sustained following withdrawal of supplementation in older men? An 18 month follow-up study
Daly, R.M., Petras, N., Bass, S. and Nowson, C. (Australia)

P61  Hip radiographic osteoarthritis predicts total hip bone density loss over 2 years: the Tasmania Older Adult Cohort (TASOAC) Study
Ding, C., Cooley, H., Srikanth, V. and Jones, G. (Australia)

P62  Effects of isoflavone on surgically menopausal women

P63  The effect of vitamin D3 addition to bone mineral density in postmenopausal women
Kim, J.H., Jung, J.E., Kim, M.J., Hwang, S.J., Kim, E.J. and Cho, H.H. (Korea Republic)

P64  Is regular table tennis activity associated with increased bone and muscle strength and improved balance in elderly Asian men and women?
Liu, L., Wark, J.D., Hill, K., Wong, P. and Kwok, N. (Australia)

P65  Complementary and alternative medicine use by patients with osteoporosis: the CAMEO study
Mak, J.C., Mak, L.Y., Shen, Q. and Seibel, M.J. (Australia)

P66  A cohort study of the effects of protein intake on body composition

P67  Bone loss prior to fracture: Geelong Osteoporosis Study

P68  Risk of fracture in elderly men and women with cancer

P69  Bone mineral density and hip fracture: a revisit with time-varying effects

P70  Development of a nomogram for individualizing the absolute risk and time to subsequent fracture
Nguyen, N.D., Frost, S.A., Center, J.R., Eisman, J.A. and Nguyen, T.V. (Australia)

P71  Hip radiographic image-derived morphometric & trabecular structural phenotypes in a large group of dizygotic twin pairs: methodology

P72  Association between LRPS gene and bone mineral density: a meta-analysis
Tran, B.H., Nguyen, N.D., Eisman, J.A. and Nguyen, T.V. (Australia)

P73  Incremental prognosis of osteoporotic fractures by genetic marker: contribution of the collagen I alpha 1 gene
Tran, B.H., Nguyen, N.D., Frost, S.A., Center, J.R., Eisman, J.A. and Nguyen, T.V. (Australia)

P73A  Bone mineral homeostasis and bone mineral density in Vitamin D sufficient and deficient patients with hyperthyroidism
Dhanwal, D., Goswami, R., Nandita and Kochupillai (India)
POSTERS (CONTINUED)

PAEDIATRICS

P74  Children experiencing fractures during growth have higher adiposity than those remaining fracture-free: an 8-year study of 142 New Zealand girls
   Goulding, A., Grant, A.M. and Williams, S.M. (New Zealand)

P75  A cross-sectional study of factors associated with skeletal age deviation
   Powell, S., Ma, D., and Jones, G. (Australia and USA)

P76  Relationship of total body fat mass to bone area in New Zealand five-year-olds: a DXA study of the FLAME birth cohort
   Goulding, A., Taylor, R.W., Grant, A.M., Murdoch, L., Taylor, B.J. and Williams, S.M. (New Zealand)

EPIDEMIOLOGY, PUBLIC HEALTH AND GENETICS

P77  Risk of subsequent fracture depends on bone mineral density and fracture type: a 17-year prospective study
   Bliuc, D., Nguyen, N., Nguyen, T.V., Eisman, J.A. and Center, J.R. (Australia)

P78  Bone mineral density in quitters compared with continuing smokers at one year: the Quitline cohort study
   Christie, J.J., Day, L., Osborne, R., Segan, C. and Wark, J.D. (Australia)

P79  The -1260C/A polymorphism in the 1-alpha hydroxylase gene (CYP27B1) promoter is associated with fracture risk in the frail elderly (the FREE Study)
   Clifton-Bligh, R., Nguyen, T., Au, A., Chen, J. and Sambrook, P. (Australia)

P80  Osteoporosis: use of bisphosphonates in the Australian population
   Gunanti, I., Duncan, E., Nissen, L. and Hollingworth, S. (Australia)

P81  Body composition and bone mass: childhood to adolescence
   Foley, S., Quinn, S. and Jones, G. (Australia)

P82  Post-fracture excess of mortality in elderly women and men after adjusting for background mortality risk
   Frost, S.A., Nguyen, N.D., Center, J.R., Eisman, J.A. and Nguyen, T.V. (Australia)

P83  Development of a nomogram for making decision concerning measurement of bone mineral density for an individual
   Frost, S.A., Nguyen, N.D., Center, J.R., Eisman, J.A. and Nguyen, T.V. (Australia)

P84  Pacific Island adolescents have greater bone mineral content and bone area than age-and size-matched New Zealand Europeans

P85  Bone mineral density in a population-based sample of Australian men: Geelong Osteoporosis Study (GOS)

P86  Breastfeeding predicts both bone mass and fractures in adolescents: a 16 year longitudinal study
   Hynes, K.L., Dwyer, T. and Jones, G. (Australia)

P87  The burden of fracture imposed by men in a major regional hospital

P88  Polymorphisms within ARHGEF3 are associated with bone mineral density in women

P89  Prediction of fracture risk by LRP5 gene polymorphisms: a haplotype analysis in a population-based study
   Nguyen, N.D., Tran, B.H., Center, J.R., Eisman, J.A. and Nguyen, T.V. (Australia)

P90  Knowledge of osteoporosis among tertiary students in Vietnam

P91  Characteristics of men with morphometric vertebral fracture: Geelong Osteoporosis Study

P92  Vitamin D status and effects on postural control between fallers and non-fallers
   Austin, N., Devine, A., Dick, I., Zhu, K. and Prince, R. (Australia)
POSTERS (CONTINUED)

P93 Calcium and vitamin D supplementation prevents hip bone loss in elderly ambulant Australian women Zhu, K., Devine, A., Dick, I.M. and Prince, R.L. (Australia)


P95 Feedback on calcium intake is an effective tool to increase intake in older women Hayles, A.L., Nicholson, G.C., Kotowicz, M.A. and Sanders, K.M. (Australia)


P97 A genome-wide ENU mutagenesis screen for skeletal abnormalities – a new resource for Australian bone researchers Thomas, G.P. and Brown, M.A. (Australia)

P98 The combined influence of bone, muscle and fat on gait, balance and falls in older adults Waters, D.L., Goulding, A., Herbison, P., Grant, A.M. and Hale, L. (New Zealand)

DENSITOMETRY


P100 pQCT measures are associated with fractures in dialysis patients Wong, P., Clifton-Bligh, R., McGinn, S., Caterson, R., Cooper, B., Wells, L., Baird, S., Nery, L. and Clifton-Bligh, P. (Australia)

P101 Methodological issues in measuring knee subchondral bone density in the tibia Dore, D., Ding, C. and Jones, G. (Australia)


BONE QUALITY AND MECHANICAL PROPERTIES

P105 The structural strength of a femoral cross section varies according to its position along its length Bohte, A., Zebaze, R., Ghasem-Zadeh, A., Wang, Q.J., Evans, A., Teo, J.W., Price, R.I. and Seeman, E. (Australia)


P107 Back-scattered electron imaging of bone mineralisation in osteoarthritis Sutton-Smith, P., Beard, H., Ma, B. and Fazzalari, N.L. (Australia)


P109 The femoral neck is no drinking straw: heterogeneity in structure is not captured using the Hip Structural Analysis Zebaze, R., Jones, A., Bohte, A., Knackstedt, M. and Seeman, E. (Australia)
POSTERS (CONTINUED)

CLINICAL - OTHER

P110  The time-course of response to three high oral cholecalciferol doses  

P111  Increases in adiposity and areal BMD in young women: Geelong Osteoporosis Study  

P112  Biocompatibility performance of bone allografts irradiated at standard and lower doses  

P113  Chronic anti-epileptic drug treatment is associated with lower balance function test performance - an AED-discordant matched twin and sibling pair study  
Petty, S.J., El Haber, N., Paton, L.M., Lawrence, K.M., Berkovic, S.F., O’Brien, T.J., Hill, K. and Wark, J. D. (Australia)