

# Final Program

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## WELCOMES

Dear Colleagues,

The Annual Scientific Meeting is the single most important function of the society. It is the only forum we have for meeting as a group, challenging each other's ideas in an open forum, and discussing the vision we have for the future of our society. Please make your attendance a priority, submit your best work to this meeting, not to others, come to the microphone at the sessions and don't spare the presenters, and don't deprive young investigators the opportunity to learn by example as they tremble at the thought of asking a question.

Council members want to know what the society can do for you in terms of funding and educational support but we also ask for your support. Help the society by encouraging members of your department to attend the meeting. There are travel grants available and where possible we will do our best to assist you. Make an effort to increase the membership of the society so the diversity of intellectual activity of the society will grow and continue the tradition of a strong presence of Australia in the international arena of bone and mineral research. Please attend the Annual General Meeting so that Council can tell you about its activities and hear your views. If you do not tell us what you would like from your society we will decide for you. Keep the scientific flame a brightly lit beacon. I would like to thank the chairpersons of the POC/LOC - Edith Gardiner and Chris White - for their hard work in organising this program and with the support of the members, I am sure that this meeting has all the ingredients needed for success.

*Ego Seeman*  
President, ANZBMS

### PROGRAM ORGANISING COMMITTEE

- \* Rory Clifton-Bligh
- \* Michael Hooper
- \* Arthur Conigrave
- \* Rebecca Mason
- \* Edith Gardiner (Chair)
- \* Chris White

### MEETING SECRETARIAT

For all enquiries please contact:  
Ms Emma Waygood  
ANZBMS 2004 ASM Secretariat  
Conference Action Pty Ltd  
PO Box 576 (Suite 104, 308 Pacific Highway)  
CROWS NEST NSW 1585 AUSTRALIA  
Telephone: +61 2 9437 9333  
Facsimile: +61 2 9901 4586  
Email: emma@conferenceaction.com.au

Dear Colleagues,

Welcome to the 2004 Annual Scientific Meeting of the ANZBMS held at Cypress Lakes Resort in the Hunter Valley, NSW.

Set amongst the vineyards of the Hunter Valley, Cypress Lakes Resort provides the perfect venue for this year's Scientific Meeting - for the exchange of ideas and the birth of new ones, for the presentation and discussion of data, or for meeting and relaxing with friends.

If you are also attending the Endocrine Society of Australia Clinical Weekend following our ASM, we encourage you to attend the Friday morning ANZBMS scientific sessions devoted to clinical issues and then to enjoy your free Friday afternoon in the Hunter Valley before the Friday evening session of the ESA Weekend, which will also have a strong bone theme.

A dose of academic bone and mineral medicine is recommended once a year. Cypress Lakes Resort is recommended at least once a lifetime. We look forward to your company and value your participation.

<i>Edith Gardiner</i>	<i>Chris White</i>
Co-Convenor	Co-Convenor
ANZBMS 2004 ASM	ANZBMS 2004 ASM

### LOCAL ORGANISING COMMITTEE

- |                    |                       |
|--------------------|-----------------------|
| * Bronwyn Crawford | * Elisabeth Smith     |
| * Martin Epstein   | * Chris White (Chair) |
| * Edith Gardiner   |                       |

### ANZBMS AGM

The Annual General Meeting of ANZBMS will be held in the Brokenback/Wattagan Rooms at Cypress Lakes Resort on Thursday, 19 August 2004 from 1745 - 1845 hours. All members are encouraged to attend. The following awards will be presented:

- Roger Melick Young Investigators Award  
(Sponsored by: Servier)
- Chris Nordin Young Investigators Award  
(Sponsored by: Servier)
- Top two ANZBMS Outstanding Awards  
(Sponsored by: InSight & Key Pharmaceuticals)
- Christine & T Jack Martin Research Travel Grant  
(Sponsored by: Merck Sharp & Dohme)
- ANZBMS PhD Scholarship Award

## **SPONSORS & EXHIBITORS**

On behalf of all participants in this Meeting, the Organising Committee would like to express their gratitude for the support received from the following companies:

### **PLATINUM SPONSORS**

Eli Lilly Australia  
Merck Sharp & Dohme

### **GOLD SPONSOR**

Aventis Pharma Pty Ltd

### **SILVER SPONSOR**

Novartis Oncology

### **OTHER SPONSORS & EXHIBITORS**

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InSight  
Key Pharmaceuticals  
Mayne Pharma  
Medtel Pty Ltd  
Merck Sharp & Dohme  
Novartis Oncology  
Osteoporosis Australia  
Servier

## THE COUNCIL OF THE ANZBMS 2004

<b>President</b>	Professor Ego Seeman
<b>President-Elect</b>	Associate Professor Jillian Cornish
<b>Honorary Secretary</b>	Associate Professor David Findlay
<b>Treasurer</b>	Dr Mark Forwood
<b>Councillors</b>	Associate Professor Rebecca Mason Associate Professor Roger Price Professor Geoff Nicholson Professor Philip Sambrook

## ANZBMS PAST & PRESENT COUNCILLORS 1990 - 2004

Year	President	V President	Secretary	Treasurer	Councillors
1990 (Steering Group)	T J Martin		M Hooper		A Need, R Prince, J Eisman, I Reid, K Ibbertson, D Fraser, P Sambrook, E Seeman
1991-93 (Inaugural Council)	T J Martin		M Hooper	M Hooper	J Eisman, A Goulding, D Perry-Keen, J Wark, A Need, N Kent
1993-95	J Eisman	I Reid	N Kent	J Wark	P Sambrook, A Need, R Prince, D Perry-Keene, E Seeman
1995-97	I Reid	N Kent	J Moseley	P Ebeling	P Sambrook, A Need, R Prince, D Perry-Keene
1997-99	N Kent	P Ebeling	J Moseley	P Ebeling	R Prince, I Reid, M Hooper, H Morris, M Forwood
1999-01	P Ebeling	M Hooper	J Cornish	M Forwood	J Moseley, H Morris, E Mackie, M Zheng
2001-03	M Hooper	E Seeman	J Cornish	M Forwood	R Mason, R Price, G Nicholson, D Findlay
2003-05	E Seeman	J Cornish	D Findlay	M Forwood	R Mason, R Price, G Nicholson, P Sambrook

## ANZBMS PAST AWARD RECIPIENTS

### ROGER MELICK YOUNG INVESTIGATOR AWARD

1996	-	<i>Vicky Kartsogiannis</i>
1997	-	<i>Linda Crofts</i>
1998	-	<i>Janelle Barry</i>
1999	-	<i>Liza-Jane Raggatt</i>
2000	-	<i>Sandra Iuliano-Burns</i> <i>Nathan Pavlos</i>
2001	-	<i>David Good</i>
2002	-	<i>Kun Zhu</i>
2003	-	<i>Agatha Labrinidis</i> <i>Xiaofang Wang</i>

### CHRISTOPHER NORDIN YOUNG INVESTIGATOR POSTER AWARD

1997	-	<i>Anne Nelson</i> <i>Hidenori Murata</i>
1998	-	<i>Marianne Holzherr</i>
1999	-	<i>Tanya Uebergang</i>
2000	-	<i>Josef Kaplan</i>
2001	-	<i>Rebecca Jackson</i>
2002	-	<i>Nathan Pavlos</i>
2003	-	<i>Nicole Walsh</i> <i>Rouha Granfar</i>

### CHRISTINE AND T JACK MARTIN RESEARCH TRAVEL GRANT

2002	-	<i>Catherine Middleton-Hardie</i>
2003	-	<i>Vicky Kartsogiannis</i>

### ANZBMS OUSTANDING ABSTRACT AWARD

Field of Densitometry

2003	-	<i>Rob Will</i>
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Field of Calcium Nutrition

2003	-	<i>Amanda Devine</i>
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## GENERAL INFORMATION

### VENUE

Cypress Lakes Resort, Hunter Valley  
Corner McDonald & Thompson Roads  
Pokolbin NSW 2320 AUSTRALIA  
Telephone: +61 2 4993 1555  
Facsimile: +61 2 4993 1599

### REGISTRATION DESK

The Meeting Registration Desk will be located outside the main rooms of the Convention Centre at Cypress Lakes Resort.

#### Registration hours:

Wednesday, 18 August 2004	0730 - 1800 hours
Thursday, 19 August 2004	0800 - 1800 hours
Friday, 20 August 2004	0830 - 1310 hours

### NAME BADGES

All delegates will be given a name badge at registration. For security reasons, we ask that you wear your name badge at all times. This name badge is also the official entrance pass to all scientific sessions, exhibition area, poster area, teas & lunches each day and inclusive social functions.

### MESSAGES

All messages received during the Meeting will be displayed on the message board near the registration desk.

### SMOKING POLICY

There will be no smoking in all scientific sessions or in areas where food and beverage are served.

### HOTEL ACCOUNTS

All delegates are reminded to pay their hotel account prior to departure from their hotel. Please note that the deposit you have paid on the ANZBMS 2004 ASM registration form has been credited to your room account, however, each delegate is responsible for the payment of incidentals and any further room costs.

### CREDIT CARDS

Credit cards accepted at the Registration Desk are Mastercard, Australian Bankcard and Visa - please note that American Express & Diners will not be accepted.

### MOBILE PHONES

Please ensure that all mobile phones are switched to silent mode during the scientific sessions.

### DISCLAIMER OF LIABILITY

The Meeting Organising Committee reserves the right to amend any part of the Meeting program or event should it be necessary.

The Australian & New Zealand Bone & Mineral Society, including the Meeting Secretariat, will not accept liability for damages of any nature sustained by participants or their accompanying persons, or loss of, or damage to, their personal property as a result of the 2004 Annual Scientific Meeting or related events.

## SOCIAL EVENTS

### WELCOME RECEPTION

**Venue:** Exhibition & poster area  
**Date:** Wednesday, 18 August 2004  
**Time:** 1830 - 2030 hours  
**Cost:** Included in Full Delegate Registration Fee  
Extra tickets: \$50.00 per person

It is hoped all delegates and partners will be able to attend this evening, which will be held in the exhibition & poster area.

### FUN RUN

*Sponsored by: Merck Sharp & Dohme*  
**Date:** Thursday, 19 August 2004  
**Time:** 0700 - 0800 hours

All participants are asked to meet just outside the reception area of Cypress Lakes Resort by 0700 hours. Lincoln Amidy from Pinnacle Corporate Health will give you a brief on course and go through a few stretches with you. The 5km course will be indicated by markers on trees and on the ground. Please ensure that you are suitably dressed for the run and advise Lincoln of any health issues prior to starting the run. The course will conclude back at Cypress Lakes Resort on the grass area outside the Convention Centre.

### GALA DINNER

*Sponsored by: Osteoporosis Australia*  
**Venue:** Tamburlaine Winery  
**Date:** Thursday, 19 August 2004  
**Time:** 1930 - 2300 hours  
(pre-dinner drinks 1930 - 2000 hours)  
**Cost:** Included in Full Delegate Registration Fee  
Extra tickets: \$90.00 per person

The Gala Dinner featuring local wines will be held at Tamburlaine Winery, which is located across the road from Cypress Lakes Resort, Hunter Valley. A Cypress Lakes Resort shuttle bus will ferry people to Tamburlaine between 1915 - 1945 hours - however it is only a short walk across the road to Tamburlaine. We hope all delegates and their guests will join us on this occasion to make it a memorable evening.

## HOTEL TRANSFERS

The following transfers to/from the ASM have been organised for those delegates not staying at Cypress Lakes Resort:

### Wednesday, 18 August 2004

\* 0745 hours - Harrigan's - Hunter Valley Gardens - Cypress Lakes Resort

\* 2015 hours - Cypress Lakes Resort - Hunter Valley Gardens - Harrigan's

### Thursday, 19 August 2004

\* 0800 hours - Harrigan's - Hunter Valley Gardens - Cypress Lakes Resort

\* 1845 hours - Cypress Lakes Resort - Hunter Valley Gardens - Harrigan's

\* 1930 hours - Harrigan's - Hunter Valley Gardens - Tamburlaine Winery

\* 2230 hours - Tamburlaine Winery - Hunter Valley Gardens - Harrigan's

### Friday, 20 August 2004

\* 0830 hours - Harrigan's - Hunter Valley Gardens - Cypress Lakes Resort

The distance between Cypress Lakes Resort and Hunter Valley Gardens/Harrigan's Irish Pub is about a 5 minute drive, but a 20 minute walk.

Therefore, if you would like to utilise these transfers, please wait at the hotel lobby of the particular property at the above times for collection.

## KEYNOTE SPEAKERS

### **GERARD KARSENTY**

*Baylor College of Medicine, Houston, Texas, USA*

Dr Gerard Karsenty is Professor of Molecular and Human Genetics at Baylor College of Medicine. His research focuses on two main areas. One is transcriptional control of osteoblast differentiation and how it relates to the pathophysiology of human skeletal dysplasias. In this line of research, his laboratory has uncovered the role of the key transcription factor Runx2 in this process. A second line of research focuses on a genetic approach of skeletal physiology with an emphasis on the molecular basis of the spatial restriction of extracellular matrix mineralization to bone and on the control of bone mass by humans and the nervous system. Professor Karsenty's groundbreaking research has identified and elucidated key mechanisms that control bone formation, providing a number of significant novel insights into bone biology and physiology.

### **SUNDEEP KHOSLA**

*Mayo Clinic, Rochester, Minnesota, USA*

Dr Sundeep Khosla is Professor of Medicine and Research Chair in the Division of Endocrinology, Metabolism, and Nutrition, Mayo Clinic College of Medicine. His research focuses on clinical-investigative studies aimed at defining the pathogenesis of age-related bone loss in women and in men. In addition, he is also pursuing studies at a more basic level on the mechanisms of sex steroid action on bone. Dr Khosla is a member of the Council of the American Society for Bone and Mineral Research and is also on the Board of Directors of the US National Osteoporosis Foundation.

INVITED INTERNATIONAL SPEAKER

### **SERGE FERRARI**

*University Hospital, Geneva, Switzerland*

Dr Ferrari is a Swiss National Science Foundation (SNF) Professor of Medicine in the Division of Bone Diseases, Department of Rehabilitation and Geriatrics at the University Hospital in Geneva, Switzerland. He currently serves as a consultant in genetics for the Framington Osteoporosis Study, is a member of the Board of Directors of the Centers for Genetics, Nutrition, Exercise & Health from the International Union of Nutritional Sciences (IUNS), a member of the Editorial Board of Osteoporosis International and a consultant for numerous drug companies interested in the development of anti-osteoporosis drugs and molecular markers of osteoporosis risk. His research aims to identify candidate gene polymorphisms for osteoporosis in humans, with a particular interest in their interaction with environmental factors. Dr Ferrari also investigates the regulation of bone mass acquisition and PTH activity in transgenic models.

INVITED SATELLITE MEETING SPEAKER

### **FRANK RAUCH**

*Shores Hospital, Montreal, Canada*

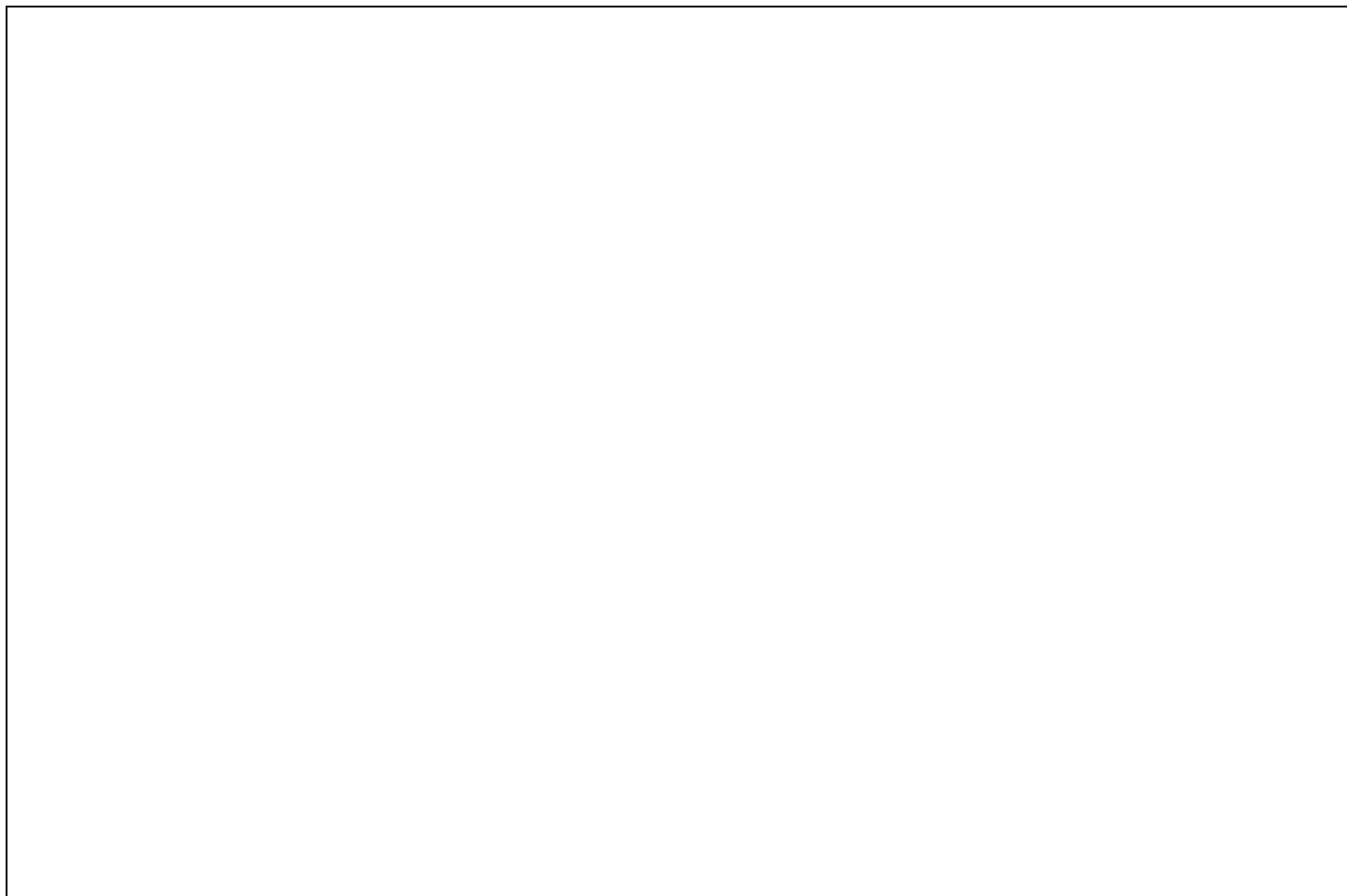
Dr Frank Rauch is Assistant Professor at the Department of Paediatrics at McGill University and Assistant Director of Clinical Research at The Shriners' Hospital for Children in Montreal. Dr Rauch has developed significant expertise in bone histomorphometry in children and in children receiving interventional therapy for metabolic bone disease. His research interests are in skeleton development and metabolic bone disorders in children and he has published extensively in both these fields. His talks at the Paediatric Bone Meeting in Sydney will include "What the heck is bone density?" and "Why are bisphosphonates such useful drugs in osteogenesis imperfecta?".

## EXHIBITION & POSTER AREA

The Exhibition and Poster Area will be open during the following times:

Wednesday, 18 August 2004	1030 – 2030 hours
Thursday, 19 August 2004	0830 – 1800 hours
Friday, 20 August 2004	0830 – 1100 hours

Please find below a current floor plan of the area.



We acknowledge with gratitude the support given by these companies and ask that you show your appreciation by visiting all the exhibits.

<u>Stand</u>	<u>Company</u>
4 & 5	Inderlec Medical Systems
6 & 7	Aventis Pharma
8	Medtel Pty Ltd
9	Key Pharmaceuticals
10 & 11	Merck Sharp & Dohme
12 & 13	Eli Lilly Australia
14	Novartis Oncology
17	Mayne Pharma
18	InSight
20	Diagnostic Systems Laboratories



## SPEAKER PREPARATION

Speakers are asked to check their audio visual material before presenting. There will be an audio visual technician at the back of each room for the duration of the Meeting and we ask that you check-in with this technician at least two hours prior to your presentation. At this time you will be able to provide the technician with a copy of your presentation.

## POSTER DETAILS

All posters will be displayed for the duration of the Meeting. All posters should be in place prior to 1030 hours on **WEDNESDAY, 18 AUGUST 2004** and removed by 1100 hours (morning tea) on **FRIDAY, 20 AUGUST 2004**. No responsibility will be taken for posters left after this time.

Presenting authors are asked to stand by their poster(s) at the following times:

**ODD** numbers:

1245 - 1315 hours, Wed, 18 Aug 2004 (lunchtime)

1745 - 1830 hours, Wed, 18 Aug 2004 (poster rounds B)

**EVEN** numbers:

1700 - 1745 hours, Wed, 18 Aug 2004 (poster rounds A)

1245 - 1315 hours, Thur, 19 Aug 2004 (lunchtime)

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## ANZBMS 2005 ASM

Mark your diaries now!

The ANZBMS 2005 ASM is to be held:

**Date:** 7 - 9 September 2005

**Venue:** InterContinental Burswood Resort

**Location:** Perth

All ANZBMS members and 2004 ASM delegates will automatically receive information once it is available. However, if you do have any queries, please contact the ANZBMS 2005 ASM Secretariat:

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Conference Action Pty Ltd  
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CROWS NEST NSW 1585 AUSTRALIA  
Telephone: +61 2 9437 9333  
Facsimile: +61 2 9901 4586  
Email: [emma@conferenceaction.com.au](mailto:emma@conferenceaction.com.au)

# SCIENTIFIC PROGRAM

**WEDNESDAY, 18 AUGUST 2004**

(All sessions today will be plenary style and located in the Convention Centre at Cypress Lakes Resort)

- 0730 - 1800 Registration
- 0815 - 0830 Welcome
- 0830 - 1030 **SESSION 1 - HORMONAL CONTROL OF BONE**  
*Chaired by: Rachel Davey & Jill Cornish*
- 0830 - 0915 IP1 **Sex hormones & the skeleton**  
Sundeep Khosla
- 0915 - 0940 IP2 **Insights from ERKO models: what do they tell us about estrogen receptor function in bone?**  
Natalie Sims
- 0940 - 1030 **FREE ORALS**
- 0940 - 0950 O1 **Osteoclast inhibitory lectin (OCIL) is required for normal bone remodelling in vivo and inhibits osteoblast function in vitro**  
Akira Nakamura, JMW Quinn, NA Sims, CT Gange, H Zhou, V Kartsogiannis, EH Allan, TJ Martin, KW Ng & MT Gillespie
- 0950 - 1000 O2 **Thrombin stimulates osteoclast differentiation by activation of protease-activated receptor-1**  
Sutharshani Sivaguranathan, PD Campbell, R Smith, CN Pagel, RN Pike & EJ Mackie
- 1000 - 1010 O3 **Inhibition of breast cancer growth in bone using TRAIL therapy**  
Lee Thai, A Labrinidis, S Hay, V Liapis, S Bouralexis, K Weldon, BJ Coventry, DM Findlay & A Evdokiou
- 1010 - 1020 O4 **Targeting primary prevention of fracture in osteoporotic women: Geelong osteoporosis study**  
Mark Kotowicz, MJ Henry, JA Pasco, KM Sanders, E Seeman & GC Nicholson
- 1020 - 1030 O5 **Bone resorption and osteoporotic fractures in elderly men: the Dubbo osteoporosis epidemiology study**  
Christian Meier, TV Nguyen, JR Center, MJ Seibel & JA Eisman
- 1030 - 1100 *Morning tea*
- 1100 - 1300 **SESSION 2 - YOUNG INVESTIGATOR AWARDS**  
*Sponsored by: Servier*  
*Chaired by: David Findlay*
- 1100 - 1115 O6 **Identification and functional characterization of an osteoclast-derived osteoblastic factor (ODOF): novel growth factor in bone**  
Tony Phan, R Han, V Smuts, MH Zheng & J Xu
- 1115 - 1130 O7 **Y-receptor and leptin interactions in the central regulation of bone formation and marrow fat**  
Susan Allison, PA Baldock, A Sainsbury, RF Enriquez, M Couzens, H Herzog & EM Gardiner
- 1130 - 1145 O8 **Gene expression in the Pagetic osteoblast**  
Usha Bava, D Naot, KE Callon, IR Reid, R Pitto, S McCowan, T Cundy & J Cornish
- 1145 - 1200 O9 **Controversies in calcium-sensing in bone**



1200 - 1215	O10	<b>Zoledronic acid treatment does not delay the process of endochondral ossification in a rat fracture model</b> <u>Michelle McDonald</u> , SK Dulai & DG Little
1215 - 1230	O11	<b>Sesquiterpene lactone parthenolide blocks lipopolysaccharide induced osteolysis via the suppression of NF-<math>\kappa</math>B activity</b> <u>Kirk Ho Man Yip</u> , MH Zheng, HT Feng, JH Steer, DA Joyce & J Xu
1230 - 1245	O12	<b>Functional responses of bone cells to stimulation by strontium</b> <u>Tara Brennan</u> , MM Muir, AD Conigrave & RS Mason
1245 - 1300	O13	<b>Secretory phospholipase-A<sub>2</sub> (sPLA<sub>2</sub>) inhibition prevents ovariectomy-induced bone loss in adult rats</b> <u>Laura Gregory</u> , WL Kelly & MR Forwood
1300 - 1430		<i>Lunch and trade displays / posters odd nos.</i>
1430 - 1630		<b>SESSION 3 - CURRENT ASPECTS OF BONE BIOLOGY</b> <i>Chaired by: Eleanor Mackie &amp; John Eisman</i>
1430 - 1500	IP3	<b>Osteoblast differentiation</b> Gerard Karsenty
1500 - 1530	IP4	<b>Regulation of bone development - blind genes vs functional adaptation</b> Frank Rauch
1530 - 1600	IP5	<b>PTH and arrestins</b> Serge Ferrari
1600 - 1630	IP6	<b>The bone remodelling compartment: a possible coupling structure</b> Erik Eriksen
1630 - 1700		<i>Afternoon tea</i>
1700 - 1830		<b>SESSION 4 - POSTER SESSION</b>
1700 - 1745		Poster rounds A (EVEN poster numbers)
1745 - 1830		Poster rounds B (ODD poster numbers)
1830 - 2030		<b>Welcome Reception</b> Exhibition & poster area

**THURSDAY, 19 AUGUST 2004**

- 0700 - 0800      **Fun Run**  
*Sponsored by: Merck Sharpe & Dohme*
- 0800 - 1800      Registration
- 0830 - 1030      **SESSION 5 - BODY COMPOSITION AND BONE MASS**  
(Brokenback/Wattagan/Sugarloaf Rooms, Convention Centre, Cypress Lakes Resort)  
*Chaired by: Richard Prince & Rory Clifton-Bligh*
- 0830 - 0900      IP7      **Body weight and bone density**  
Ian Reid
- 0900 - 0925      IP8      **Growth hormone, IGFs and bone: a promise yet unfulfilled**  
Sundeeep Khosla
- 0925 - 0950      IP9      **Y receptors in the central control of bone**  
Paul Baldock
- 0950 - 1000      **FREE ORAL**
- O14      **An association study of BMP4 polymorphisms in postmenopausal women shows effects on bone mass**  
Richard Prince, L Rameshbabu, SG Wilson, IM Dick, FMA Islam & A Devine
- 1000 - 1030      *Morning tea*
- 1030 - 1200      **SESSION 6 - CONCURRENT FREE ORALS (including keynote presentations)**
- Basic:**  
(Brokenback/Wattagan Rooms, Convention Centre, Cypress Lakes Resort)  
*Chaired by: Mark Forwood & Gerald Atkins*
- 1030 - 1040      O15      **PTHrP as a mediator of DNA repair in cancer**  
Matthew Gillespie, N Ilievaska, S Bouralexis, RJ Thomas & TJ Martin
- 1040 - 1050      O16      **Essential role for SIAH1A, but not SIAH2, ubiquitin ligase in bone growth and remodelling**  
Natalie Sims, IJ Frew, JMW Quinn, CR Walkley, RA Dickins, LE Purton, DDL Bowtell & MT Gillespie
- 1050 - 1100      O17      **Dietary omega-3 oils stimulate bone formation in vivo**  
Howard Morris, A Moore, A Mulaibrahimovic, LG Cleland & MJ James
- 1100 - 1110      O18      **M-CSF promotes proliferation of human osteoclast precursors but inhibits resorption by mature osteoclasts and is not necessary for resorption activity**  
Jason Hodge, MA Kirkland & GC Nicholson
- 1110 - 1120      O19      **Three-dimensional morphology of crack growth in cortical bone: implications for bone quality**  
Julia Kuliwaba, KH Zarrinkalam, MAB Wallwork, B Martin & NL Fazzalari
- 1120 - 1130      O20      **Tartrate-resistant acid phosphatase and cathepsin K promoters used to drive CRE recombinase expression in osteoclasts in transgenic mice**  
Maria Chiu, JF McManus, AJ Notini, AI Cassidy, JD Zajac & RA Davey
- 1130 - 1200      IP10      **Keynote Presentation - Genetic manipulation of human bone marrow stromal stem cells for enhanced regeneration of skeletal tissues**  
Stan Gronthos

**Clinical:**

(Sugarloaf/Bimbadeen Rooms, Convention Centre, Cypress Lakes Resort)

*Chaired by: Kong-Wah Ng & Kerrie Sanders*

- 1030 - 1040 O21 **The effect on behaviour and bone mineral density of individualised bone mineral density feedback and educational interventions in premenopausal women: a randomised controlled trial**  
Tania Winzenberg, B Oldenburg, M Riley, S Frendin, L De Wit & G Jones
- 1040 - 1050 O22 **Playing golf is associated with increased vertebral bone size and mass in post menopausal women**  
Shona Bass, J Cook, K Singleton, J Black & RM Daly
- 1050 - 1100 O23 **The heavier they are, the harder they fall?**  
Julie Pasco, MJ Henry, EN Merriman, GC Nicholson & MA Kotowicz
- 1100 - 1110 O24 **Ethnic differences in effect of calcium supplementation on bone density in peripubertal girls in a double-blind, placebo-controlled randomised trial**  
Christine Rodda, M Urdampilletta, J Hu, B Strauss, E Briganti & C Gilfillan
- 1110 - 1120 O25 **Hormone replacement therapy and measures of hip strength: a co-twin analysis**  
Lynda Paton, T Beck, C Nowson, C Margerison, L Semanick, S Kantor & JD Wark
- 1120 - 1130 O26 **Early experience of bisphosphonate use in adolescents with osteonecrosis**  
David Little, RR Brown, E Goergens & CT Cowell
- 1130 - 1200 IP11 **Keynote Presentation – The material and structural basis of bone strength: the anatomy of fracture prevention by remodelling suppressants**  
Ego Seeman  
*Sponsored by: Aventis*
- 1200 - 1330 *Lunch and trade displays / posters even nos.*
- 1230 - 1315 **Lunchtime workshop on clinical audits**  
(Brokenback/Wattagan Rooms, Convention Centre, Cypress Lakes Resort)  
*Sponsored by: Merck Sharp & Dohme*  
*Chaired by: Graeme Jones*
- O27 **The bone protection project: an audit of in hospital investigation and management of osteoporosis following minimal trauma fracture (MTF)**  
Chris Gilfillan
- O28 **RPAH first fracture clinic**  
Lesley Sullivan
- 1330 - 1535 **SESSION 7 - CONTROL OF BONE MINERALISATION**  
(Brokenback/Wattagan/Sugarloaf Rooms, Convention Centre, Cypress Lakes Resort)  
*Chaired by: Markus Seibel & Matthew Gillespie*
- 1330 - 1415 IP12 **Genetic determinants of the spatial restriction of extracellular matrix mineralisation**  
Gerard Karsenty
- 1415 - 1535 **FREE ORALS**
- 1415 - 1425 O29 **OPG mutations that cause idiopathic hyperphosphatasia impair OPG protein secretion**  
Dorit Naot, CA Middleton-Hardie, H Cundy, IR Reid, T Cundy & J Cornish
- 1425 - 1435 O30 **L-amino acid regulation of parathyroid hormone secretion**  
Arthur Conigrave, H-C Mun, L Delbridge, M Wilkinson, SJ Quinn & EM Brown



- 1435 - 1445 O31 **IL-13 inhibits osteoclast differentiation and enhances dendritic cell formation in human CFU-GM cultures**  
Matthew Constable, JM Hodge, CJ Aitken, CM Lopez & GC Nicholson
- 1445 - 1455 O32 **Lactoferrin receptors and signalling pathways in osteoblasts**  
Amy Zhu, A Grey, T Banovic, K Callon, M Watson, J Bracegirdle, K Palmano, IR Reid & J Cornish
- 1455 - 1505 O33 **Bone density relevance and interpretation in Caucasian children aged 9 - 16 years of age: insights from a population based fracture study**  
Graeme Jones & D Ma
- 1505 - 1515 O34 **Asymptomatic vertebral deformity as major risk factor for subsequent fractures and mortality: a 14-year prospective study**  
Tuan Nguyen, C Pongchaiyakul, ND Nguyen, JR Center & JA Eisman
- 1515 - 1525 O35 **Should all older people in residential care receive vitamin D to prevent falls? Results of a randomised trial**  
Leon Flicker, R MacInnis, M Stein, S Scherer, K Mead, C Nowson, J Thomas, C Lowndes, JL Hopper & JD Wark
- 1525 - 1535 O36 **The femoral neck is ellipsoid. Assumption of circularity introduces errors in FN volume, volumetric bone mineral density and bone strength**  
Roger Zebaze, F Welsh, S Iuliano-Burns, A Evans, J Konstantynowicz & E Seeman
- 1535 - 1600 *Afternoon tea*
- 1600 - 1740 **SESSION 8 – CONCURRENT FREE ORALS (including keynote presentations)**
- Basic:**  
(Brokenback/Wattagan Rooms, Convention Centre, Cypress Lakes Resort)  
*Chaired by: Colin Dunstan & Rebecca Mason*
- 1600 - 1610 O37 **Vitamin D metabolism in human osteoblasts**  
Gerald Atkins, PH Anderson, K Welldon, ACW Zannettino, PD O'Loughlin, HA Morris & DM Findlay
- 1610 - 1620 O38 **Prostaglandin E<sub>2</sub> mediates IL-6 production by thrombin-stimulated osteoblasts**  
Charles Pagel, S-J Song, L-H Loh, S Merlin, E Tudor, RN Pike & EJ Mackie
- 1620 - 1630 O39 **Hydrogen peroxide accelerates human osteoclast differentiation and up-regulates thioredoxin**  
Michelle Chacksfield, JM Hodge, CJ Aitken & GC Nicholson
- 1630 - 1640 O40 **Expression of tenascin-w as a potential tenascin-c replacement in the skeleton of tenascin-c knockout mice**  
Brad Morrison, A Scherberich, R Chiquet-Ehrismann, CN Pagel & EJ Mackie
- 1640 - 1650 O41 **N-acetylcysteine inhibits human osteoclast differentiation via modulation of the thioredoxin system**  
Nicola Zimmerman, CJ Aitken, JM Hodge & GC Nicholson
- 1650 - 1700 O42 **Generation of a calcitonin receptor (CTR) LOXP mouse line for targeted deletion in osteoclasts**  
Rachel Davey, JF McManus, AJ Moore, WSM Chiu, AJ Notini, HA Morris, DM Findlay & JD Zajac
- 1700 - 1710 O43 **The effect of lactoferrin on RANKL and OPG mRNA levels in bone cells**  
Pak Cheung Tong, D Naot, U Bava, JM Lin, M Watson, KE Callon, IR Reid & J Cornish



- 1710 - 1740 IP13 **Keynote Presentation - The immune system and bone remodelling**  
Matthew Gillespie
- Clinical:**  
(Sugarloaf/Bimbadeen Rooms, Convention Centre, Cypress Lakes Resort)  
*Chaired by: Kathy Briffa & Geoff Nicholson*
- 1600 - 1610 O44 **Prediction of hip fracture in the elderly by fall-related factors**  
Nguyen Dinh Nguyen, C Pongchaiyakul, JR Center, JA Eisman & TV Nguyen
- 1610 - 1620 O45 **Genetic and environmental contributions to hip strength: in female twins aged 18 and over**  
John Wark, L Paton, TJ Beck, L Semanick, S Kantor, R The & C Nowson
- 1620 - 1630 O46 **The characteristics of bone fractures in Polish adolescents aged 16 - 20 years. Anthropometric, constitutional and environmental conditions**  
Jerzy Konstantynowicz, I Bialokoz-Kalinowska, R Motkowski, P Abramowicz, J Piotrowska-Jastrzebska, J Sienkiewicz & E Seeman
- 1630 - 1640 O47 **Balance performance, muscle strength and gait function in women: effects of genes and environment**  
Natalie El Haber, K Hill, A-M Cassano, JS Cui, R MacInnis, JL Hopper & JD Wark
- 1640 - 1650 O48 **Mechanosensitivity of the femoral neck in females is not increased during the adolescent growth spurt**  
Mark Forwood, DA Bailey, TJ Beck, RL Mirwald, ADG Baxter-Jones & K Uusi-Rasi
- 1650 - 1700 O49 **Quantitative ultrasound of the calcaneus but not biochemical markers of bone turnover are associated with fractures in frail older people with vitamin D deficiency: the FREE study**  
Philip Sambrook, JS Chen, MJ Seibel, LM March, ID Cameron & RG Cumming
- 1700 - 1710 O50 **Loss of femoral neck bone mass with rapid weight loss is more strongly related to baseline fat mass than change in body composition**  
Kerrie Sanders, GK Kiroff & GC Nicholson
- 1710 - 1740 IP14 **Keynote Presentation - Structural and material basis of bone strength and its decay**  
Nick Fazzalari
- 1745 - 1845 **Annual General Meeting**  
(Brokenback/Wattagan Rooms, Convention Centre, Cypress Lakes Resort)
- 1930 - 2300 **Gala Dinner**  
*Sponsored by: Osteoporosis Australia*  
Tamburlaine Winery

**FRIDAY, 20 AUGUST 2004**

(All sessions today will be plenary style and located in the Convention Centre at Cypress Lakes Resort)

0830 - 1310		Registration
0900 - 1030		<b>SESSION 9 - SKELETAL MALIGNANCY AND METABOLIC BONE DISEASE</b> <i>Sponsored by: Novartis</i> <i>Chaired by: Chris Cowell &amp; Michael Hooper</i>
0900 - 0930	IP15	<b>Treatment of advanced prostate cancer</b> Fred Saad
0930 - 1000	IP16	<b>TNF family members and malignancy</b> Colin Dunstan
1000 - 1030	IP17	<b>Bisphosphonate use in orthopaedic therapies</b> David Little
1030 - 1100		<i>Morning tea</i>
1100 - 1310		<b>SESSION 10 - OSTEOPOROSIS THERAPIES</b> <i>Sponsored by: Eli Lilly</i> <i>Chaired by: Mark Kotowicz</i>
1100 - 1130	IP18	<b>Molecular mechanisms in anabolic therapy</b> Jack Martin
1130 - 1200	IP19	<b>Wnt/LRP5 mutations and osteoporosis</b> Serge Ferrari
1200 - 1230	IP20	<b>Treatment of osteoporosis in women - why, whom, when, what drug?</b> Ego Seeman
1230 - 1300	IP21	<b>Monitoring osteoporosis treatment</b> Markus Seibel
1300 - 1310		<b>Concluding remarks</b> Ego Seeman
1310 - 1350		<i>Lunch</i>
1400		<b>Coaches depart for Sydney</b>

## POSTERS

### BASIC

- P1 **ANALYSIS OF HYPERTROPHY AND PHYSIOLOGICAL CELL DEATH IN THREE-DIMENSIONAL CULTURES OF EQUINE FOETAL CHONDROCYTES**  
Yasser Ahmed, L Tatarczuch, K Alkhodair, CN Pagel & EJ Mackie
- P2 **COMPARISON OF OSTEOARTHRITIC AND NORMAL TRABECULAR BONE FROM THE INTERTROCHANTERIC REGION OF THE PROXIMAL FEMUR BY cDNA MICROARRAY ANALYSIS**  
Blair Hopwood, S Gronthos, JS Kuliwaba, DM Findlay & NL Fazzalari
- P3 **CYCLOOXYGENASE-2 (COX-2) INHIBITION PREVENTS OVARIECTOMY-INDUCED BONE LOSS IN ADULT RATS**  
Laura Gregory, WL Kelly & MR Forwood
- P4 **SYNTHESIS OF 1,25(OH)<sub>2</sub>D<sub>3</sub> IN OSTEOBLASTS: AN AUTOCRINE OR PARACRINE ROLE**  
Paul Anderson, K Welldon, DM Findlay, HA Morris & GJ Atkins
- P5 **25-HYDROXYVITAMIN D<sub>3</sub>-1 $\alpha$ -HYDROXYLASE PROMOTER ACTIVITY IN THE RAT OSTEOBLAST-LIKE CELL LINE ROS 17/2.8**  
Andrew Turner, PP Dwivedi, PH Anderson, BK May & HA Morris
- P6 **ENDOCYTOSIS OF LACTOFERRIN BY OSTEOBLASTS**  
Maureen Watson, KE Callon, A Zhu, JM Ross, IR Reid, D Naot, AB Grey & J Cornish
- P7 **OSTEOCLAST RESORPTION OF HYDROXYAPATITE BONE SUBSTITUTE MATERIALS**  
H Lucas, H Zreiqat, KA Gross, C Holding, DM Findlay, M Wallwork & David Haynes
- P8 **PARATHYROID HORMONE PEPTIDE (1-34) DERIVED FROM THE JAPANESE PUFFER FISH STIMULATES BONE FORMATION IN YOUNG MALE RATS**  
Julie McManus, JD Zajac, NA Sims, A Axell, WSM Chiu, AJ Notini, RA Davey, HE MacLean & JA Danks
- P9 **MODIFIED AND UN-MODIFIED GELATINE SPONGES AS A SCAFFOLD FOR OSTEOBLASTS CELLS**  
Ramin Rohanizadeh, MV Swain & RS Mason
- P10 **TRANSGENIC MICE OVER-EXPRESSING 11 $\beta$ -HYDROXYSTEROID DEHYDROGENASE TYPE 2 (11 $\beta$ HSD2) UNDER THE COL1a(I) PROMOTER PROVIDE A MODEL TO TEST DIRECT EFFECTS OF EXOGENOUS CORTICOSTEROIDS ON OSTEOBLASTS**  
KJ Brennan, H Zhou, J de Winter, Colin Dunstan & MJ Seibel
- P11 **MODEL-INDEPENDENT 3D DESCRIPTORS OF CANCELLOUS BONE QUALITY: AN IMPROVED EXPLANATORY MODEL FOR A SURROGATE OF TRABECULAR STRENGTH**  
I Parkinson, Nick Fazzalari & P Sutton-Smith
- P12 **STUDIES ON TRANSCRIPTION FACTORS EXPRESSED DURING ENDOCHONDRAL OSSIFICATION OF EQUINE ARTICULAR-EPIPHYSEAL GROWTH CARTILAGE**  
Khalid Alkhodair, Y Ahmed, CN Pagel & EJ Mackie
- P13 **IS INCREASED BONE TURNOVER CONTRIBUTING TO HUMAN FEMORAL FRACTURES?**  
H Tsangari, Julia Kuliwaba, DM Findlay & NL Fazzalari
- P14 **TRANSACTIVATION RESPONSE OF VDRB1 IS PROMOTER- CELL- AND LIGAND-SPECIFIC**  
Colette Fong, LM Esteban, SJ Allison, JL Flanagan, D Amr, C Liddle, JA Eisman & EM Gardiner
- P15 **MUTATIONAL ANALYSIS CLARIFIES MECHANISM FOR DISTINCT TRANSACTIVATION PROPERTIES OF THE VITAMIN D RECEPTOR, VDRB1**  
Luis Esteban, SJ Allison, C Fong, JL Flanagan, JA Eisman & EM Gardiner

- P16 **PATTERNS OF PHYSIOLOGICAL CELL DEATH IN EQUINE HYPERTROPHIC CHONDROCYTES**  
Liliana Tatarczuch, K Alkhodair, YA Ahmed & EJ Mackie
- P17 **DEVELOPMENT AND USE OF AN ANTIBODY TO FGF23**  
Michiko Mirams, BG Robinson, R Clifton-Bligh, RS Mason & AE Nelson
- P18 **LIMITED EXPOSURE OF OSTEOBLASTS TO HIGH DOSES OF ZOLEDRONIC ACID DOES NOT ADVERSELY AFFECT CELL SURVIVAL OR OSTEOGENIC DIFFERENTIATION**  
Aaron Schindeler, C Godfrey, M McDonald & DG Little
- P19 **WITHDRAWN**
- P20 **THE EFFECTS OF EXOGENOUS GALANIN APPLICATION ON BONE FORMATION IN MOUSE CALVARIA**  
Aaron McDonald, JA Schuijers, AL Gundlach & BL Grills
- P21 **GALANIN AND GALANIN RECEPTOR EXPRESSION IN UMR106.01 CELLS**  
May Yao, JA Schuijers, P-J Shen, AL Gundlach & BL Grills
- P22 **NOVEL ACTIVATORS OF THE CALCIUM-SENSING RECEPTOR ACTIVATE RENAL CALCIUM AND WATER EXCRETION**  
Hiu Chuen Lok & AD Conigrave
- P23 **RECEPTOR ACTIVATOR OF NUCLEAR FACTOR KAPPA B (RANK) AND TUMOUR NECROSIS FACTOR ALPHA (TNF $\alpha$ ) EXPRESSION IN TISSUES OBTAINED FROM SITES OF PERI-IMPLANT OSTEOLYSIS CHARACTERISED BY COMPUTED TOMOGRAPHY (CT)**  
Christopher Holding, KR Shrestha, K Dharmapatri, R Stamenkov, DW Howie, DM Findlay, MA McGee, GJ Atkins & DR Haynes
- P24 **INTERACTION OF GTP-BINDING RAB3D WITH TCTEX-1, A LIGHT CHAIN OF THE CYTOPLASMIC DYEIN MICROTUBULE MOTOR COMPLEX**  
Nathan Pavlos, J Xu, A Carrello, K Kroeger, K Ednet & MH Zheng
- P25 **OSTEOSCLEROSIS IN MICE LACKING RAB3D IS RELATED TO DISRUPTIONS IN POST-TGN VESICLE TRAFFICKING IN OSTEOCLASTS**  
Nathan Pavlos, J Xu, D Riedel, SL Teitelbaum, R Jahn, FP Ross & MH Zheng
- P26 **A HUMAN OSTEOCLAST FORMING CO-CULTURE**  
ACW Zannettino, Tina Vincent, P Kostakis, K Welldon, DM Findlay & GJ Atkins
- P27 **INTERACTION BETWEEN WNT SIGNALLING PATHWAY AND 1,25(OH) $_2$ D $_3$  IN OSTEOBLAST-LIKE MC3T3-E1 CELLS**  
Yanchuan Shi, JA Eisman & EM Gardiner
- P28 **EVIDENCE OF RECIPROCAL REGULATION BETWEEN THE HIGH EXTRACELLULAR CALCIUM AND RANKL SIGNAL TRANSDUCTION PATHWAYS IN RAW CELL DERIVED OSTEOCLASTS**  
Jiake Xu, C Wang, R Han, N Pavlos, T Phan, JH Steer, AJ Bakker, DA Joyce & MH Zheng
- P29 **THE CALCINEURIN-INHIBITOR TACROLIMUS (FK506) IS A POTENT SUPPRESSOR OF HUMAN OSTEOCLAST DIFFERENTIATION**  
Carolina Lopez, JM Hodge, MJ Constable, CJ Aitken & GC Nicholson
- P30 **GENE EXPRESSION PROFILING IN CALLUS TISSUE FROM PATIENTS WITH NEUROFIBROMATOSIS 1-ASSOCIATED PSEUDOARTHROSIS OF THE TIBIA**  
Elisabeth Smith, EM Gardiner, N Elmonoufy, CE Johnston II & R Welch
- P31 **FOUR NOVEL MUTATIONS IN THE CALCIUM-SENSING RECEPTOR ASSOCIATED WITH FAMILIAL HYPOCALCAEMIC HYPERCALCAEMIA**  
Inge Stewart, N Lewis, A McElduff, D Chipps, A Poynten, P Clifton-Bligh, A Conigrave, B Robinson & R Clifton-Bligh

## CLINICAL

- P32 **CALCIUM ABSORPTION AND VITAMIN D METABOLITES IN HIP FRACTURE SUBJECTS**  
Allan Need, M Metz, PD O'Loughlin, M Horowitz & BEC Nordin
- P33 **BONE MINERAL AND BONE SIZE: COMPARISONS OF PREPUBERTAL PACIFIC ISLAND AND EUROPEAN CHILDREN LIVING IN NEW ZEALAND**  
Andrea Grant, FK Gordon, EL Ferguson, SM Williams, T-E Henry, VM Toafa, BE Guthrie & A Goulding
- P34 **SITE-SPECIFIC BONE CHANGES OF YOUNG MILK-AVOIDERS OVER TWO YEARS**  
JEP Rockell, SM Williams, RW Taylor, AM Grant, IE Jones & Ailsa Goulding
- P35 **SKELETAL AGE DEVIATION: ASSOCIATION WITH BONE MASS AND FRACTURE RISK IN CHILDREN**  
Graeme Jones & D Ma
- P36 **AUTOSOMAL DOMINANT PATTERN OF INHERITANCE IN AN AUSTRALIAN FAMILY WITH LOW BONE MINERAL DENSITY**  
Christian Meier, M Kennerson, G Nicholson & MJ Seibel
- P37 **A COMPARISON OF HEALTHY, YOUNG ADULT MALE VERSUS FEMALE BROADBAND ULTRASOUND ATTENUATION OF THE CALCANEUS VIA QUANTITATIVE ULTRASOUND ANALYSIS**  
BK Weeks & Belinda Beck
- P38 **PERSISTENCE WITH RISEDRONATE TREATMENT IN THE ACTNOW™ PATIENT SUPPORT PROGRAMME**  
James Robertson & S McKechnie
- P39 **GENDER DIFFERENCES IN RELATIONSHIPS BETWEEN BODY COMPOSITION COMPONENTS, THEIR DISTRIBUTION AND BONE MINERAL DENSITY: AN OPPOSITE SEX TWIN STUDY**  
Joanna Makovey, P Sambrook & V Naganathan
- P40 **IMPLEMENTATION OF AN EVIDENCE-BASED PHYSIOTHERAPY SERVICE FOR OSTEOPOROSIS**  
Thorlene Egerton, SL Mitchell & G Creed
- P41 **DETAILED ANALYSIS OF RISK FACTORS FOR BONE LOSS IN AN AUSTRALIAN CROHN'S DISEASE (CD) POPULATION**  
Naomi Lee, G Radford-Smith, J Wong, M Forwood & D Taaffe
- P42 **SIMILAR TRUNK LENGTH BUT SHORTER LEG LENGTH IN CHINESE THAN CAUCASIANS: IMPLICATION FOR RACIAL DIFFERENCES IN HIP FRACTURE RATES**  
XF Wang, Yunbo Duan & E Seeman
- P43 **THE FRACTURE RISK INDEX AND BMD AS PREDICTORS OF VERTEBRAL STRUCTURAL FAILURE**  
Yunbo Duan, F Duboeuf, F Munoz, PD Delmas & E Seeman
- P44 **INTRA-VERTEBRAL BONE MINERAL DENSITY ASSESSMENT USING DXA: A PILOT STUDY**  
Andrew Briggs, JD Wark, S Kantor, N Fazzalari, AM Greig & KL Bennell
- P45 **INTRA-RATER AND INTER-RATER PRECISION OF MEASURING APPARENT BONE MINERAL DENSITY IN VERTEBRAL SUBREGIONS USING SUPINE LATERAL DUAL ENERGY X-RAY ABSORPTIOMETRY (DXA) IN VIVO**  
Andrew Briggs, JD Wark, S Kantor, R Son Teh, AM Greig & KL Bennell
- P46 **WITHDRAWN**
- P47 **EDUCATING MOTHERS CAN ALTER CHILDREN'S OSTEOPOROSIS PREVENTIVE BEHAVIOURS**  
Tania Winzenberg, B Oldenburg, S Frenedin, L De Wit & G Jones

- P48 **EVALUATION OF A PHARMACIST PERFORMING OSTEOPOROSIS SCREENING IN RURAL PHARMACIES USING QUANTITATIVE HEEL ULTRASOUND (QUS)**  
M Naunton, GM Peterson & Graeme Jones
- P49 **ZOLEDRONIC ACID PRODUCES HIGHER AND MORE RAPID THERAPEUTIC RESPONSE RATES VERSUS RISEDRONATE IN PATIENTS WITH PAGET'S DISEASE**  
Ian Reid, J Brown, D Hosking, W Fraser, K Lyles, P Hunt, NS Levitt, G Tsoukas, P Richardson, M Luchi, Y Saidi, G Su, K Zelenakas & P Miller
- P50 **INCREASED BODY WEIGHT IN PRIMARY HYPERPARATHYROIDISM: IMPLICATIONS FOR DISEASE ASSOCIATIONS**  
Mark Bolland, AB Grey, GD Gamble & IR Reid
- P51 **ANTI-EPILEPTIC DRUG USERS HAVE AN INCREASED RELATIVE PROPORTION OF ABDOMINAL FAT AS DETERMINED BY DUAL ENERGY X-RAY ABSORPTIOMETRY (DEXA): A USAGE-DISCORDANT FEMALE TWIN AND MATCHED SISTER STUDY**  
Sandra Petty, L Paton, S Kantor, TJ O'Brien & JD Wark
- P52 **BONE DENSITY, FRACTURES AND THE DEFINITION OF OSTEOPOROSIS**  
Chris Nordin
- P53 **LONGITUDINAL STUDY OF BONE-RELATED BIOCHEMICAL VARIABLES ACROSS THE MENOPAUSE**  
Chris Nordin, JM Wishart, PM Clifton, R McArthur, F Scopacasa, AG Need, HA Morris, PD O'Loughlin & M Horowitz
- P54 **THE MINERAL MASS AND EXTERNAL DIMENSIONS OF THE FEMORAL NECK ARE DISSOCIATED BECAUSE OF THE DIFFERING BEHAVIOUR OF THE PERIOSTEAL AND ENDOCORTICAL ENVELOPES**  
Roger Zebaze, G Maalouf & E Seeman
- P55 **A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, MULTI-CENTRE EVALUATION OF THE EFFICACY AND SAFETY OF ZOLEDRONATE (4MG THREE MONTHLY), ADMINISTERED INTRAVENOUSLY, TO PATIENTS WITH  $\beta$ -THALASSAEMIA-ASSOCIATED OSTEOPAENIA: 12 MONTH INTERIM ANALYSIS**  
Christopher Gilfillan, BJ Strauss, C Rodda, D Bowden, A-M Kean, M Obaid & B Crawford
- P56 **FRAGILITY FRACTURES IN FRANKSTON: THE FAILURE OF MANAGEMENT OF OSTEOPOROSIS IN OUTER METROPOLITAN MELBOURNE**  
K Quick, S Varadarajan, D Dutta, S Morris & Christopher Gilfillan
- P57 **BALANCE, GAIT AND STRENGTH CHANGES IN 45-78 YEAR OLD HEALTHY WOMEN: A FOLLOW UP STUDY**  
Natalie El Haber, K Hill, A-M Cassano, LM Paton, R MacInnis, JL Hopper & JD Wark
- P58 **THE EFFECT OF AN INPATIENT FRACTURE PROTOCOL ON PRESCRIPTION OF OSTEOPOROSIS THERAPY**  
Sandi Warr, T Greenaway, E Francis & G Jones
- P59 **IN VIVO PRECISION OF DXA-DERIVED HIP STRUCTURAL ANALYSIS VARIABLES UNDER CLINICAL CONDITIONS: COMPARISON WITH CONVENTIONAL BMD USING IDENTICAL DXA SCANS**  
Ben Khoo, TJ Beck & RI Price
- P60 **CONVERSION OF LUNAR SPINE BMD TO HOLOGIC UNITS AT NON STANDARD VERTEBRAL REGIONS OF INTEREST**  
Beverley White, M Hooper, M Henry, G Nicholson & N Pocock

- P61 **LIMITED RESIDUAL BENEFITS OF CALCIUM SUPPLEMENTATION ON BONE MASS ACCRUAL IN PREPUBERTAL CHILDREN ONE YEAR AFTER THE CESSATION OF TREATMENT**  
Sandra Iuliano-Burns, A Evans, X-F Wang, S Matthews & E Seeman
- P62 **TRENDS IN PREVALENCE OF OSTEOPOROSIS IN SOUTH AUSTRALIA AND EFFECT ON QUALITY OF LIFE**  
T Gill, A Taylor, P Phillips, G Leach & Pauline Kelly
- P63 **BONE STIFFNESS REDUCTION ASSOCIATED WITH REMODELING OF ADULT EQUINE P1 BONE MEASURED BY ULTRASOUND SPEED**  
Zafirir Bechor, S Toulson, B Kehoe, EJ Mackie & HMS Davies
- P64 **SITE AND TIMING OF BONE RESPONSE TO TURNING EXERCISE IN THE DISTAL FORELIMB OF ADULT HORSES**  
Zafirir Bechor, J Merritt & HMS Davies
- P65 **EVALUATION OF A CARE PATHWAY TO IMPROVE THE DIAGNOSIS AND TREATMENT OF OSTEOPOROSIS IN PATIENTS WITH LOW TRAUMA FRACTURE**  
J Whitham, C Gibb, Pauline Kelly & J Pink
- P66 **DECREASED FEMORAL NECK BONE DENSITY WITH INCREASED NECK SECTION MODULUS, A DECADE FOLLOWING ATTAINMENT OF PEAK BONE DENSITY; A PROSPECTIVE HIP STRUCTURAL ANALYSIS STUDY**  
Roger Price, NK Briffa, TJ Beck, AL Mein, BCC Khoo, RL Prince & SS Dhaliwal
- P67 **A LONGITUDINAL STUDY OF EXERCISE EFFECTS ON BONE MASS AND STRUCTURE IN PRE- AND EARLY- PUBERTAL FEMALE NOVICE DANCERS AND CONTROLS**  
Bernadette Matthews, KL Bennell, HA McKay, KM Khan & JD Wark
- P68 **“DANCING FOR BONE HEALTH”: A 3-YEAR LONGITUDINAL STUDY OF EXERCISE EFFECTS ON BONE MINERAL ACCRUAL ACROSS PUBERTY IN FEMALES**  
Bernadette Matthews, KL Bennell, HA McKay, KM Khan, ADG Baxter-Jones, RL Mirwald & JD Wark
- P69 **COMPARISON OF LOWER LIMB STRENGTH, BALANCE, GAIT STABILITY VALUES BETWEEN ASIAN AUSTRALIAN AND CAUCASIAN AUSTRALIAN WOMEN**  
TN Hutabarat, N El Haber, EL Bond, K Hill, Lynda Paton & JD Wark
- P70 **PRECISION AND ACCURACY OF AUTOMATED VERSUS MANUAL HIP STRENGTH ANALYSIS IN YOUNG ADULTS**  
Cynthia Ong, HG Ahlborg, TV Nguyen & NA Pocock
- P71 **CONCORDANCE OF AUTOMATED AND MANUAL HIP GEOMETRY ESTIMATION IN OLDER ADULTS**  
Cynthia Ong, TV Nguyen & NA Pocock
- P72 **COMPARABILITY OF NORMATIVE PAEDIATRIC BONE DENSITY DATA**  
Julie Briody, M Henry, A Goulding, G Jones, R Howman-Giles & N Pocock
- P73 **INTER MANUFACTURER CONVERSION OF L2-L4 BONE DENSITY IN THE PAEDIATRIC POPULATION**  
Madeleine Thompson, J Briody, R Howman-Giles & N Pocock
- P74 **SAFETY AND EFFICACY OF IMI CHOLECALCIFEROL FOR VITAMIN D DEFICIENCY**  
Terry Diamond, P Rohl & M Meerkin
- P75 **OSTEOPOROSIS AND SPINAL FRACTURES IN MEN WITH PROSTATE CANCER: RISK FACTORS AND THE EFFECTS OF ANDROGEN DEPRIVATION THERAPY**  
Terry Diamond, J Bucci, JH Kersley, P Aslan, WB Lynch & C Bryant

- P76 **VITAMIN D AND PARATHYROID HORMONE LEVELS PREDICT FALLS RISK IN OLDER WOMEN**  
Meaghan Read, GC Nicholson, MA Kotowicz, JA Pasco & KM Sanders
- P77 **QUANTIFICATION OF METAPHYSEAL REMODELLING IN CHILDREN TREATED WITH BIPHOSPHONATES**  
David Little, K Ward & CT Cowell
- P78 **BONE TURNOVER MARKERS IN ELDERLY MEN AND THEIR RELATIONSHIPS TO PROSPECTIVE CHANGE IN BONE MINERAL DENSITY**  
Tuan Nguyen, C Meier, JR Center, JA Eisman & M Seibel
- P79 **EFFECTS OF BIPHOSPHONATES ON HIP FRACTURE RISK REDUCTION: A BAYESIAN ANALYSIS OF CLINICAL TRIALS**  
Nguyen Nguyen, JA Eisman & TV Nguyen
- P80 **IMPACT OF WITHIN-SUBJECT VARIABILITY ON THE ASSESSMENT OF CHANGE IN BONE TURNOVER MARKERS**  
Tuan Nguyen, C Meier, JR Center, JA Eisman & M Seibel
- P81 **LONG-TERM BONE LOSS IN MEN AND WOMEN: EFFECTS OF QUADRICEPS STRENGTH AND BODY WEIGHT**  
Tuan Nguyen, ND Nguyen, JR Center & JA Eisman
- P82 **SMOKING AS A MAJOR OSTEOPOROSIS RISK FACTOR AMONG IRANIAN AUSTRALIAN WOMEN**  
Azam Baheiraei, NA Pocock, JE Ritchie, JA Eisman & TV Nguyen
- P83 **A CAUSAL MODEL ANALYSIS AND OSTEOPOROSIS PREVENTION**  
Azam Baheiraei, JE Ritchie, JA Eisman & TV Nguyen
- P84 **THE CLINICAL EFFICACY OF THREE-DIMENSIONAL RECONSTRUCTIONS OF TWO-DIMENSIONAL MR IMAGES: EVALUATION IN A SIMULATED TIBIAL PLATEAU DEPRESSION FRACTURE MODEL**  
Andrew Kurmis & JP Slavotinek
- P85 **WITHDRAWN**
- P86 **BONE MASS AND ESTROGEN RECEPTOR STATUS IN WOMEN WITH BREAST CANCER**  
Kerrie Sanders, B Ekanayake, GC Nicholson, MJ Henry, MA Kotowicz, JA Pasco & DA Watters
- P87 **BARRIERS TO EFFECTIVE MANAGEMENT OF OSTEOPOROSIS IN MODERATE AND MINIMAL TRAUMA FRACTURES: A PROSPECTIVE STUDY**  
Dana Bliuc, CR Ong, JA Eisman & JR Center
- P88 **BMD-INDEPENDENT CONTRIBUTION OF HIP STRENGTH INDICES TO HIP FRACTURE RISK IN ELDERLY MEN AND WOMEN**  
Henrik Ahlborg, ND Nguyen, TV Nguyen, JR Center & JA Eisman
- P89 **DESIGN AND PERFORMANCE TESTING OF A NEW BONE-EQUIVALENT CORTICAL SHELL PHANTOM: COMPARATIVE MEASUREMENTS OF ITS STRUCTURAL GEOMETRY DERIVED FROM DXA AND pQCT**  
Ben Khoo, TJ Beck, B Turk & RI Price
- P90 **DEPRESSION AND BONE MINERAL DENSITY IN A COMMUNITY SAMPLE: GEELONG OSTEOPOROSIS STUDY**  
Felice Jacka, JA Pasco, MJ Henry, MA Kotowicz, GC Nicholson & M Berk
- P91 **CLINICAL EXPERIENCE WITH ZOLEDRONIC ACID IN OSTEOPOROSIS**  
D Hughes, B White, B Crawford & Michael Hooper



- P92  **$\beta$ -BLOCKERS REDUCE BONE RESORPTION MARKER IN PERIMENOPAUSAL WOMEN: GEELONG OSTEOPOROSIS STUDY**  
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