

# *Making Connections in Bone Research*

ASBMR 2010 Annual Meeting October 15-19, 2010  
Metro Toronto Convention Centre/South Building • Toronto, Ontario, Canada



## Preliminary Program

# Making Connections in Bone Research

Please join us for the ASBMR 2010 Annual Meeting, Friday, October 15, through Tuesday, October 19, 2010 at the Metro Toronto Convention Centre/South Building. In keeping with the tradition of the American Society for Bone and Mineral Research, Program Co-Chairs Vicki Rosen, Ph.D. and Dolores Shoback, M.D. have developed an outstanding scientific program showcasing the latest in research, technology and treatment in bone and mineral science.

## Cutting-Edge Science

The ASBMR 2010 Annual Meeting features more than 100 scientific sessions highlighting the most recent advancements in basic, translational and clinical research. Featured on this year's program are Dr. Ronald Evans from the Salk Institute who will deliver this year's Gerald D. Aurbach Lecture on *PPARs: Tackling Frailty* and Benoit De Crombrughe, M.D. who will present the Louis V. Avioli Lecture on *Transcriptional Control of Skeletogenesis*.

The meeting opens with a plenary symposium on *Osteoimmunology – New Pathways Invading Bone* followed by the ASBMR-ECTS clinical debate titled *Too Much Suppression of Turnover Is Bad for Bone*, the newly added oral poster session and the Welcome Reception/Plenary Poster Session. The following days are filled with Symposia, State-of-the-Art Lectures and Clinical Roundtables on such stimulating topics as genomic profiling, atypical femoral fractures, gene regulation, the Institute of Medicine's report on Vitamin D recommendations and more.

Plus, this year marks the 60th Anniversary of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). On Sunday, October 17 at 5:30 pm we will celebrate by having a very special anniversary symposium followed by a wine and cheese reception.

## Professional Development & Networking

Once again, this year's program includes professional development sessions focusing on practical topics such as grant writing techniques and work-life balance. In addition, fifteen Working Groups and one Industry-Supported Symposia (ISS) will supplement the ASBMR Official Program.

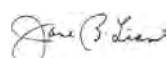
Opportunities to connect and engage with colleagues are key success factors in sharing and collaborating. The ASBMR 2010 Annual Meeting provides many opportunities including the Welcome Reception and Plenary Poster Session on Friday, October 15, and the ever-popular social event on Saturday night, October 16, featuring dessert, dancing and entertainment.

To foster stronger links among Young Investigators and under-represented minorities, they are invited to special Happy Hours that will take place on Friday, October 15 after the Welcome Reception. And, we are pleased that the ASBMR Women in Bone and Mineral Research Committee again will be hosting the speed networking event on Friday evening October 15.

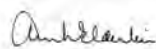
We hope you plan to join us for the ASBMR 2010 Annual Meeting. Be sure to [register](#) by July 22, 2010 to receive the advance registration discount, adding even further value to this premier meeting in bone and mineral science.

We look forward to welcoming you in Toronto!

Sincerely,



Jane B. Lian, Ph.D.  
President



Ann L. Elderkin, P.A.  
Executive Director



Jane B. Lian, Ph.D.  
President



Ann L. Elderkin, P.A.  
Executive Director

## 2010 Scientific Program Committee

### ASBMR President

Jane B. Lian, Ph.D., University of Massachusetts Medical School (USA)

### Program Co-Chairs

Vicki Rosen, Ph.D., Harvard School of Dental Medicine (USA)

Dolores Shoback, M.D., VA Medical Center and University of California, San Francisco (USA)

# General Meeting Information

## Continuing Medical Education (CME)

This educational activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the Institute for the Advancement of Human Behavior (IAHB) and the American Society for Bone and Mineral Research (ASBMR). The IAHB is accredited by the ACCME to provide continuing medical education for physicians.

### AMA PRA Statement

*IAHB designates this educational activity for a maximum of 33.75 AMA PRA Category 1 Credits™.* Physicians should only claim credit commensurate with the extent of their participation in the activity.

### Online CME

The CME online evaluation will be available beginning Tuesday, October 19. *Please Note:* There will be a \$50 fee per application. This fee can be paid when you register for the Annual Meeting. Please check the Continuing Medical Education Credits (CME) box under Optional Events and Products. Should you have questions regarding the online CME evaluation, contact Jillian Davis at +1 (651) 789-3722 or [jillian@cmehelp.com](mailto:jillian@cmehelp.com).

## Disclosure Policy

The American Society of Bone and Mineral Research is committed to ensuring the balance, independence, objectivity and scientific rigor of all its individually sponsored or industry-supported educational activities. Accordingly, the ASBMR adheres to the requirement set by ACCME that audiences at jointly sponsored educational programs be informed of a presenter's (speaker, faculty, author or planner) academic and professional affiliations, and the disclosure of the existence of any significant financial interest or other relationship a presenter or their spouse has with any proprietary entity over the past twelve months producing, marketing, re-selling or distributing health care goods or services, consumed by, or used on patients, with the exemption of non-profit or government organizations and non-health care related

## Intended Audience

The 2010 ASBMR Official Program is designed for researchers, physicians, and other health and allied health professionals with interests in:

- ▶ Biomechanics
- ▶ Cell Biology
- ▶ Dentistry
- ▶ Endocrinology
- ▶ Epidemiology
- ▶ Genetics
- ▶ Internal Medicine
- ▶ Metabolism
- ▶ Musculoskeletal Research
- ▶ Molecular Biology
- ▶ Molecular Genetics
- ▶ Nephrology
- ▶ Orthopaedics
- ▶ Pathology
- ▶ Pharmacology
- ▶ Physiology
- ▶ Rheumatology

## Meeting Objectives

Upon returning home from the meeting, participants should be able to:

- ▶ Discuss the most current and significant advances in biomedical and clinical research in bone and mineral metabolism, specifically in the areas of osteoimmunology, mineral metabolism, genetics, stem cells, osteoporosis, metabolic bone diseases and therapeutics.
- ▶ Better understand the interrelationship among basic research, clinical research and patient care.
- ▶ Improve their ability to treat and care for their patients through an enhanced knowledge of osteoporosis, other diseases of bone, basic bone biology and its correlation to mineral metabolism.
- ▶ Develop new and enhanced strategies for the diagnosis and treatment of patients with disorders of bone and mineral metabolism.

# General Meeting Information

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companies. When an unlabeled use of a commercial product, or an investigational use not yet approved for any purpose, is discussed during the presentation, it is required that presenters disclose that the product is not labeled for the use under discussion or that the product is still investigational. This policy allows the listener/attendee to be fully knowledgeable in evaluating the information being presented. The On-Site Program book will note those speakers who have disclosed relationships, including the nature of the relationship and the associated commercial entity.

Disclosure should include any relationship that may bias one's presentation or which, if known, could give the perception of bias. This includes relevant financial relationships of a spouse or partner. Disclosures will be printed in the program materials. These situations may include, but are not limited to: 1) Stock options or bond holdings in a for-profit corporation or self-directed pension plan; 2) Research grants; 3) Employment (full or part-time); 4) Ownership or partnership; 5) Consulting fees or other remuneration (payment); 6) Non-remunerative positions of influence such as officer, board member, trustee or public spokesperson; 7) Receipt of royalties; 8) Speaker's bureau; 9) Other.

## ASBMR Expectation of Authors and Presenters

Through ASBMR meetings, the Society promotes excellence in bone and mineral research. To that end, ASBMR expects that all authors and presenters affiliated with the ASBMR 2010 Annual Meeting and the 2010 Ancillary Program will provide informative and fully accurate content that reflects the highest level of scientific rigor and integrity.

The ASBMR depends upon the honesty of the authors and presenters and relies on their assertions that they have had sufficient full access to the data and are convinced of its reliability.

Furthermore, the ASBMR expects that:

- ▶ Authors and presenters will disclose any conflicts of interest, real or perceived.
- ▶ Authors of an abstract describing a study funded by an organization with a proprietary or financial interest must affirm that they had full access to

all the data in the study. By so doing, they accept complete responsibility for the integrity of the data and the accuracy of the data analysis.

- ▶ The content of abstracts, presentations, slides and reference materials must remain the ultimate responsibility of the author(s) or faculty.
- ▶ The planning, content and execution of abstracts, speaker presentations, slides, abstracts and reference materials should be free from corporate influence, bias or control.
- ▶ All authors and presenters (invited and abstracts-based oral and poster presenters) should give a balanced view of therapeutic options by providing several treatment options, whenever possible, and by always citing the best available evidence.
- ▶ In addition, ASBMR meeting evaluations will seek feedback regarding commercial bias at ASBMR Annual Meeting sessions, including the 2010 Ancillary Program.

## Annual Meeting Resource Materials

### 2010 Abstracts Book

The 2010 Abstracts Book is published as a supplement of the *Journal of Bone and Mineral Research* (JBMR).

A limited number of the 2010 Abstracts books will be printed and available for purchase and pick-up on site in Toronto. To obtain a copy, you must order it in advance. The price of the book is \$25 USD. The 2010 Abstracts book will also be available in PDF format for download in advance of the meeting at no charge to members and meeting attendees.

### 2010 Abstracts on CD-ROM

*Supported by an educational grant from Amgen, Inc.*

As a registered meeting attendee, you will receive a copy of the ASBMR 2010 Annual Meeting abstracts on CD-ROM, allowing you the ability to do customized searches and review of abstracts while at the meeting. The Abstracts on CD-ROM will be distributed to attendees in their Annual Meeting delegate bags.

# General Meeting Information

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## 2010 Abstracts On-line Program

Only members and pre-registered Annual Meeting attendees will be able to access the 2010 Abstracts On-line Program before the Annual Meeting. This tool can be used to help you search for and review abstract presentations, as well as plan your meeting itinerary. You may access this convenient program via the ASBMR website at [www.asbmr.org](http://www.asbmr.org) in mid-August 2010.

## Meet-the-Proffessor Handout Booklet

*Supported by an educational grant from Eli Lilly and Company.*

The Meet-the-Proffessor Handout Booklet contains all the handouts supplied by the professors in one convenient booklet. The booklet can be purchased in advance through the registration form for \$10 USD to be picked up on site at the Convention Centre.

## On-Site Program Book

*Supported by an educational grant from Eli Lilly and Company*

As a registered meeting attendee you will receive an On-Site Program book along with other meeting materials once you arrive at the Convention Centre and check in at the registration counters. This book



contains a detailed schedule and description of the events for the entire meeting, including the Ancillary Program.

## Ancillary Meetings

If you are looking to connect with colleagues on a special topic or reconnect with former classmates for a mini reunion, we have a process that might help you. Applications need to be submitted on or before July 23, 2010, to avoid late fees and space is limited. For more information visit [www.asbmr.org](http://www.asbmr.org).

## Join ASBMR Today to Take Advantage of these Member-Only Benefits!

- ♦ Save 40% or more off the non-member Annual Meeting registration rate
- ♦ Gain full online access to the Annual Meeting Abstracts prior to the meeting
- ♦ Receive periodic updates on all the latest networking opportunities and events occurring at this year's Annual Meeting
- ♦ Get full online access to both the *Journal of Bone and Mineral Research* and *Primer*
- ♦ View the latest employment opportunities in the field via the online Career Center

To apply for membership, visit [www.asbmr.org](http://www.asbmr.org).





# Networking Opportunities

## NIH and CIHR-IMHA Lounges

Representatives from the U.S. National Institutes of Health (NIH), the Center for Scientific Review (CSR), and Canadian Institutes of Health Research-Institute of Musculoskeletal Health and Arthritis (CIHR-IMHA), will be in a special section of the ASBMR Networking Center to discuss grant proposals and ideas. Program staff from the following institutes and centers will be available to talk with you:

- ▶ National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)
- ▶ National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
- ▶ National Cancer Institute (NCI)
- ▶ National Institute of Dental and Craniofacial Research (NIDCR)
- ▶ National Institute on Aging (NIA)
- ▶ National Institute of Child Health and Human Development (NICHD)
- ▶ Center for Scientific Review (CSR)
- ▶ Canadian Institutes of Health Research-Institute of Musculoskeletal Health and Arthritis (CIHR-IMHA)

## Young Investigator Lounge

All young investigator attendees are invited to drop by the Young Investigator Lounge located in the Exhibit Hall. Don't miss this opportunity to make new friends and expand your network of colleagues.

## Not-to-Miss Events

### Friday, October 15

#### Welcome Reception and Plenary Poster Session 5:45 pm – 7:00 pm

Attendees and registered guests are invited to meet and mingle during our Wine and Cheese Welcome Reception and Plenary Poster Session in Exhibit Hall E of the Metro Toronto Convention Centre/South Building. Simply display your badge for admission. Guests may purchase a badge for \$35 USD at the ASBMR Registration Counter for entrance to the Welcome Reception. A special area of the Exhibit Hall will be set aside for Young Investigators and Minority Investigators to interact during this reception.

## ASBMR Networking Center

**NEW THIS YEAR!!!** The ASBMR Networking Center provides a central gathering place for people and resources to converge in conversations and other communications. The Center provides a place to:

- ▶ Check your email through either the **Cyber Café\*** or the **WiFi Lounge**.
- ▶ Receive guidance on navigating the conference or information on the Society in the **Membership Area**.
- ▶ Find other Residents, Students, Fellows or Young Investigators in the **Young Investigator Lounge**.
- ▶ Meet with **National Institutes of Health (NIH)** or the **Canadian Institutes of Health Research (CIHR)** representatives.
- ▶ Peruse **available jobs** and meet with **prospective employers**.

*\*Supported on Saturday and Sunday by an educational grant from Enobia Pharmaceuticals, Inc.*

#### New Investigator / New Member / First-time Attendee Reception 5:45 pm – 7:00 pm

*Sponsored by the ASBMR Membership  
Development Committee*

*Supported by an educational grant from Amgen, Inc.*

The ASBMR Membership Development Committee and Young Investigator Subcommittee members will be in attendance for this meet-and-greet networking event. The event has been organized to promote interactions among young investigators and ASBMR leadership so that they may begin building a network of career-long contacts. The New Investigator Reception will be held concurrently with the Welcome Reception and the Plenary Poster Session in a designated area adjacent to the ASBMR Networking Center in the Exhibit Hall at the Metro Toronto Convention Centre/South Building.

# Networking Opportunities

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## Friday October 15, *continued*

### **Young Investigator Happy Hour**

**7:00 pm – 8:00 pm**

*Sponsored by the ASBMR Membership Development Committee*

This cash-bar event is open to Young Investigators who want to continue to build connections with peers in a fun and informal setting. Sign up to attend when you [register](#) for the meeting!

### **Minority Investigator Reception**

**5:45 pm – 7:00 pm**

*Sponsored by the ASBMR Membership Development Committee*

The purpose of this event is to provide attendees with the opportunity to meet other attendees and ASBMR leadership, including the ASBMR Minority Subcommittee members, creating an environment of interaction. The Minority Investigator Reception will be held concurrently with the Welcome Reception and the Plenary Poster Session in a designated area adjacent to the ASBMR Networking Center in the Exhibit Hall of the Metro Toronto Convention Centre/ South Building.

### **Minority Investigator Happy Hour**

**7:00 pm – 8:00 pm**

*Sponsored by the ASBMR Membership Development Center*

Investigators are invited to attend this cash-bar event which is open to under-represented minority investigators who want to continue fostering new professional relationships in a fun and informal setting. Sign up to attend when you [register](#) for the meeting!



### **Special Event: Speed Networking**

**8:00 pm – 10:00 pm**

**Registration Fee: \$35 USD  
(\$15 USD students/trainees)**

*Sponsored by the ASBMR Women in Bone and Mineral Research Committee*

*Supported by an educational grant from Chugai Pharmaceutical Co., Ltd.*

The ASBMR Women in Bone and Mineral Research Committee (WBMRC) is sponsoring this Speed Networking event, providing you with a networking opportunity like no other. In 60 minutes, you will have an opportunity to meet more than 10 researchers and in four minutes learn about them and introduce yourself. Come prepared with a two-minute introduction that “sells” who you are and what you do. This is an opportunity to learn networking skills and meet members in all career stages. You will make key connections that are otherwise difficult to make in meetings as large as ASBMR. Come join the fun and expand your network! A reception will follow the event.

# Networking Opportunities

*Continued from page 7*

## Saturday, October 16

### **ASBMR Networking Breakfast** **6:45 am - 8:00 am**

*Sponsored by the ASBMR Membership  
Development Committee*

*Supported by an educational grant from Chugai  
Pharmaceutical Co., Ltd.*

New Investigators (early-career stage), new ASBMR members and young and under-represented minority investigators are invited to join the ASBMR Membership Development Committee and colleagues for an informational breakfast. New Investigators and first-time attendees are encouraged to pick up a "New Investigator" or "First Time Attendee" ribbon, which will be distributed at the entrance to the room. You will want to get to the networking breakfast early to be eligible to win free tickets for the social event. The raffle drawing will take place at the beginning of the event and you will need to be present to win. Breakfast will be provided.

### **ASBMR Annual Town Hall Meeting and Reception** **6:00 pm – 7:30 pm**

You are invited to attend the ASBMR Town Hall Meeting and Reception at which you will learn about the Society, including the year in review, planned activities, strategic directions and leadership opportunities. The ASBMR Town Hall Meeting will be held at the Metro Toronto Convention Centre/South Building. Come learn more about ASBMR, meet with ASBMR leadership, ask questions during an open mike period and enjoy a wine and cheese reception.

### **Dancing with the ASBMR Stars – Social Event** **8:30 pm – 11:30 pm** **Fairmont Royal York Hotel**

You saw it first on American television and now "bone docs" will be cutting loose on the dance floor. What better way to catch up with current friends and meet new ones than with some drinks, some sweets, a little dancing and a lot of fun.

Toronto's historic Fairmont Royal York ballrooms have hosted the likes of Her Majesty Queen Elizabeth II, Frank Sinatra, Cary Grant, Tina Turner and now ASBMR. The red carpet will be rolled out, so grab your business cards, put on your dancing shoes and come prepared to converse and dance with the ASBMR stars.

Enjoy dinner at one of Toronto's fabulous restaurants and then join us for dessert, drinks, music and a dance competition at the beautiful Fairmont Royal York Hotel. Tickets are \$30 USD. You are encouraged to [purchase tickets](#) in advance when you register online.

## Ongoing Opportunities

### **Meet-the-Professor Sessions**

The Meet-the-Professor Sessions are informal sessions designed to provide an opportunity to interact with experts in an intimate setting and discuss specific clinical and research topics. The sessions will be held Friday through Monday. Please be sure to purchase a Meet-the-Professor Handout Booklet that contains all the handouts supplied by the professors. The booklet can be purchased when you [register](#) for \$10 USD, to be picked up on site at the Convention Centre.

### **Poster Tours**

The Annual Meeting Poster Session Tours will take place during each of the three poster sessions on Saturday, October 16, Sunday, October 17 and Monday, October 18. These poster tours will be guided by a prominent scientist in the bone field to assist attendees to navigate the science within the poster hall. Participants will be able to choose between tours focused on either basic or clinical science. The tours will begin at the ASBMR Networking Center located in the Exhibit Hall in the Metro Toronto Convention Centre/South Building and will last approximately 60 minutes. Please visit the ASBMR website at [www.asbmr.org](http://www.asbmr.org) in mid-August to sign up to attend one of these exciting poster tours.

### **Working Groups**

[Working Groups](#) are small interactive evening sessions organized around focused topics of special interest to you and others you wish to meet in your specific area of study. They are part of the ASBMR Ancillary Program and organized by members independent of the official ASBMR program. Additional tickets are required. See [page 26](#) for topics and speakers.



# Official Scientific Program Overview

*Schedule subject to change*

Friday, October 15 <i>Click on the topics for more information</i>			
9:00 am – 11:00 am	Plenary Symposium I – Osteoimmunology - New Pathways Invading Bone		
11:00 am – 1:00 pm	Special Session for Health Professionals		
11:00 am – 12:00 pm	Meet-the-Professor Sessions		Grant Writing Workshop: Show Me the Money!
12:00 pm – 1:30 pm	Symposium - Tissue Crosstalk in the Developing Skeleton		Symposium - Bone and Kidney: A Dangerous Relationship
1:45 pm – 3:15 pm	Symposium – Tumor Cell Signaling to Bone		Symposium – Treating Osteoporosis in the 21st Century
3:30 pm – 4:45 pm	Welcome & Announcements	Presentation of ASBMR William F. Neuman Award	ASBMR/ECTS Clinical Debate – Too Much Suppression of Turnover Is Bad for Bone
3:45 pm – 4:45 pm	Meet-the-Professor Sessions		
5:00 pm – 5:45 pm	Oral Poster Sessions		
5:45 pm – 7:00 pm	Welcome Reception & Plenary Poster Session	New Investigator/New Member/First-Time Attendee Reception	Minority Investigator Reception
7:15 pm – 10:00 pm	Working Groups		
8:00 pm – 10:00 pm	Special Event - Speed Networking		
Saturday, October 16 <i>Click on the topics for more information</i>			
6:45 am – 8:00 am	ASBMR Networking Breakfast		
8:00 am – 9:40 am	Plenary Symposium II –The Hip Fracture Epidemic		Presentation of ASBMR Gideon A. Rodan Excellence in Mentorship Award & Lawrence G. Raisz Award
9:40 am – 10:00 am	Coffee Break		
10:00 am – 11:30 am	Concurrent Oral Sessions		
11:30 am – 1:30 pm	Poster Session I & Poster Tours		
1:30 pm – 2:30 pm	Clinical Roundtable/Case Conference - Clinical Utility of Genetic Testing Application to Parathyroid Disorders	Meet-the-Professor Sessions	State-of-the-Art Lecture – Genomic Profiling as a Tool for Discovery
2:45 pm – 4:15 pm	Concurrent Oral Sessions		
4:00 pm – 4:30 pm	Coffee Break		
4:30 pm – 6:00 pm	Symposium – Task Force Report on Atypical Femoral Fractures		Symposium - Can We Talk? Cell Communication in the Skeleton
6:00 pm – 7:30 pm	ASBMR Town Hall Meeting and Reception		
8:30 pm – 11:30 pm	ASBMR Social Event – Dancing with the ASBMR Stars		
Sunday, October 17 <i>Click on the topics for more information</i>			
8:00 am – 9:10 am	Gerald D. Aurbach Lecture – PPARs: Tackling Frailty Keynote Speaker: Ronald Evans, Ph.D The Salk Institute for Biological Studies		Presentation of ASBMR Fuller Albright Award & Frederic C. Bartter Award
9:10 am – 9:30 am	Coffee Break		
9:30 am – 11:00 am	Concurrent Oral Sessions		
11:00 am – 1:00 pm	Poster Session II & Poster Tours		
1:00 pm – 2:00 pm	Clinical Roundtable/Case Conference - Disorders of Phosphate Metabolism	Meet-the-Professor Sessions	Career Development: Work/Life Satisfaction
2:15 pm – 3:45 pm	Concurrent Oral Sessions		
3:30 pm – 4:00 pm	Coffee Break		
4:00 pm – 5:30 pm	Symposium – Osteoporosis: Why Do Men Get It? (ASBMR/ECTS Joint Session)		Symposium - Pathways That Modify the Bone Landscape
5:30 pm – 7:00 pm	NIDDK 60th Anniversary Symposium and Reception		
7:15 pm – 10:00 pm	Working Groups		Industry Supported Symposium

# Official Scientific Program Overview

*Schedule subject to change*

*Continued from page 9*

Monday, October 18 <i>Click on the topics for more information</i>			
8:00 am – 9:35 am	Plenary Symposium III – The Periosteum: An Organizer for Bone Formation and Regeneration		Presentation of ASBMR Paula Stern Achievement Award
9:35 am - 10:00 am	Coffee Break		
10:00 am – 11:30 am	Concurrent Oral Sessions		
11:30 am – 1:30 pm	Poster Session III & Poster Tours		
1:30 pm – 2:30 pm	Clinical Roundtable/Case Conference - Secondary Causes of Osteoporosis	Meet-the-Professor Sessions	State-of-the-Art Lecture – Connections Between LRP5, Serotonin and the Skeleton
2:45 pm – 4:15 pm	Concurrent Oral Sessions		
4:00 pm – 4:30 pm	Coffee Break		
4:30 pm – 6:00 pm	Concurrent Oral Sessions		
6:30 pm – 9:30 pm	Working Groups		
Tuesday, October 19 <i>Click on the topics for more information</i>			
8:00 am - 9:30 am	Louis V. Avioli Lecture - Transcriptional Control of Skeletogenesis Keynote Speaker: Benoit de Crombrughe, M.D. M.D. Anderson Cancer Center		Presentation of ASBMR Shirley Hohl Service Award & Louis V. Avioli Memorial Founders Award
9:30 am – 11:00 am	Concurrent Oral Sessions		
9:30 am – 11:00 am	ASBMR/ISCD/NOF Co-sponsored Symposium on Osteonecrosis of the Jaw (ONJ)		
11:00 am – 12:30 pm	State-of-the-Art Lecture- Stem Cells and the Future of Medicine		Symposium – Shining Light on Vitamin D: What is the Evidence for Redefining Vitamin D Sufficiency?

<b>Exhibits Open</b>	
Friday, October 15	5:45 pm – 7:00 pm
Saturday, October 16	9:30 am – 4:30 pm
Sunday, October 17	9:00 am – 4:00 pm
Monday, October 18	9:30 am – 4:30 pm

<b>Poster Viewing Open</b>	
<b>Poster Session I</b> Saturday, October 16	8:00 am – 6:00 pm
<b>Poster Session II</b> Sunday, October 17	8:00 am – 6:00 pm
<b>Poster Session III</b> Monday, October 18	8:00 am – 4:30 pm

# Plenary Lectures

## Gerald D. Aurbach Lecture

**Sunday, October 17**

**8:00 am – 9:00 am**

***PPARs: Tackling Frailty***

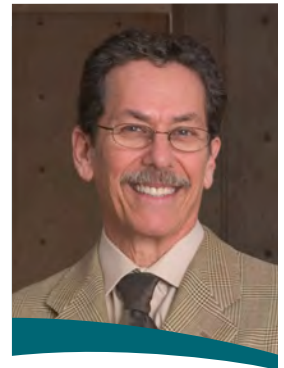
**Ronald M. Evans, Ph.D.**

**The Salk Institute for Biological Studies (USA)**

Dr. Ronald M. Evans is an Investigator at the Howard Hughes Medical Institute and a Professor at the Salk Institute for Biological Studies. He is known for his discoveries and characterization of nuclear hormone receptors, the establishment of the nuclear receptor super family and the elucidation of their universal mechanism of action, a process that governs how lipophilic hormones and drugs regulate diverse developmental and metabolic pathways in animals and humans.

At Salk, Dr. Evans isolated the growth hormone gene to study its transcriptional regulation by steroid and thyroid hormones. These lipid-soluble hormones control fundamental aspects of physiology including sugar, salt and fat metabolism, basal metabolic rate and reproduction. In 1982, with Palmiter and Brinster, he created the first transgenic growth hormone "super-mouse." In 1985, his group cloned and characterized the first nuclear hormone receptor, the human glucocorticoid receptor. His subsequent isolation of the thyroid, mineralocorticoid and retinoic acid (vitamin A) established the existence of the nuclear receptor super family. Though the ligands for nuclear receptors are chemically and biosynthetically distinct, the homology of their receptors revealed the existence of an underlying unity in their mechanism of action. This work led to the principles of DNA recognition, receptor heterodimer formation and the discovery of the DNA coding mechanism for hormone response elements. Over the past ten years, he has focused on the characterization of the so-called "orphan" members of the nuclear receptor family for which no physiologic ligands were known. He isolated the first orphan receptors (ERR1 and 2) as well as the unexpectedly important retinoid X receptor (RXR). He pioneered biochemical and molecular techniques that led to the identification of the RXR ligand 9-cis RA, the first new hormonal lipid since the isolation of aldosterone in 1952. RXR proved to be a Rosetta Stone for puzzling out the identity of a series of unknown receptors which have profound implications for normal physiology, disease pathogenesis and drug discovery. He also isolated and characterized the xenobiotic sensor SXR that acts as a molecular gateway to control the catabolism and clearance of steroids, bile acids, oxidized lipids and numerous prescription drugs.

Evans' discoveries on the nuclear hormone receptors define a unitary signaling pathway and a central paradigm for the control of eukaryotic gene expression. His work established fundamental links between transcription, physiology and medicine and has led to the discovery and development of drugs for cancer and metabolic disease.



**Ronald M. Evans, Ph.D.,**  
The Salk Institute for  
Biological Studies (USA)

# Plenary Lectures

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## Louis V. Avioli Lecture

**Tuesday, October 19**

**8:00 am – 9:00 am**

***Transcriptional Control of Skeletogenesis***

**Benoit de Crombrughe, M.D.**

**University of Texas, M.D. Anderson Cancer Center (USA)**

Benoit de Crombrughe obtained his M.D. degree in Belgium and after a postdoctoral fellowship in the laboratory of Ira Pastan at the National Institutes of Health (NIH), he started his own laboratory at the National Cancer Institute. In the early 80s, he spent a sabbatical year at the Pasteur Institute in Paris and in 1987 became Chair of the Department of Molecular Genetics at The University of Texas M. D. Anderson Cancer Center in Houston. His work made major contributions to the understanding of the role of key transcription factors in skeletogenesis. His studies identified the transcription factor SOX9 as an essential factor for cartilage formation and his laboratory also discovered the transcription factor OSTERIX and characterized its essential role in osteoblast differentiation and bone formation. The more recent studies of de Crombrughe's laboratory are focusing on the postnatal homeostatic control by SOX9 of articular cartilage and of intervertebral discs and on the multiple functions of OSTERIX in the physiology of postnatal bones.

He has mentored numerous graduate students and postdoctoral fellows and is a member of the Belgian Royal Academy of Medicine and an Honorary Fellow of the Royal College of Physicians, United Kingdom.



**Benoit de Crombrughe, M.D.,**  
University of Texas, M.D.  
Anderson Cancer Center (USA)

# Symposia

Symposia are sessions which feature three to four invited talks covering basic and/or clinical topics.

## Friday, October 15

### Plenary Symposium I – Osteoimmunology: New Pathways Invading Bone

9:00 am – 11:00 am

*Supported by an educational grant from  
Eli Lilly and Company*

#### Chairs:

**Joseph Lorenzo, M.D.**, University of Connecticut Health Center (USA)

**Ellen Gravalles, M.D.**, University of Massachusetts Medical School (USA)

*Introduction - Overview of the Field of Osteoimmunology*

**Joseph Lorenzo, M.D.**, University of Connecticut Health Center (USA)

*Positive and Negative Regulators of Osteoclast Differentiation*

**Hiroshi Takayanagi, M.D., Ph.D.**, Tokyo Medical and Dental University (Japan)

*Cytokines and NF-kappa B: Links Between Osteo-immune Cells and Diseases Affecting the Skeleton*

**Brendan Boyce, M.D.**, University of Rochester Medical Center (USA)

*Introduction - Overview of Inflammatory Arthritis and Bone*

**Ellen Gravalles, M.D.**, University of Massachusetts Medical School (USA)

*Induction and Regulation of Inflammatory Bone Loss in Arthritis*

**Georg Schett, M.D.**, Friedrich-Alexander University Medical School (France)

### Symposium - Tissue Crosstalk in the Developing Skeleton

12:00 pm – 1:30 pm

#### Chairs:

**Maurizio Pacifici, Ph.D.**, Thomas Jefferson University (USA)

**Karen Lyons, Ph.D.**, University of California, Los Angeles (USA)

*The Mechanisms That Underlie the Three-dimensional Morphology of Long Bones*

**Eli Zelzer, Ph.D.**, Weizmann Institute (Israel)

*Hypoxia Sensing in Cartilage and Bone Development*

**Ernestina Schipani, M.D., Ph.D.**, Massachusetts General Hospital and Harvard Medical School (USA)

*Co-regulation of Osteoblast Differentiation and Cartilage Vascularization During Endochondral Bone Development*

**Fanxin Long, Ph.D.**, Washington University School of Medicine (USA)

### Symposium – Bone and Kidney: A Dangerous Relationship

12:00 pm – 1:30 pm

#### Chairs:

**Susan Ott, M.D.**, University of Washington Medical Center (USA)

**Justin Silver, M.D., Ph.D.**, Hadassah Hospital (Israel)

*Recharacterization of the CKD:MBD - Its Early Stages*

**Katherine Wesseling, M.D.**, UCLA Medical Center (USA)

*The Roles of Vitamin D and Calcitriol in the CKD: MBD—Are We Overdosing Vitamin D Receptor Analogues?*

**Keith Hruska, M.D.**, Washington University in St. Louis School of Medicine (USA)

*Noninvasive Assessment of Bone Quality in CKD: MBD*

**Mary Leonard, M.D.**, Children's Hospital of Philadelphia (USA)



# Symposia

Continued from page 14

Symposia are sessions which feature three to four invited talks covering basic and/or clinical topics.



## Friday October 15 *continued*

### Symposium - Tumor Cell Signaling to Bone

1:45 pm – 3:15 pm

*Dedicated to the life and memory of  
Gregory R. Mundy, M.D.*

#### Chairs:

**Toshiyuki Yoneda, D.D.S., Ph.D.**, Osaka University  
Graduate School of Dentistry (Japan)

**Katherine Weilbaecher, M.D.**, Washington  
University in St. Louis School of Medicine (USA)

*Src Signaling in Cancer*

**Anna Teti, Ph.D.**, Universite of LAquila (Italy)

*Controlling Morphogenetic Responses in Cancer*

**Jeff Wrana, Ph.D.**, Samuel Lunenfeld Research  
Institute (Canada)

*The Nuclear Microenvironment in Cancer Progression*

**Gary Stein, Ph.D.**, University of Massachusetts  
Medical School (USA)

### Symposium - Treating Osteoporosis in the 21st Century

1:45 pm – 3:15 pm

#### Chairs:

**Suzanne Jan De Beur, M.D.**, Johns Hopkins  
University (USA)

**Serge Livio Ferrari, M.D.**, Geneva University  
Hospital and Faculty of Medicine (Switzerland)

*PTH and Skeletal Anabolism*

**Robert Nissenson, Ph.D.**, VA Medical Center and  
University of California, San Francisco (USA)

*Sclerostin: From Gene Discovery to Bone  
Building Antibodies*

**Chris Paszty, Ph.D.**, Amgen, Inc. (USA)

*Matching Treatments with Disease Mechanisms for an  
Aging Population*

**Stavros Manolagas, M.D., Ph.D.**, University of  
Arkansas for Medical Sciences (USA)

# Symposia

Continued from page 14

Symposia are sessions which feature three to four invited talks covering basic and/or clinical topics.

## Saturday, October 16

### Plenary Symposium II –

#### The Hip Fracture Epidemic

*Supported by an educational grant from Merck & Co., Inc.*

8:00 am – 9:30 am

#### Chairs:

**Dennis Black, Ph.D.**, University of California, San Francisco (USA)

**Bess Dawson-Hughes, M.D.**, Tufts University (USA)

*Biomechanics of Hip Fracture: Involvement of Cortical and Trabecular Bone Compartments*

**Mary Bouxsein, Ph.D.**, Beth Israel Deaconess Medical Center (USA)

*Muscle Quantity and Quality: Sarcopenia Contributes to Fracture Risk*

**Tamara Harris, M.D., M.S.**, Intramural Research Program, National Institute on Aging (USA)

*Hip Fractures: Rising in the East and Setting in the West*

**Steven Cummings, M.D.**, San Francisco Coordinating Center (USA)

### State-of-the-Art Lecture – Genomic Profiling as a Tool for Discovery

1:30 pm – 2:30 pm

*Sponsored by the ASBMR Education Committee*

#### Chairs:

**Merry Jo Oursler, Ph.D.**, Mayo Clinic (USA)

**Di Chen, M.D., Ph.D.**, University of Rochester Medical Center (USA)

#### Speaker:

**Gabriela Loots, Ph.D.**, Lawrence Livermore National Laboratory (USA)

### Symposium - Task Force Report on Atypical Femoral Fractures

4:30 pm – 6:00 pm

#### Chairs:

**Elizabeth Shane, M.D.**, Columbia University College of Physicians & Surgeons (USA)

**David Burr, Ph.D.**, Indiana University School of Medicine (USA)

#### Introduction

**Elizabeth Shane, M.D.**, Columbia University College of Physicians & Surgeons (USA)

*What Is an Atypical Femoral Shaft Fracture?*

**Thomas Einhorn, M.D.**, Boston Medical Center (USA)

*Prevalence and Risk Factors for Atypical Femoral Fractures*

**Bo Abrahamsen, M.D., Ph.D.**, Copenhagen University Hospital Gentofte (Denmark)

*Mechanical Pathogenesis of Atypical Femoral Fractures*

**Marjolein Van Der Meulen, Ph.D.**, Cornell University (USA)

*Medical Insights – Exploring the Known and Unknown*

**Peter Ebeling, M.D., FRACP**, University of Melbourne (Australia)

*Summary of the Task Force Report*

**David Burr, Ph.D.**, Indiana University School of Medicine (USA)

### Symposium – Can We Talk? Cell Communication in the Skeleton

4:30 pm – 6:00 pm

#### Chairs:

**Henry Donahue, Ph.D.**, The Pennsylvania State University College of Medicine (USA)

**Jean Jiang, Ph.D.**, University of Texas Health Science Center at San Antonio (USA)

*Cell Chatter through Connexins and Cadherins for Skeletal Homeostasis*

**Roberto Civitelli, M.D.**, Washington University in St. Louis School of Medicine (USA)

*N-cadherin-Wnt Signaling Crosstalks in Osteoblasts*

**Pierre Marie, Ph.D.**, INSERM Unit 606 and University Paris Diderot (France)

*Connexin 43: Gap-junction-independent Functions Regulating Osteoblast and Osteocyte Signaling*

**Teresita Bellido, Ph.D.**, Indiana University School of Medicine (USA)

# Symposia

Continued from page 15

Symposia are sessions which feature three to four invited talks covering basic and/or clinical topics.



## Sunday, October 17

### Symposium – Osteoporosis: Why Do Men Get It?

4:00 pm – 5:30 pm

*Co-sponsored by the European Calcified Tissue Society (ECTS)*

*Supported by an educational grant from Eli Lilly and Company*

#### Chairs:

**Robert Adler, M.D.**, McGuire VA Medical Center (USA)

**Cyrus Cooper, D.M., FRCP, MedSci**, University of Southampton (United Kingdom)

*Insights from Epidemiology of Osteoporosis in Men*

**Eric Orwoll, M.D.**, Oregon Health and Sciences University (USA)

*Estradiol – A Key to Male Bone Health*

**Claes Ohlsson, M.D., Ph.D.**, Sahlgrenska University Hospital (Sweden)

*Osteoporosis in Men:*

*Whom Should Be Treated and How?*

**Nelson Watts, M.D.**, University of Cincinnati Bone and Health Osteoporosis Center (USA)

### Symposium – Pathways that Modify the Bone Landscape

4:00 pm – 5:30 pm

#### Chairs:

**Thomas Clemens, Ph.D.**, Johns Hopkins University (USA)

**Marja Marie Hurley, M.D.**, University of Connecticut Health Center School of Medicine (USA)

*NOTCHing Bone: From Stem Cells to Cancer*

**Brendan Lee, M.D., Ph.D.**, Baylor College of Medicine (USA)

*FGF23 and Klotho: From Bone to Kidney and Parathyroid Glands*

**Beate Lanske, Ph.D.**, Harvard School of Dental Medicine (USA)

*Overlapping and Unique Roles of LRP5/6 in Bone Development*

**Bart Williams, Ph.D.**, Van Andel Research Institute (USA)

# Symposia

Continued from page 17

Symposia are sessions which feature three to four invited talks covering basic and/or clinical topics.



## Monday, October 18

### Plenary Symposium III - The Periosteum: An Organizer for Bone Formation and Regeneration

8:00 am – 9:30 am

*Supported by an educational grant from Eli Lilly  
and Company*

#### Chairs:

**Louis Gerstenfeld, Ph.D.**, Boston University  
School of Medicine (USA)

**Kristine Wiren, Ph.D.**, Oregon Health & Science  
University Research (USA)

*The Periosteum Coordinates Growth Factor Signals in  
Skeletal Development*

**Rosa Serra, Ph.D.**, University of Alabama at  
Birmingham (USA)

*The Periosteum Is a Predominant Source of Skeletal  
Progenitors for Bone Repair*

**Celine Colnot, Ph.D.**, University of California, San  
Francisco (USA)

*Endochondral Bone Formation During Fracture Healing  
Is Coordinated by Periosteal Cell Signaling*

**Regis O'Keefe, M.D.**, University of Rochester (USA)

### State-of-the-Art Lecture – Connections Between LRP5, Serotonin and the Skeleton *Supported by an educational grant from Merck & Co., Inc.*

1:30 pm – 2:30 pm

#### Chairs:

**Lynda Bonewald, Ph.D.**, University of Missouri  
(USA)

**Roland Baron, D.D.S., Ph.D.**, Harvard School of  
Medicine and of Dental Medicine (USA)

*Regulation of Bone Mass by Direct Action of LRP5  
in Bone*

**Matthew Warman, M.D.**, Children's Hospital  
Boston (USA)

*Update on the Regulation of Bone Mass by Gut  
Serotonin*

**Patricia Ducy, Ph.D.**, Columbia University (USA)

# Symposia

Continued from page 17

Symposia are sessions which feature three to four invited talks covering basic and/or clinical topics.

## Tuesday, October 19

### State-of-the-Art Lecture - Stem Cells and the Future of Medicine

11:00 am – 12:30 pm

#### Chairs:

**Jane Aubin, Ph.D.**, University of Toronto Faculty of Medicine (Canada)

**Paul Krebsbach, D.D.S., Ph.D.**, University of Michigan, School of Dentistry (USA)

#### *Interactions of Bone and Bone Marrow*

**David Scadden, M.D.**, Massachusetts General Hospital (USA)

#### *Enabling Stem Cell Therapies through Synthetic Stem Cell-Niche Engineering*

**Peter Zandstra, Ph.D.**, University of Toronto (Canada)

### Symposium - Shining Light on Vitamin D: What is the Evidence for Redefining Vitamin D Sufficiency?

11:00 am – 12:30 pm

#### Chairs:

**J. Christopher Gallagher, M.D.**, Creighton University Medical Center (USA)

**Francis Glorieux, M.D., Ph.D.**, Shriners Hospital for Children and McGill University (Canada)

#### *How Much Vitamin D Do We Need?*

**Roger Bouillon, M.D., Ph.D.**, Katholieke Universiteit Leuven (Belgium)

#### *Immunobiology of Vitamin D*

**Chantal Mathieu, M.D., Ph.D.**, Katholieke Universiteit Leuven (Belgium)

#### *Role of Vitamin D in Cancer Prevention and Cancer Risk*

**JoAnn Manson, M.D., DrPH**, Harvard Medical School (USA)

#### *Role of Vitamin D in Muscle Functions, Falls and Frailty*

**Heike Bischoff-Ferrari, M.D., DrPH**, University of Zurich (Switzerland)

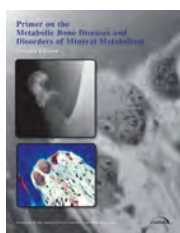
#### *A Two Body Problem: Vitamin D During Pregnancy and Lactation*

**Christopher Kovacs, M.D., FRCPC**, Memorial University of Newfoundland (Canada)

## Order Your Copy of ASBMR's *Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism*

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This text is an indispensable resource for scientists and students seeking an overview of the bone and mineral field and for clinicians who see patients with disorders of bone and mineral metabolism. More than 100,000 copies of the Primer are in print. Internationally renowned authors and editors have created a format designed for quick reference. The text provides valuable information on symptoms, pathophysiology, diagnosis and treatment of metabolic bone diseases and both common and rare disorders.

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# Meet-the-Professor Sessions

The Meet-the-Professor Sessions are informal sessions designed to provide an opportunity for meeting attendees to interact with experts in an intimate setting and discuss specific clinical and research topics. The sessions will be held Friday through Monday. You may purchase a Meet-the-Professor Handout Booklet that contains all the handouts supplied by the professors. The booklet can be purchased when you [register](#) for \$10 USD to be picked up on site at the Convention Centre.

**Please Note:** Tickets are not required for these sessions; however, space is extremely limited. Interested individuals are welcome to attend these sessions on a first-come, first-served basis. Room restrictions and professor preferences will dictate the number of attendees.

Friday, October 15, 11:00 am – 12:00 pm		
Session Title	Science	Professor
Eph Signaling in Bone	Basic	<b>Natalie Sims, Ph.D.</b> , St. Vincent's Institute of Medical Research (Australia)
Biglycan Signaling Regulates Chondrogenesis in Disease	Basic	<b>Marian Young, Ph.D.</b> , National Institutes of Health (USA)
TGF- $\beta$ and Bone Remodeling	Basic	<b>Xu Cao, Ph.D.</b> , Johns Hopkins University (USA)
Genetics of Bone Loss, Determinants of BMD and Fractures <i>Supported by an educational grant from Eli Lilly and Company</i>	Clinical	<b>Doug Kiel, M.D., MPH</b> , Hebrew SeniorLife, Institute for Aging Research (USA)
Primary Hyperparathyroidism: Diagnosis and Management Issues	Clinical	<b>David Goltzman, M.D.</b> , McGill University Health Centre (Canada)
Osteoporosis and Hip Fracture in Asia: How to Rise up to this Challenge?	Clinical	<b>Edith Lau, M.D.</b> , Hong Kong Orthopaedic and Osteoporosis Center for Treatment and Research (China)
Stem Cells: What Are They and What Is Their Potential for Treating Skeletal Disorders	Translational	<b>Pamela Robey, Ph.D.</b> , National Institute of Dental and Craniofacial Research (USA)
Friday, October 15, 3:45 pm – 4:45 pm		
Session Title	Science	Professor
Tutorial on Using Human Tissue for Research	Basic	<b>Julie Glowacki, Ph.D.</b> , Brigham & Women's Hospital (USA)
BAC Recombineering - Gene Engineering	Basic	<b>Douglas Mortlock, Ph.D.</b> , Vanderbilt University Medical Center (USA)
How to Best Define Mineral Properties	Basic	<b>Adele Boskey, Ph.D.</b> , Hospital for Special Surgery (USA)

# Meet-the-Professor Sessions

Continued from page 19

Saturday, October 16, 1:30 pm - 2:30 pm		
Session Title	Science	Professor
Energy Metabolism in Bone	Basic	<b>Beata Lecka-Czernik, Ph.D.</b> , University of Toledo College of Medicine (USA)
Role of HDAC in Regulating Skeletogenesis	Basic	<b>Jennifer Westendorf, Ph.D.</b> , Mayo Clinic (USA)
Choosing the Right Cre Mouse in Bone and Cartilage Biology	Basic	<b>Matthew Hilton, Ph.D.</b> , University of Rochester School of Medicine (USA)
Management of Bone Health in Patients Undergoing Bariatric Surgery	Clinical	<b>Shonni Silverberg, M.D.</b> , Columbia University (USA)
Chronic Kidney Disease and Osteoporosis: How to Diagnose It, How to Treat It and When Is Bone Biopsy Indicated?	Clinical	<b>Sophie Jamal, M.D., Ph.D.</b> , The University of Toronto (Canada)
Diagnosing and Treating Vitamin D Deficiency and Insufficiency <i>Supported by an educational grant from Eli Lilly and Company</i>	Clinical	<b>John Adams, M.D.</b> , University of California, Los Angeles (USA)
Targeting PTH Gene Expression as a Potential Treatment for Osteoporosis	Translational	<b>Tally Naveh-Many, Ph.D.</b> , Hadassah University Hospital (Israel)
Bone Metastases: Mechanisms, Treatment Modalities and New Options	Translational	<b>Theresa Guise, M.D.</b> , Indiana University (USA)
Sunday, October 17, 1:00 pm - 2:00 pm		
Session Title	Science	Professor
Fluorescence-based Dynamic and Cellular Histomorphometry of Murine Skeletal Structures Using Computer Controlled Imaging and Image Analysis	Basic	<b>David Rowe, M.D.</b> , University of Connecticut Health Center (USA)
Imaging the Mechanisms of Osteoclast Migration, Differentiation and Function	Basic	<b>Masaru Ishii, M.D., Ph.D.</b> , Immunology Frontier Research Center, Osaka University (Japan)
Premenopausal Bone Loss: Etiology and Management <i>Supported by an educational grant from Merck &amp; Co., Inc.</i>	Clinical	<b>Robert Recker, M.D.</b> , Creighton University Osteoporosis Research Center (USA)
Management of Skeletal Health in Women with Breast Cancer	Clinical	<b>Meryl Leboff, M.D.</b> , Brigham & Women's Hospital (USA)
Diagnosing and Treating Vitamin D Deficiency and Insufficiency	Clinical	<b>John Adams, M.D.</b> , University of California, Los Angeles (USA)
Anabolic Therapies and Strategies in the Treatment of Osteoporosis <i>Supported by an educational grant from Eli Lilly and Company</i>	Clinical	<b>Ben Leder, M.D.</b> , Massachusetts General Hospital, Harvard Medical School (USA)
Non-invasive Assessment of Bone Structure and Strength	Translational	<b>Sundeep Khosla, M.D.</b> , College of Medicine, Mayo Clinic (USA)

# Meet-the-Professor Sessions

Continued from page 20

Monday, October 18, 1:30 pm - 2:30 pm		
Session Title	Science	Professor
From Development to Disease: Hedgehog in Tumors and Arthritis	Basic	<b>Benjamin Alman, M.D.</b> , Sick Children's Hospital (USA)
Foxo1 and Osteoblast Physiology	Basic	<b>Stavroula Kousteni, Ph.D.</b> , Columbia University Medical Center (USA)
Cartilage Formation and Maintenance	Basic	<b>Mary Goldring, Ph.D.</b> , Hospital for Special Surgery (USA)
Phosphate Disorders in Childhood	Clinical	<b>Ingrid Holm, M.D., MPH</b> , Children's Hospital Boston (USA)
Treatment and Prevention of Skeletal Complications in Men with Prostate Cancer <i>Supported by an educational grant from Merck &amp; Co., Inc.</i>	Clinical	<b>Matthew Smith, M.D., Ph.D.</b> , Massachusetts General Hospital (USA)
Vitamin D and Immunity - Why Do We Need More?	Clinical	<b>Chantal Mathieu, M.D., Ph.D.</b> , Katholieke Universiteit Leuven (Belgium)
Inflammation and Bone Loss in Rheumatic Disorders: Mechanisms and Approach to Management	Translational	<b>Mary Nakamura, M.D.</b> , University of California, San Francisco (USA)

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to submit your manuscript.**



# Special Sessions

## Friday, October 15

### **C** **YI** Special Session for Health Professionals

11:00 am – 1:00 pm

This special session is of interest to all health professionals, first-time meeting attendees, young investigators, individuals new to the field, nurses, clinical research study coordinators, physical therapists and/or those seeking guidance in navigating through the extensive ASBMR program.

#### **Chairs:**

**Betsy McClung, R.N., M.N.**, Oregon Osteoporosis Center (USA)

**Joan Lappe, R.N., Ph.D.**, Creighton University Osteoporosis Research Center (USA)

**Diane Krueger, CCRC, CDT**, University of Wisconsin, Madison (USA)

*Overview of the ASBMR 2010 Annual Meeting*

**Lawrence Raisz, M.D.**, University of Connecticut Health Center (USA)

*Bone Structure in Health and Disease*

**David Dempster, Ph.D.**, Helen Hayes Hospital (USA)

*The Science and Art of Osteoporosis*

**Michael McClung, M.D.**, Oregon Osteoporosis Center (USA)

### **YI** Grant-Writing Workshop: Show Me the Money!

11:00 am – 12:00 pm

*Co-sponsored by the ASBMR Membership Development and Education Committees*

U.S. and international investigators at all career levels are urged to attend this interactive forum that will include grant-writing fundamentals, grant-submission strategies and an "insider's perspective" on winning NIH grants. This session is a can't-miss opportunity for anyone writing a research grant or wanting to gain invaluable insight into the grant-writing process.

#### **Chairs**

**Suzanne Jan de Beur, M.D.**, Johns Hopkins University (USA), Membership Development Committee Chair

**Merry Jo Oursler, Ph.D.**, Mayo Clinic (USA), Education Committee Chair

## KEY

### **C**

#### **Clinician**

Indicates sessions of interest to practicing clinicians

### **YI**

#### **Young Investigator**

Indicates sessions of interest to young investigators, those attendees early in their research careers

### **W&M**

#### **Women and Minorities**

Indicates sessions of interest to women and other minorities

*Short and Sweet: Selling Your Science in 12 Pages*

**Jane Aubin, Ph.D.**, University of Toronto Faculty of Medicine (Canada)

*Getting Your First Grant: Tips for New Investigators*

**Jennifer Westendorf, Ph.D.**, Mayo Clinic (USA)

*An Update on NIH Peer Review from the Scientist's Perspective*

**Larry Suva, Ph.D.**, University of Arkansas for Medical Sciences (USA)

*Q&A – Panelist Discussion: Speakers and Joan McGowan, Ph.D., National Institute of Arthritis, Musculoskeletal & Skin Disease*

### **C** ASBMR/ECTS Clinical Debate - Too Much Suppression of Turnover Is Bad for Bone 3:45 pm – 4:45 pm

#### **Chairs:**

**Douglas Bauer, M.D.**, University of California, San Francisco (USA)

**Socrates Papapoulos, M.D.**, Leiden University Medical Center (USA)

#### **Debaters:**

**Richard Eastell, M.D., FRCP**, University of Sheffield (United Kingdom)

**Ian Reid, M.D., MBChB**, University of Auckland (New Zealand)

# Special Sessions

Continued from page 22

## Saturday, October 16

### **C** Clinical Roundtable/Case Conference - Clinical Utility of Genetic Testing – Application to Parathyroid Disorders

1:30 pm – 2:30 pm

Chair:

**Rajesh Thakker, M.D., FRCP**, Oxford University  
(United Kingdom)

Speakers:

**Andrew Arnold, M.D.**, University of Connecticut  
School of Medicine (USA)

**Michael Levine, M.D., FAAP, FACP**, Children's  
Hospital of Philadelphia (USA)



## Sunday, October 17

### **C** Clinical Roundtable/Case Conference – Disorders of Phosphate Metabolism

1:00 pm – 2:00 pm

Chair:

**Michael Econs, M.D.**, Indiana University School of  
Medicine (USA)

Speakers:

**Tom Carpenter, M.D.**, Yale University School of  
Medicine (USA)

**Michael Whyte, M.D.**, Shriners Hospital for  
Children (USA)

### **YI W&M** Career Development: Work/Life Satisfaction

1:00 pm – 2:00 pm

*Co-sponsored by the Women in Bone and Mineral  
Research and Membership Development Committees*

We would all like to achieve a state of well being that allows us to effectively manage the multiple responsibilities we have at work, at home and in our communities. In this session we will have a panel of speakers at different stages in their careers talking about their experiences and strategies. Panelists include Nicole Partridge, Ph.D., Beatrice Edwards, M.D., FACP, and Melissa Kacena, Ph.D. Following the panel will be an interactive discussion.



# Special Sessions

Continued from page 23

## Sunday, October 17, continued

### **C** **YI** **W&M** NIDDK 60th Anniversary Symposium and Reception

5:30 pm – 7:00 pm

**Chairs:**

**Henry Kronenberg, M.D.**, Massachusetts General Hospital (USA)

**Ronald Margolis, Ph.D.**, National Institute of Diabetes and Digestive and Kidney Diseases (USA)

*Introduction—History of NIDDK*

**John Potts, M.D.**, Massachusetts General Hospital (USA)

*The Ups and Downs of Bone Formation: Growth Factors and Glucocorticoids*

**Ernie Canalis, M.D.**, St. Francis Hospital & Medical Center (USA)

*Phosphate Sensing, Phosphatonins and the Skeleton*

**Rajiv Kumar, M.D.**, Mayo Clinic College of Medicine (USA)

*Neuroendocrine Dysregulation and Bone Disorders*

**Anne Klibanski, M.D.**, Massachusetts General Hospital (USA)

*Vitamin D Molecular Interactions*

**Marie Demay, M.D.**, Massachusetts General Hospital and Harvard Medical School (USA)

*The Calcium Sensing Receptor: Biology and Pathology*

**Edward Brown, M.D.**, Brigham & Women's Hospital (USA)

*Future of NIDDK*

**Griffin P. Rodgers, M.D.**, National Institute of Diabetes and Digestive and Kidney Diseases (USA)

## Monday, October 18

### **C** Clinical Roundtable/Case Conference – Secondary Causes of Osteoporosis

1:30 pm – 2:30 pm

*Supported by an educational grant from Eli Lilly and Company*

**Chair:**

**Felicia Cosman, M.D.**, Helen Hayes Hospital (USA)

**Speakers:**

**Juliet Compston, M.D.**, FRCP, University of Cambridge School of Clinical Medicine (United Kingdom)

**Neil Binkley, M.D.**, University of Wisconsin (USA)



# 2010 Ancillary Program

*Schedule subject to change*

## Overview

Wednesday, October 13	Thursday, October 14	Friday, October 15	Sunday, October 17	Monday, October 18
<b>The International Society for Clinical Densitometry (ISCD)</b> 7:30 am On-site Registration and Sign-in*  8:00 am - 6:15 pm Bone Densitometry Technologist and Clinician Course  *ISCD courses require separate fees and registration	<b>The International Society for Clinical Densitometry (ISCD)</b> 7:30 am Sign-in*  8:00 am - 3:00 pm Bone Densitometry Technologist and Clinician Course	7:15 pm - 9:30 pm <b>Bone Turnover Marker Working Group</b>  7:15 pm - 9:15 pm <b>In Vivo Working Group</b>  7:15 pm - 9:15 pm <b>Non-Invasive Assessment of Bone Microarchitecture and Function Working Group</b>  7:15 pm - 10:00 pm <b>Nutrition and Bone Health Working Group</b>  7:15 pm - 9:30 pm <b>Pediatric Bone and Mineral Working Group</b>  7:15 pm - 9:45 pm <b>Working Group on Skeletal Aging</b>	7:15 pm - 9:45 pm <b>Adult Bone and Mineral Working Group</b>  7:15 pm - 9:45 pm <b>Muscle and Bone Working Group</b>  7:15 pm - 9:15 pm <b>Working Group on Osteoporosis in Rheumatic Diseases</b>  7:15 pm - 10:00 pm <b>Working Group on Systems-based Approaches to Fracture Secondary Prevention</b>  7:15 pm - 9:15 pm <b>Vitamin D Working Group</b>  <b>Industry-Supported Symposia (ISS)</b> 7:15 pm - 9:45 pm <b>Translating Osteoporosis Research to Enduring Practice Change</b>  <i>Sponsored by Med-IQ</i>  <i>Supported by Warner Chilcott</i>	6:30 pm - 9:30 pm <b>Bone Strength Working Group</b>  7:30 pm - 9:30 pm <b>The CKD:MBD Working Group</b>  7:00 pm - 9:00 pm <b>Molecular Biology and Pathology of Bone Working Group</b>  7:00 pm - 9:00 pm <b>Working Group on Musculoskeletal Rehabilitation in Patients with Osteoporosis</b>

**There are no programs scheduled for Saturday, October 16.**

Please note that the International Society for Clinical Densitometry (ISCD) Courses, the Industry-Supported Symposia (ISS) and the Working Groups are not part of the ASBMR 2010 Official Scientific Program. These meetings are held in conjunction with the ASBMR Annual Meeting. The Sponsor/ Organizer of each meeting is responsible for the organization and scientific content of the educational activity. For the ISS, ACCME-accreditation is required and the programs must be in accordance with the Essential Areas and Policies of the ACCME as well as with FDA guidelines stated below. Please note the following definitions: "Supporter" refers to the supporting company and "Sponsor" refers to the managing or organizing party and/or the CME provider.

## ASBMR Expectation of Authors and Presenters

The 2010 Ancillary Program is not part of the ASBMR Official Scientific Program. However, the ASBMR expects that all authors and presenters affiliated with the ASBMR 2010 Annual Meeting and the 2010 Ancillary Program will provide informative and fully accurate content that reflects the highest level of scientific rigor and integrity. This includes the presentations at the 2010 Ancillary Meetings — the International Society for Clinical Densitometry (ISCD) Courses, the Industry Supported Symposia (ISS) and Working Groups.

ASBMR depends upon the honesty of the authors and presenters and relies on their assertions that they have had sufficient full access to the data and are convinced of its reliability. Please review further expectations regarding [speaker disclosures and presentation guidelines](#).

# 2010 Ancillary Program

## Working Groups

Working Groups are interactive meetings related to a focused topic not specifically addressed in the ASBMR Official Program. These meetings are organized by ASBMR members and not initiated by industry. Please note that Working Groups are not part of the ASBMR Official Program and have been organized by the parties indicated.

### Working Group Registration Procedures

Tickets for all Working Groups are available on a first-come, first-served basis through pre-registration and during on-site registration hours, space permitting. We strongly encourage you to [pre-register on-line](#). Waiting lists are not maintained for Working Groups that have met their attendance limit.

## Friday, October 15

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### Bone Turnover Marker Working Group

7:15 pm – 9:30 pm

Registration Fee: \$25 USD

#### Clinical Applications of Bone Turnover Markers

Biochemical bone turnover markers are increasingly being used in clinical practice, as well as in clinical research. In some cases, such as the use of serum  $\beta$ -CTX in predicting the risk of developing osteonecrosis of the jaw in patients starting bisphosphonates, their use is controversial.

This workshop will focus on the clinical applications of biochemical bone turnover markers. It will provide current knowledge about: 1) clinical indications for the use of bone turnover markers, 2) the different types of bone turnover markers and their appropriate use and 3) how to best interpret bone turnover marker data.

Ample time will be allocated for questions and answers, comparisons and a short summation. A boxed dinner with beverages will precede the program.

There will be three thirty-minute talks, each followed by 10 minutes of questions. Featured speakers include: **John Bilezikian, M.D.**, Columbia University College of Physicians & Surgeons, **Patrick Garnero, Ph.D.**, Synarc SAS and **Felicia Cosman, M.D.**, Helen Hayes Hospital.

#### For further information, please contact:

Peter R. Ebeling M.D.

The University of Melbourne, Western Hospital  
Melbourne (Australia)

Telephone: 61-383456429

E-mail: [peterre@unimelb.edu.au](mailto:peterre@unimelb.edu.au)

### In Vivo Working Group

7:15 pm – 9:15 pm

Fifteenth Annual Meeting

Registration Fee: \$15 USD

#### Bone Fracture Repair: From Bench to Bedside

Bone fracture is the most devastating consequence of osteoporosis, and the effect of a potential osteoporosis treatment on bone fracture rate is one of the most important outcomes of long-term clinical trials. These points emphasize the importance of bone fracture and its repair process in the field of bone research. Prominent investigators will describe the use of animal models for studies of the cellular and molecular mechanisms of bone fracture repair, and for preclinical testing of the effects of established and novel osteoporosis therapies on bone-fracture healing. Clinical studies of novel strategies to enhance the repair of bone fractures will also be presented. Ample time will be allowed for questions and discussion. A buffet dinner will precede the program.

#### For further information, please contact:

Thomas J. Wronski, Ph.D.

University of Florida (USA)

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E-mail: [wronskit@vetmed.ufl.edu](mailto:wronskit@vetmed.ufl.edu)

# 2010 Ancillary Program

## Working Groups

Friday, October 15, continued

### **Non-Invasive Assessment of Bone Microarchitecture and Function Working Group**

7:15 pm – 9:15 pm

Thirteenth Annual Meeting

Registration Fee: \$15 USD

The working group includes a presentation and a discussion forum for researchers to exchange ideas pertaining to the technical, basic science and clinical aspects of bone microarchitecture assessment. This thirteenth annual meeting will focus on microarchitecture and bone quality and cover both clinical and experimental aspects of these entities. The working group will outline and discuss potential clinical applications of bone quality imaging and present how different therapeutic regimens will affect bone quality. In addition, a new parameter for assessment of bone quality "microelastic imaging" will be introduced. The goals of the working group are to initiate communication and exchange of ideas, stimulate future development and adequate support in this area and accelerate advances in the field of non-invasive assessment of bone microarchitecture and function. Beverages and a buffet style dinner will be provided.

#### **For further information, please contact:**

Thomas M. Link, M.D., Ph.D.  
Department of Radiology  
University of California, San Francisco (USA)  
Telephone: (415) 353-2450  
Email: [tmlink@radiology.ucsf.edu](mailto:tmlink@radiology.ucsf.edu)

### **Pediatric Bone and Mineral Working Group**

7:15 pm – 9:30 pm

Registration Fee: \$35 USD

#### **Osteonecrosis in Children: Clinical and Basic Science Perspectives**

This year's Pediatric Bone and Mineral Working Group will focus on a review of the literature highlights from 2009 and 2010 (Dr. Craig Munns) and discussion of the clinical and experimental aspects related to pediatric osteonecrosis (isolated and in the context of chronic illness [Drs. Harry Kim and Sue Kaste]). This will be followed by a presentation of up to two abstracts selected from posters in the main forum on pediatric osteonecrosis, each to be presented as 10-minute orals with five minutes for questions. A boxed dinner will be provided.

#### **For further information, please contact:**

Leanne Ward, M.D.  
Children's Hospital of Eastern Ontario (Canada)  
Telephone: (613) 737-7600 ext. 2253  
Email: [Lward@cheo.on.ca](mailto:Lward@cheo.on.ca)

### **Working Group on Skeletal Aging**

7:15 pm – 9:45 pm

Registration fee: \$35 USD

#### **Muscle-Bone Interactions in the Aging Skeleton**

The program will consist of multiple talks on the importance of muscle-bone interactions in skeletal homeostasis with age. Topics will include sarcopenia and aging (Thomas Lang, UCSF), pleiotropy for muscle and bone traits (Douglas P. Kiel and David Karasik, Institute for Aging Research, Hebrew SeniorLife, and Harvard Medical School), the functional muscle-bone unit across the ages, (Mary Leonard, The Children's Hospital of Philadelphia), and the muscle-bone endocrine axis (Mark Johnson, University of Missouri). Time will be allocated for questions and discussion after each presentation. A dinner will precede the program.

#### **For further information, please contact:**

Robert J. Pignolo, M.D., Ph.D.  
University of Pennsylvania (USA)  
Telephone: (215) 573-1514 or (215) 898-8653  
E-mail: [pignolo@mail.med.upenn.edu](mailto:pignolo@mail.med.upenn.edu)

# 2010 Ancillary Program

## Working Groups

Friday, October 15, continued

### **Nutrition and Bone Health Working Group**

7:15 pm – 10:00 pm

Registration Fee: \$15 USD

*Supported by an educational grant from National Dairy Management Inc.*

#### Update on Vitamin D and Calcium Requirements and Recommendations

There is well-established evidence about the role of vitamin D and calcium in bone metabolism. However, recent research shows that vitamin D might be involved in metabolic process in other tissues and that its requirements might be higher than previously thought. This working group will provide an update on the requirements and dietary recommendations for vitamin D and calcium. The science behind new recommendations/requirements and the processes that took place in establishing them will be discussed as well. The program will include two 40-minute expert talks, followed by panel-member presentations and discussion. A plated dinner will precede the program.

#### **For further information, please contact:**

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Florida State University (USA)

Telephone: (850) 645-7177

E-mail: [jilichernst@fsu.edu](mailto:jilichernst@fsu.edu)

Sunday, October 17

### **Adult Bone and Mineral Working Group**

7:15 pm – 9:45 pm

Twenty-fifth Annual Meeting

Registration Fee: \$30 USD

This working group session will open with a brief historical vignette that will be followed by the presentation of abstracts. The session will conclude with the Presentation of the Boy Frame Award for Clinical Excellence in the Field of Bone and Mineral Research.

#### **For further information, please contact:**

Joseph L. Shaker, M.D.

Medical College of Wisconsin (USA)

Telephone: (262) 253-7155

Email: [jshaker@mcw.edu](mailto:jshaker@mcw.edu)

### **Muscle and Bone Working Group**

7:15 pm – 9:45 pm

Registration Fee \$30 USD

#### The Muscle Strength-Bone Strength Relationship in the Young and Old

The largest forces on skeletons come from muscle contractions. This suggests that changes in muscle strength should cause changes in bone strength. This idea has been tested and observed in several studies of growing children, immobilized individuals and in the elderly. There will be five 20-minute expert talks about specific aspects of the muscle-bone interaction in these varied populations. A box dinner will precede the program.

#### **For further information, please contact:**

Christopher L. Gordon, Ph.D.

McMaster University (Canada)

Telephone: (905) 628-5677

E-mail: [chrisgordon@sympatico.ca](mailto:chrisgordon@sympatico.ca)



# 2010 Ancillary Program

## Working Groups

Sunday, October 17 , continued

### **Working Group on Osteoporosis in Rheumatic Diseases**

7:15 pm – 9:15 pm

Registration Fee: \$25 USD

The theme for this session will be "New Insights in Osteo-Arthritis, from Bench to Bedside." The invited speakers and topics include: Introduction by William Lems M.D. (Netherlands); Georg Schett, M.D. (Germany) on Current Concepts and Novel Targets in Osteoarthritis; Nancy Lane, M.D. (USA) on Wnt Signalling Pathway and Osteoarthritis; Piet Geusens, M.D., Ph.D. (Belgium) on Lessons from Imaging Techniques in Hand-Osteoarthritis; Mark Hochberg, M.D., MPH (USA) on Current Symptomatic Treatment of Osteoarthritis (comparison of ACR, EULAR and OARSI recommendations). The speaker presentations will be followed by the presentation of the top two abstracts that the working group receives.

**For further information, please contact:**

Willem F. Lems, M.D., Ph.D.

Vrije Universiteit Medical Centre (Amsterdam)

Telephone: 31-204443432

Email: [wf.lems@vumc.nl](mailto:wf.lems@vumc.nl)

### **Working Group on Systems-based Approaches to Fracture Secondary Prevention**

7:15 pm – 10:00 pm

Third Annual Meeting

Registration Fee: \$10 USD

Effecting Strategies for Systematic Prevention of Secondary Fractures: How & Why?

Despite availability of effective treatments, most patients with a new fracture are still not offered

assessment or treatment for prevention of secondary fractures. This working group is for clinicians from institutions and all health care systems that are not assessing at least 80 percent of their patients with new fractures.

Dr. E. Bogoch and colleagues (Canada) will present a review of the evidence of benefits from services that have been established around the world to effect systematic assessment for fracture secondary prevention. Dr. A.R. McLellan, (United Kingdom) will present 10-year outcomes and health economic evaluation from the world's first fracture liaison service that was established in 1999. Mr. P. Mitchell (United Kingdom) will describe how United Kingdom national health policy has been shaped to prioritize strategies for fracture secondary prevention. Dr R. Dell (USA) will present a step-by-step guide on how to implement services for post-fracture assessment & treatment for fracture secondary prevention based on his experience as head of Kaiser Permanente's Healthy Bones Program in California. Mr. S. Bavonratanavech (Thailand) will describe the growing burden of osteoporotic fractures in the Far East and the challenges they face in affecting strategies for systematic assessment for fracture secondary prevention. Abstracts describing service models that have been established to effect fracture secondary prevention and their outcomes are invited. Two oral presentations will be included in the working-group program. The meeting will conclude with a discussion. A buffet dinner will precede the program.

**For further information, please contact:**

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# 2010 Ancillary Program

## Working Groups

Sunday, October 17 , continued

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### **Vitamin D Working Group**

7:15 pm – 9:15 pm

Registration Fee \$45 USD

*Sponsored by the Vitamin D Workshop, Inc.*

#### Contributions of Vitamin D to Heart and Cardiovascular and Pancreas and Diabetes

It is now agreed that the actions of the steroid hormone 1 $\alpha$ ,25(OH) $_2$ D $_3$  acting through its receptor the VDR, extend far beyond the classical calcium centric intestine, kidney and bone. There are now five additional physiological systems where the VDR in collaboration with 1 $\alpha$ ,25(OH) $_2$ D $_3$  is responsible for a host of newly identified biological responses. These include the immune system, pancreas and metabolic homeostasis, heart-cardiovascular, muscle and brain systems. This working group will focus on the cardiovascular and diabetes-related actions of 1 $\alpha$ ,25(OH) $_2$ D $_3$ . There will be three 20-minute presentations by expert speakers and three 10-minute talks on vitamin D selected from free communication abstracts submitted to the ASBMR meeting.

#### **For further information, please contact:**

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Roger Bouillon, M.D., Ph.D.

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and [Roger.Bouillon@med.kuleuven.be](mailto:Roger.Bouillon@med.kuleuven.be)

Monday, October 18

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### **Bone Strength Working Group**

6:30 pm – 9:30 pm

Registration Fee: \$20 USD

This program will begin with opening remarks from Dr. Richard Kremer, followed by a presentation of the top abstracts that the working group will select from the ASBMR Poster Program. Presentations will include talks on Bone Quality and Bone Quantity, which will be followed by an open debate. A plated dinner will precede the program.

#### **For further information, please contact:**

Richard Kremer, M.D., Ph.D.

McGill University Health Center (Canada)

Telephone: (514) 843-1632

Email: [Richard.kremer@mcgill.ca](mailto:Richard.kremer@mcgill.ca)

# 2010 Ancillary Program

## Working Groups

Monday, October 18, continued

### **Molecular Biology and Pathology of Bone Working Group**

7:00 pm - 9:00 pm

Fifteenth Annual Meeting

Registration Fee: \$30 USD

*Supported by an educational grant from Abbott Laboratories*

#### Epigenetic Control and Regulatory Networks for Bone Biology and Pathology

This working group has as its goal the exploration of new concepts and experimental approaches to addressing parameters of bone biology and skeletal disease. This year's workshop will focus on multiple levels of gene regulation as understanding of these mechanisms is advancing areas of bone biology and pathology. Presentations to date will include the topics: Epigenetic Control Mechanisms, Dr. J. Wesley Pike; Combinatorial Control of Gene Expression, Dr. Rene St-Arnaud; BMP and Wnt Signaling in Pathologic Mineralization, Dr. Dwight Towler; and the Role of Transcription Factor Phosphorylation in the Control of Osteoblast Activity, Dr. Renny Franceschi. Following the presentations, the panel of speakers will answer questions from the audience. An important component of the program will be an open discussion between the speakers and the audience to explore various levels of gene regulation for future studies, including translational and therapeutic approaches. A light fare will precede the program.

#### **For further information, please contact:**

Gary S. Stein, Ph.D.

University of Massachusetts Medical School (USA)

Telephone: (508) 856-5625

E-mail: [gary.stein@umassmed.edu](mailto:gary.stein@umassmed.edu)

### **The CKD: MBD Working Group**

7:30 p.m. - 9:30 p.m.

Registration Fee: \$15 USD

The CKD: MBD Working Group will be chaired by David Bushinsky M.D., Professor of Medicine and Director of Nephrology at the University

of Rochester. The program will consist of three presentations on the following topics: The Emerging Systems Biology of the CKD: MBD: New Organ to Organ Connections; Sclerostin and the Regulation of Bone Formation: Wnt Inhibition and a PTH Target; Osteocytes, FGF23 and Mechanotransduction. These talks will be followed by three abstract presentations selected from the ASBMR Poster Program. A dinner will precede the program.

#### **For further information, please contact:**

Keith A. Hruska, M.D.

Washington University in St. Louis,

School of Medicine (USA)

Telephone: (314) 286-2855

Email: [hruska\\_k@kids.wustl.edu](mailto:hruska_k@kids.wustl.edu)

### **Working Group on Musculoskeletal Rehabilitation in Patients with Osteoporosis**

7:00 pm - 9:00 pm

Twelfth Annual Meeting

Registration Fee: \$25 USD

#### Non-pharmacologic Management of Osteoporosis

The program will be selected by members of our Working Group from submitted abstracts to the ASBMR Official Program using the following key words: Exercise (Bone, Joint, Muscle), Nutrition, Orthopaedics (Mechanical Loading) and Treatments (Non-pharmacological treatment). In addition, special lectures highlighting new developments in our field will be given. These lectures will be invited by the scientific committee of our Working Group.

#### **For further information, please contact:**

Mehrsheed Sinaki, M.D.

Mayo Clinic and Mayo Clinic College of Medicine (USA)

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Michael Pfeifer, M.D.

Medwiss Bad Pyrmont (Germany)

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Email: [iko\\_pyrmont@t-online.de](mailto:iko_pyrmont@t-online.de)

# 2010 Ancillary Program

## Industry-Supported Symposia

### ASBMR Disclaimer

Industry-Supported Symposia (ISS) are not part of the ASBMR Official Program. ISS are held in conjunction with the ASBMR 2010 Annual Meeting. The sponsor of each ISS is responsible for the organization and scientific content of the educational activity in accordance with the Essential Areas and Policies of the ACCME guidelines. Please note the following definitions: "Supporter" refers to the supporting company and "Sponsor" refers to the managing or organizing party and/or the CME provider.

### Sunday, October 17

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#### **Translating Osteoporosis Research to Enduring Practice Change**

*Sponsored by Med-IQ*

*Supported by an educational grant from Warner Chilcott Company, LLC*

7:15 pm - 9:30 pm

Through interactive patient cases, small group discussions and faculty debate, this symposium will examine the current state of osteoporosis care, the application of current standards of care and the future of osteoporosis care. This activity will also explore current issues in osteoporosis recognition, the individualization of treatment, successful patient monitoring and the evolution of treatment with new strategies and changing legislation and policies.

#### **Accreditation/Credit Designation Statement**

Med-IQ is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. Med-IQ designates this activity for a maximum of 2.0 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

#### **Registration Information**

For more information or to register and guarantee a seat for this educational activity, please complete a brief [survey](#), e-mail [info@med-iq.com](mailto:info@med-iq.com), or call toll-free (866)- 858-7434 no later than September 17. After the registration deadline, seats will be available only on a first-come, first-served basis.

# 2010 Ancillary Program

## The International Society for Clinical Densitometry (ISCD)

Please note that the International Society for Clinical Densitometry (ISCD) courses are not part of the ASBMR Official Scientific Program and have been organized by ISCD. The ISCD sessions are held in conjunction with the ASBMR 2010 Annual Meeting and require a separate registration and fee. **To register for this course, or for additional information regarding The International Society for Clinical Densitometry: visit [www.iscd.org](http://www.iscd.org) or call +1 (860) 259-1000.**

The core elements of the ISCD Bone Densitometry Course provide a set of standard practices and information to raise the level of awareness and education in bone densitometry. The course emphasizes central DXA testing. In addition, a solid foundation in other forms of bone-mass measurement, including peripheral DXA and QCT is provided.

### **The ISCD Bone Densitometry Course is divided into two programs that will take place on Wednesday and Thursday, October 13-14:**

**Clinician Course** (open to M.D.s, Ph.D.s, D.O.s, Nurse Practitioners and Physician Assistants) is most appropriate for those involved in the interpretation of DXA scans.

**Technologist Course** (open to Technologists and Allied Health Professionals) is most appropriate for those involved in the performance of the bone densitometry examination.

Technologists may attend the Clinician Course if gaining information about interpreting DXA scans would assist them with their job responsibilities. However, it is recommended that the Technologist Course be taken first.

### **Accreditation Statement**

The International Society for Clinical Densitometry is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to offer continuing medical education for physicians.

# Exhibitors and Sponsors

## Experience the Exhibits

Visit the Exhibit Hall to discover the latest new products, services and advancements in technology.

Annual Meeting registrants receive exclusive admission to the Exhibit Hall where you will have access to more than 65 exhibiting companies. Take the opportunity to ask questions and speak directly with company representatives about what is on the horizon.

[Check out the current list of exhibitors.](#)

## 2010 Supporters

Special thanks to our 2010 Supporters for their participation in the ASBMR 2010 Annual Meeting (list as of June 2010):

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*The ASBMR scientific program is developed by the Society's Annual Meeting Program Committee prior to, and independent of, educational grant support. In accordance with the standards of ACCME and IAHB, the commercial supporters of this meeting have no influence regarding topics or speakers.*



# Registration Information

Registration discounts available on or before Thursday, July 22.

[Click Here to Register Online!](#)

[Click to Download the Registration Form](#)

## Registration Fees

	On or before July 22, 2010	On or after July 23, 2010
ASBMR Members	\$320 USD	\$445 USD
Non-Members	\$610 USD	\$735 USD
Resident, Student, Fellow – ASBMR Member	\$180 USD	\$230 USD
Resident, Student, Fellow – Non-Member*	\$270 USD	\$320 USD
Allied Health Professional*	\$270 USD	\$320 USD
Spouse/Guest	\$40 USD	\$50 USD
Social Event (Saturday, October 16)	\$30 USD	\$30 USD
Meet-the-Professor Handout Booklet	\$10 USD	\$10 USD
2010 Abstracts Book (printed/bound copy for pickup on site)	\$25 USD	N/A

*\* Graduate and medical students and those holding M.D. or Ph.D. degrees in residency or post-graduate fellowship programs may obtain the reduced fee by having their mentor sign the Registration Form, verifying their training status.*

## Why Pay Increased Fees as a Non-Member?

By joining ASBMR prior to the meeting, not only will you receive a significant member discount on your registration fee, but you receive year-round benefits such as the *Journal for Bone and Mineral Research*. If you are not a member check out the membership criteria and [join today](#). If you currently are a member, make sure to [renew your membership](#) in time to get meeting discounts.

## Who Are Allied Health Professionals?

Allied Health Professionals are defined as professionals who participate and help physicians in delivering health care and professionals who contribute to the scientific efforts of physicians or Ph.D.s, etc. Allied Health Professionals may obtain the reduced registration fee by having their director sign the Registration Form verifying their status.

# Registration Information

*continued from page 35*

## What's Included with Registration Fees?

Registration fees entitle the registrant to admission to all sessions, posters, exhibits, Friday's Welcome Reception, all coffee breaks and a digital copy of the 2010 Abstracts book. An additional ticket and fee is required for all Working Groups, the Social Event, Speed Networking session, a printed/bound copy of the 2010 Abstracts book and the Meet-the-Professor Handout Booklet.

## What Are Benefits of Registering Before July 22?

You not only receive a discount on your fees, but also your badge and tickets will be mailed to you prior to the meeting, cutting down your on-site registration to just one line.

## On-site Registration in Toronto

Registration desks will be open for new registrants and material pick-up in the Metro Toronto Convention Centre/South Building on Level 600 during the following hours:

Thursday, October 14	12:00 pm – 6:00 pm
Friday, October 15	7:00 am – 7:00 pm
Saturday, October 16	7:00 am – 5:30 pm
Sunday, October 17	7:30 am – 5:00 pm
Monday, October 18	7:30 am – 5:00 pm

## Refunds/Substitutions

Refunds will be made if cancellation is received in writing by July 22, 2010. Spouse/Guest fees, Working Group ticket fees and Social Event tickets are non-refundable. All refunds will be processed after the Annual Meeting and will be assessed a \$50 USD administrative fee.

There is no charge for substitutions. Eligibility requirements for Member or Student rates will apply. Late registration rates may apply to substitutions made after July 22, 2010. Once a badge is printed changes can only be made on site. Badge sharing is not allowed.

## Admission

ASBMR shall have sole control over all admission policies at all times. Any person (including family members) visiting the exhibits or attending any function of the meeting is required to register and wear an appropriate badge while in attendance. Children age 12 and under are not permitted in the exhibit/poster hall at any time. There are no exceptions to this policy. If child care is required, please make arrangements in advance.

## Spouse/Guest Admission

A badge for spouses and/or other guests may be obtained for a \$40 USD fee. This fee includes admission to the Welcome Reception on Friday, October 15, as well as to the Exhibit/Poster Hall for all breaks. Spouse/Guest badges are intended for spouses/guests of fully registered attendees who are not employed or active in the field. Spouse/Guest tickets to the Social Event are a separate fee.

## Group Registration

Tour leaders and other group organizers may register online using the same system as individuals. The system allows you to enter a list of delegates and enter the payment information only once at the end of the process. Once payment is complete, confirmations will be immediately sent to the confirmation e-mail address you provide. Your confirmation will include instructions on how to log on and request changes or additional receipts.

## Questions?

If you are an ASBMR member and do not have your membership number, please contact [asbmr@asbmr.org](mailto:asbmr@asbmr.org) or +1 (202) 367-1161.

If you have questions about your registration, please contact [asbmr@showcare.com](mailto:asbmr@showcare.com) or +1 (202) 367-1173.

# Hotel Information

ASBMR has reserved rooms in the hotels listed below for your use. Reservations for these hotels must be made through the ASBMR Housing Bureau.

**The Hotel Reservation Deadline is Wednesday, September 15.**

## Why Book in the ASBMR Housing Block?

Booking your reservation outside of the ASBMR block of rooms has a long-term negative impact on the ASBMR meeting. The number of rooms that ASBMR can attribute as reserved by ASBMR attendees helps us to negotiate rates with the city's meeting facilities. With fewer rooms directly attributable to ASBMR, convention center rental rates will rise, which may impact the rates ASBMR must charge for meeting registration. Additionally, hotels place financial penalties on associations for each room not used by our attendees. We appreciate you supporting ASBMR by booking hotel rooms within our official block.

## New This Year! ASBMR International Group Housing

The newly formed ASBMR International Group Department can arrange official group housing for groups traveling with five or more delegates from outside of the USA. They offer all-inclusive travel packages at the lowest possible rates and your own personal multilingual meeting planner from online to on site. This personal meeting planner is always available to provide support at their European or U.S. offices. Contact them by email at [ASBMRgrouphousing@asbmr-igd.com](mailto:ASBMRgrouphousing@asbmr-igd.com) or visit their website [www.asbmr-igd.com/default.aspx](http://www.asbmr-igd.com/default.aspx).

## Student Housing Discounts

If you registered as a resident, student or fellow, you are eligible for discounted housing while supplies last. To receive the discount, use the access code found in your registration confirmation letter when you [book your hotel online](#).

Hotel Name	Address	Mobile / AAA Rating:	ASBMR Rates:	Distance to Metro Toronto Convention Centre/South Building
Fairmont Royal York (Headquarter Hotel)	100 Front Street West	★★★★ / ♦♦♦♦	\$239 CAD single/ double occupancy	2 blocks
Intercontinental Toronto	225 Front Street West	★★★★ / ♦♦♦♦	\$239 CAD single/ double occupancy	1 block (connected to North Building)
Sheraton Centre Hotel	123 Queen Street West	★★★★ / ♦♦♦♦	\$227 CAD single/ double occupancy	5 blocks
The Westin Harbour Castle Hotel	1 Harbour Street	★★★ / ♦♦♦♦	\$227 CAD single/ double occupancy	5 blocks

# Travel Information

## Discount Air Travel and Car Rental Information

ASBMR has partnered with Tower Travel to provide discounted airfare and car rental for the 2010 Annual Meeting. Pick one of the three ways listed below to book your airfare or car rental. Be sure to mention the ASBMR 2010 Annual Meeting.

**Web:** <https://asbmr-towertravel.reardencommerce.com>

You will be guided through setting up a user name/ password to access the discounts.

**Telephone:** +1 (888) 886-7656 or +1 (630) 928-7144

**E-mail:** [travel@towertravel.com](mailto:travel@towertravel.com)

For assistance in confirming the least expensive travel rate, contact Tower Travel. Reservation lines are open from 7:00 am to 10:00 pm, Monday through Friday CDT and 9:00 am to 1:00 pm CDT on Saturdays.

## Discounted Airport Shuttle Service

Use the ASBMR discount for the Airport Express Shuttle between Toronto's Pearson Airport and the downtown hotels.

ASBMR attendees receive a special discount making your rate \$17.94 CAD for one-way and \$29.66 CAD for roundtrip. Leather seating, WiFi capability and laptop plug-ins offer you business class service to ensure your transport time is most productive. To make your Airport Express Shuttle reservation [visit their website.](#)

### Where to Catch the Shuttle at the Airport:

Airport pick up is conveniently located on the Arrivals level of Terminals 1 and 3. The shuttles will depart from Pearson Airport to Hotels at the following time intervals:

4:55 am – 11:25 am	Shuttles Depart Every 30 Minutes
11:55 am – 8:35 pm	Shuttles Depart Every 20 Minutes
8:55 pm – 12:55 am	Shuttles Depart Every 30 Minutes

### Where to Catch the Shuttle at the Hotels for Departure to Pearson Airport:

Shuttles will pick up at all of the Official ASBMR Hotels. You can find the shuttle to the airport at the following locations/times:

Fairmont Royal York Hotel	Pickup Location on York Street
InterContinental Toronto Centre Hotel	Pickup Location on Front Street
Sheraton Centre Hotel	Pickup Location on Richmond Street
Westin Harbour Castle Hotel	Pickup Location on Queens Quay
4:00 am – 11:45 am	Shuttles Depart Every 30 Minutes
12:05 pm – 7:45 pm	Shuttles Depart Every 20 Minutes
8:15 pm – 11:45 pm	Shuttles Depart Every 30 Minutes

# Travel Information

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## Special Needs

We want to ensure that you enjoy the ASBMR 2010 Annual Meeting. If you have special needs due to a disability, please contact ASBMR at [asbmr@asbmr.org](mailto:asbmr@asbmr.org) or +1 (202) 367-1138 and we will do our best to assist you.

## Wheelchair Rentals



Scooter and wheelchair rentals are available by contacting Scootaround, Inc., at their toll-free hotline: +1 (888) 441-7575.

You can also submit a rental inquiry on the web at [www.scootaround.com](http://www.scootaround.com).

## Child Care Services

ASBMR makes no endorsement of any providers and accepts no liability should you employ child-care services while in Toronto. Below are services to contact for child-care services. Please note: Children under 12 years of age are not permitted in any ASBMR meeting, session rooms or Exhibit/Poster Hall at any time.



## ImprovCare Services for Children

This service provides child care in your hotel room. Their rates are \$28 CAD per hour for one-two children or \$34 CAD per hour for three children with a three-hour minimum booking and a 48-hour cancellation policy. This company accepts only Visa and MasterCard as payment. To register your child, call +1 (647) 287-5433 or send an email to [dahla@improvcare.ca](mailto:dahla@improvcare.ca). For more information, visit their website at [www.improvcare.ca](http://www.improvcare.ca).

## Hotel Concierge

Your hotel concierge will be able to provide you with the name and phone number of their preferred child care services.





# Discover Toronto

## What to See and Do

Whether you have a few extra hours or a few extra days, the lake-front city of Toronto has much to offer. If you are interested in museums, markets, architectural highlights, sporting venues, recreational attractions, restaurants and/or shopping, then Toronto is the city for you. Here is a short list of popular attractions:

- ▶ Air Canada Center (Home of the Toronto Raptors and Toronto Maple Leafs)
- ▶ Canada's Wonderland
- ▶ CN Tower
- ▶ Eaton Centre
- ▶ Harbourfront Centre
- ▶ Ontario Place
- ▶ Ontario Science Centre
- ▶ Rogers Centre (Formerly the Skydome, home of the Toronto Argonauts and Toronto Blue Jays)
- ▶ Royal Ontario Museum
- ▶ St. Lawrence Market
- ▶ Toronto Islands
- ▶ Toronto Zoo

For those who have ethnically diverse tastes, Toronto boasts five Chinatowns, Little Italy, a Greek community, Little Portugal and Gerrard India Bazaar. You can take a side trip in one or many of these interesting neighborhoods.

## How to Get Around

### Public Transit

Explore Toronto on one of North America's finest transportation systems – the Toronto Transit Commission (TTC). With easy-to-navigate subways, buses and streetcars, getting around the city is a snap. When using the TTC a single fare will take you anywhere in the city on a one-way trip. You can freely transfer between subway, streetcar and bus, but make sure you obtain a transfer when and where you pay your fare. On buses and streetcars, exact change is required.

GO Transit is Ontario's inter-regional bus and train service. It links Toronto with outlying areas of the Greater Toronto and beyond. GO Trains and buses depart from Toronto's Union Station at regular intervals throughout the day.

### Hail a Taxi

There are a number of different taxi companies in Toronto – each has a distinct look.

- ▶ Fares are standard, metered and non-negotiable
- ▶ The driver should start the meter at the beginning of your ride and stop it when you reach your destination
- ▶ Refuse to ride in a taxi without an operational meter
- ▶ If your service was acceptable, a 10-15% tip is customary

A taxi from the Pearson Airport will cost approximately \$58 CAD to the ASBMR headquarters hotel.

### The Underground City

PATH is downtown Toronto's underground walkway linking 27 kms (16 miles) of subterranean shopping, services and entertainment. Follow the brightly colored PATH signs and you'll reach your downtown destination easily in weatherproof comfort.

For more information on what to do and how to get around, visit [www.seetorontonow.com](http://www.seetorontonow.com).



*Photo courtesy of [www.Torontowide.com](http://www.Torontowide.com)*