

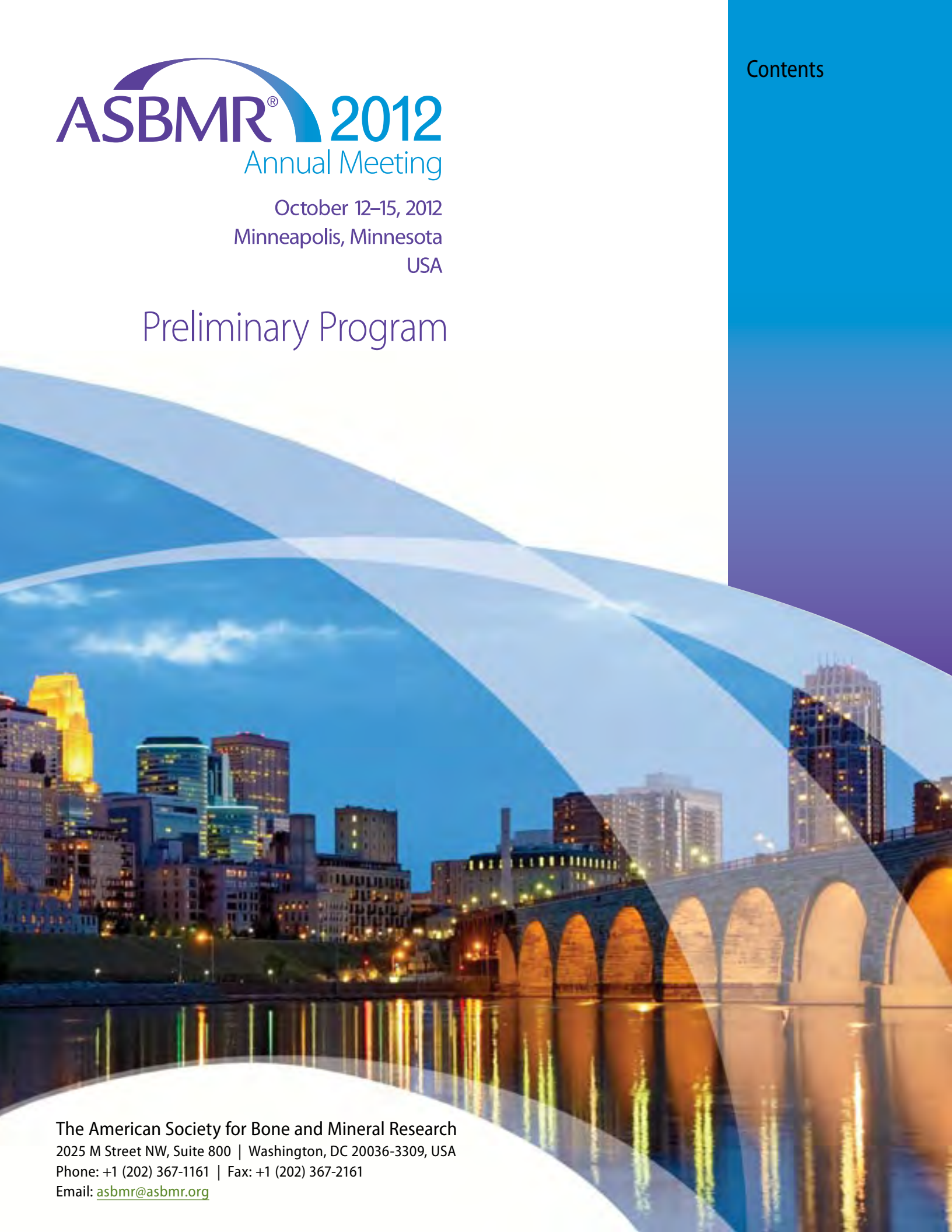
The logo features the text "ASBMR" in a bold, dark blue serif font, followed by a registered trademark symbol. To its right is a stylized blue arch graphic. Further right, the year "2012" is displayed in a large, bold, blue sans-serif font. Below "2012", the words "Annual Meeting" are written in a smaller, blue sans-serif font.

ASBMR[®] 2012 Annual Meeting

October 12–15, 2012
Minneapolis, Minnesota
USA

Preliminary Program

Contents

The background of the cover is a photograph of the Minneapolis skyline at night, featuring the Stone Arch Bridge and the city lights reflected in the water. Overlaid on this image are large, semi-transparent blue and white curved shapes that create a modern, architectural feel.

The American Society for Bone and Mineral Research
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Email: asbmr@asbmr.org

Join Us in Minneapolis

Contents

2012 Annual Conference

Please join us for the ASBMR 2012 Annual Meeting, October 12-15, 2012, in Minneapolis, Minnesota, USA. Program Co-Chairs Robert Adler, M.D., and Xu Cao, Ph.D., have developed an engaging meeting bringing together the newest advances in bone and mineral research with practical applications to enhance patient care. As always, the ASBMR 2012 Annual Meeting features numerous opportunities for you to engage with your colleagues and discuss your research.

Hear the Latest Science

The ASBMR Annual Meeting features presentations from the leading minds in our field. This year, Darwin Prockop, M.D., Ph.D., will present the Gerald D. Aurbach lecture on *MSC and Tissue Repair*. Later, Harry Genant, M.D., will discuss *Advanced Imaging as a Surrogate for Fracture Risk* during the Louis V. Avioli lecture. And of course, all attendees will choose from more than 100 additional scientific sessions highlighting the most exciting advancements in basic, translational and clinical research.

Make New Discoveries

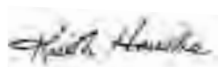
Introducing ASBMR's Discovery Hall: What's new. What's next.—our exciting, interactive approach to information exchange. Explore the Knowledge X-Change and the Laboratory Showcase, both new to the ASBMR Annual Meeting this year! Experts will be available at scheduled times in the Knowledge X-Change to discuss top-of-mind issues in bone and mineral research. In addition, the Laboratory Showcase is your opportunity for hands-on experience with new and innovative scientific products.

Connect With Colleagues

As always, the ASBMR 2012 Annual Meeting will offer numerous opportunities to engage with your colleagues. The ASBMR Networking Center is your hub for meeting new, like-minded colleagues at the Annual Meeting. On Friday, October 12, join us for the Welcome Reception and Plenary Poster Session in the ASBMR Discovery Hall. There will also be a Networking Breakfast on Saturday, October 13, as well as a special event at the Minneapolis Institute of Arts that evening. Young Investigators and under-represented minorities are invited to special Networking Receptions taking place on Friday, October 12, alongside the Welcome Reception. And, of course, all attendees are invited to participate in our interactive Meet-the-Professor sessions to discuss topics of personal interest.

We hope you will join us for the ASBMR 2012 Annual Meeting. Be sure to register on or before August 16, 2012 to receive the advance registration discount.

Sincerely,



Keith Hruska, M.D.
ASBMR President



Ann L. Elderkin, P.A.
ASBMR Executive
Director

2012 Scientific Program Committee

ASBMR President

Keith Hruska, M.D.
Washington University in
St. Louis (USA)

Program Co-Chairs

Robert Adler, M.D., McGuire
VA Medical Center, Virginia
Commonwealth University
(USA)

Xu Cao, Ph.D., Johns Hopkins
University (USA)

Intended Audience

The 2012 ASBMR Official Scientific 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 and 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 muscle and bone, vitamin D, osteoporosis, metabolic bone diseases and therapeutics.
- ▶ Better understand the interrelationship among basic research, clinical research and patient care.
- ▶ Improve ability to treat and care for 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.

Continuing Medical Education

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 32.75 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 Thursday, October 18.

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, contact Jillian Davis at +1 (651) 789-3722 or jillian@cmehelp.com.



Follow the excitement
and opportunities...

Disclosure Policy

The American Society for 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 the 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 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 Expectations 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 2012 Annual Meeting and the 2012 Ancillary Program will provide informative and fully accurate content that reflects the highest level of scientific rigor and integrity.

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, 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's meeting evaluations will seek feedback regarding commercial bias at ASBMR Annual Meeting sessions, including the 2012 Ancillary Program.

Follow the excitement
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General Meeting Information

Continued from page 4

Annual Meeting Resource Materials

2012 Abstracts Book

The 2012 Abstracts book is published as a supplement of the *Journal of Bone and Mineral Research* (JBMR).

A limited number of the 2012 Abstracts books will be printed and available for purchase and pick-up on site in Minneapolis. To obtain a copy, you must order it in advance through the registration form by Wednesday, August 29. The price of the book is \$25 USD. The 2012 Abstracts book will also be available in PDF format for download in advance of the meeting at no charge to members and meeting attendees.

2012 Abstracts Online Program

Only members and pre-registered Annual Meeting attendees will be able to access the 2012 Abstracts Online 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 starting mid-September.

Meet-the-Proffessor Handout Booklet

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 Center. Handout

Booklets will also be available in PDF format for download in advance of the meeting at no charge to members and meeting attendees.

On-Site Program Book

Supported by an Educational Grant from Lilly USA, LLC

As a registered meeting attendee you will receive an *On-Site Program* book along with other meeting materials once you arrive at the Convention Center and check in at the registration counter. This book contains a detailed schedule and description of the events for the entire meeting, including the Ancillary Program.

ASBMR Mobile App

This free smartphone application is a mobile version of the on-site program book and includes the meeting abstracts. The app also features general meeting information, exhibitor listings and detailed maps of the convention center. The app will be available to download in mid-September.

Ancillary Meetings

If you are looking to connect with colleagues on a special topic, we have a process that might help you. Applications need to be submitted on or before August 15, 2012 and space is limited. For more information visit www.asbmr.org.

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and opportunities...

Introducing...

The ASBMR Discovery Hall

What's New. What's Next.

Travel beyond the traditional exhibit hall and enter the ASBMR Discovery Hall. ASBMR is creating a truly immersive experience, all in one central location.



Explore it all in the
ASBMR Discovery Hall.

Follow the excitement
and opportunities...

What's New. What's Next.

Travel beyond the traditional exhibit hall and enter the ASBMR Discovery Hall. ASBMR is creating a truly immersive experience, providing you one central location to access:

- ▶ **New Science**
- ▶ **New Knowledge**
- ▶ **New Tools**
- ▶ **New Products and Services**
- ▶ **New Colleagues and Contacts**



New Science

With close to 1300 poster presentations, ASBMR presents the newest insights in bone science right before you. Sixty-minute “[Poster Tours](#)”, guided by prominent scientists in the bone field, assist you in navigating the poster presentations. Specific schedule information and instructions on how to sign up will be available later this summer. Please visit the [ASBMR website](#) for ongoing updates.

New Knowledge

The ASBMR Knowledge X-Change, is a new, interactive forum for participating in small-group discussion on hot topics with leading experts in the bone field. Similar to the Genius Bar at your local Apple Store, the ASBMR Knowledge X-Change provides you the help-desk and give-and-take dialogue on research issues and techniques necessary for advancement.

New Tools

Nowhere else in the bone science field will you find a display of innovation quite like this. The ASBMR Laboratory Showcase will give you a glimpse of what's new and what's next in creating the optimum research laboratory.

New Products and Services

So much to see, so little time? We hear that. New in 2012, ASBMR will make it easier than ever to see what's new, marking booths featuring new content with a prominent visual indicator.

New Colleagues and Contacts

While installations and presentations can be stimulating, conversations with colleagues are what brings it all to life. The ASBMR Networking Center is your hot spot for meeting like-minded contacts and new resources in the field who can assist in your professional and scientific endeavors.

Explore it all in the ASBMR Discovery Hall.



Friday, October 12

New Investigator/New Member/ First-Time Attendee Reception

Sponsored by the ASBMR Membership Development Committee and Young Investigator Subcommittee

5:45 pm – 7:00 pm

The ASBMR Membership Development Committee and Young Investigator Subcommittee members will be present for this meet-and-greet networking event. This reception promotes professional relationships between new investigators (early-career stage) and ASBMR leadership to encourage building a network of career-long contacts. The New Investigator Reception is held concurrently with the Welcome Reception and the Plenary Poster Session in an area adjacent to the ASBMR Networking Center in the Discovery Hall.

Minority Investigator Reception

Sponsored by the ASBMR Membership Development Committee and Minority Subcommittee

5:45 pm – 7:00 pm

Underrepresented minority attendees are invited to join ASBMR leadership, including the ASBMR Minority Subcommittee members, at this special reception. Take advantage of this forum for sharing your common experiences and unique challenges with your peers. The 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 ASBMR's Discovery Hall.

Young Investigator Networking Hour

Sponsored by the ASBMR Membership Development Committee and Young Investigator Subcommittee

7:15 pm – 8:00 pm

This cash-bar event is open to Young Investigators who want to continue to build connections in a fun and informal setting. Sign up to attend when you register for the meeting.

Minority Investigator Networking Hour

Sponsored by the ASBMR Membership Development Committee and Young Investigator Subcommittee

7:15 pm – 8:00 pm

Investigators are invited to attend this cash-bar event 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.

Speed Networking Event

Sponsored by the Women in Bone and Mineral Research and Membership Development Committees

8:00 pm – 10:00 pm

Registration Fee: \$35 (\$15 students/trainees)
The ASBMR Women in Bone and Mineral Research and Membership Development Committees are co-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 develop connections that can be otherwise difficult to make in meetings as large as ASBMR. Come and join the fun and expand your network. A reception will follow the event.

Follow the excitement
and opportunities...

Networking & Social Opportunities

Continued from page 8

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Saturday, October 13

ASBMR Networking Breakfast

Sponsored by the ASBMR Membership Development Committee

6:45 am – 8:00 am

New Investigators (early-career stage), new ASBMR members and young and under-represented minority investigators are invited to join ASBMR leadership, senior investigators and NIH Representatives for an informal networking breakfast. New Investigators and first-time attendees will have the opportunity to network with senior investigators at tables assigned by research topic. Breakfast will be provided.



ASBMR Social Event: A Night at The Minneapolis Institute of Arts

Supported in part by an educational grant from Lilly USA, LLC

8:30 pm – 11:30 pm

Join your colleagues for a special night at The Minneapolis Institute of Arts. Several galleries will be open exclusively for ASBMR guests to view the museum's collection of modernist design, contemporary, expressionist and impressionist art. Then the fun will move to the atrium and ballroom for dancing, dessert and drinks. Buses will be provided to take attendees from the convention center and select hotel routes for the 10-minute ride to the museum. A \$30 ticket is required for admittance and can be purchased during the registration process.



Follow the excitement and opportunities...

Sunday, October 14

ASBMR Annual Town Hall Meeting and Reception

6:00 pm – 7:00 pm

All attendees are invited to attend the ASBMR Town Hall Meeting and Reception, to learn more about the Society, including the year in review, planned activities, strategic directions and leadership opportunities. Come hear what ASBMR is working on, meet with ASBMR leadership, ask questions during an "open-mic" time and enjoy a wine and cheese reception.



Ongoing Opportunities

ASBMR Networking Center and Knowledge X-Change

Located in the new ASBMR Discovery Hall, the ASBMR Networking Center is a central spot to meet-up with old colleagues and to discover new collaborators and friends. It's also a great place to meet our friendly ASBMR staff, to hold discussions with NIH representatives and enjoy free WiFi for online networking. The new Knowledge X-Change inside the Networking Center will host informal discussions with speakers and other leaders in the field.

NIH Lounge

Meet with representatives from the U.S. National Institutes of Health (NIH) and the Center for Scientific Review (CSR) at the NIH Lounge in the ASBMR Networking Center to discuss your grant proposals and ideas. Program staff from the following institutes and centers will be available to share their knowledge and expertise:

- ▶ 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)

Young Investigator Lounge

Connect with other young investigator attendees at the Young Investigator Lounge located in the ASBMR Networking Center. Discuss common challenges and opportunities with your peers, and take the opportunity to make new friends and expand your network.

Meet-the-Professor Sessions

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 containing all the handouts supplied by the professors. The booklet can be purchased for \$10 USD during Annual Meeting registration, to be picked up on site at the Convention Center. Handout Booklets will also be available in PDF format for download in advance of the meeting at no charge to members and meeting attendees.

Follow the excitement
and opportunities...

Networking & Social Opportunities

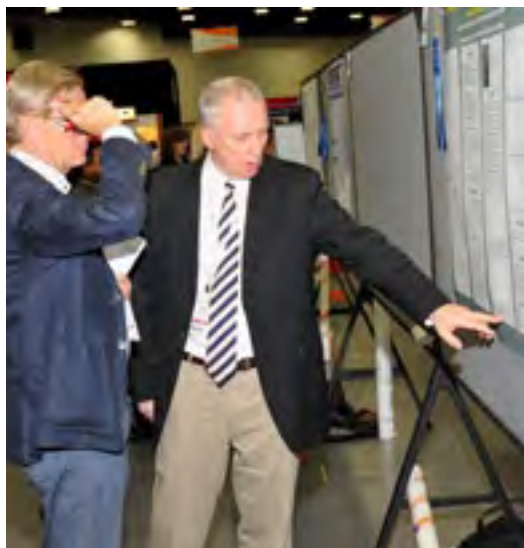
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Poster Tours

Sponsored by the ASBMR Education Committee

Annual Meeting Poster Session Tours will take place during three poster sessions on Saturday, October 13, Sunday, October 14, and Monday, October 15. These poster tours will be guided by a prominent scientist in the bone field to assist attendees in navigating the science within the poster hall. Participants will be able to choose between tours focused on either basic or clinical science. Tours will begin at the ASBMR Networking Center and will last approximately 60 minutes. Please visit the ASBMR website in mid-September to sign up for one of these exciting tours.



Working Groups

Working Groups are small interactive evening sessions organized around focused topics of special interest to you and others in your specific area of study. They are part of the ASBMR Ancillary Program and are organized by members independent of the Official ASBMR Program. Additional tickets are required.

[See page 28](#) for topics and speakers.

Follow the excitement
and opportunities...

FRIDAY, OCTOBER 12 <i>Click on the topics for more information</i>	
8:00 am – 9:30 am	Welcome & Announcements
	Gerald D. Aurbach Memorial Lecture – Prospects for Therapies with Adult Stem/Progenitor Cells (MSCs) or the Proteins They Produce, Darwin J. Prockop, M.D., Ph.D.
	Presentation of ASBMR Gideon A. Rodan Excellence in Mentorship Award & Lawrence G. Raisz Award
9:30 am – 10:00 am	Networking Break
10:00 am – 11:00 am	Secondary Fracture Prevention Task Force Report – An Update
	Meeting Overview for Health Professionals
	Meet-the-Professor Sessions
	Grant Writing Workshop: Writing a Persuasive Grant
11:30 am – 1:00 pm	Symposium – Fracture Healing
	Symposium – Regulation of Mesenchymal Stem Cells
1:00 pm – 1:30 pm	Networking Break
1:30 pm – 3:00 pm	Symposium – Regulation of Bone Through TGF-beta Super Family Receptors
	Symposium – Fracture Risk Assessment
3:15 pm – 4:45 pm	ASBMR/ECTS State-of-the-Art Lectures – Bone-muscle Interactions during Development
3:30 pm – 4:35 pm	ASBMR/ECTS Clinical Debate – Patients with High FRAX Scores Experience Larger Reductions in Fracture Risk with Treatment than those with Lower FRAX Scores
	Presentation of ASBMR William F. Neuman Award
4:30 pm – 5:00 pm	Networking Break
5:00 pm – 5:45 pm	Oral Poster Sessions
5:45 pm – 7:00 pm	Welcome Reception and Plenary Poster Session in Discovery Hall
7:15 pm – 8:00 pm	Young Investigator Networking Hour and Minority Investigator Networking Hour
7:15 pm – 9:45 pm	Working Groups
8:00 pm – 10:00 pm	Speed Networking Event

SATURDAY, OCTOBER 13 <i>Click on the topics for more information</i>	
6:45 am – 8:00 am	ASBMR Networking Breakfast
8:00 am – 9:10 am	Louis V. Avioli Memorial Lecture – Advanced Bone Imaging in Osteoporosis: Monitoring Disease Progression, Predicting Fracture Risk, and Providing Surrogacy for Fracture Outcome – the “Holy Cow!” or the “Holy Grail?”, Harry Genant, M.D.
	Presentation of ASBMR Louis V. Avioli Memorial Founders Award
9:00 am – 4:00 pm	Discovery Hall Open
9:00 am – 9:30 am	Discovery Hall Coffee Break
9:30 am – 11:00 am	Concurrent Oral Sessions
10:00 am – 11:00 am	Meet-the-Professor Sessions
11:00 am – 1:00 pm	Poster Session I & Poster Tours
1:00 pm – 2:00 pm	Clinical Roundtable/Case Conference – Male Hormone Replacement Therapy in Osteoporosis
	Meet-the-Professor Sessions
	Leadership Forum: Conversations with ASBMR Esteemed Award Winners
2:15 pm – 3:45 pm	Concurrent Oral Sessions
3:30 pm – 4:00 pm	Discovery Hall Coffee Break
4:00 pm – 5:30 pm	State-of-the-Art Lectures – MSCs, HSC, Vasculature Interactions
	Symposium – Duration and Safety of Osteoporosis Therapy
5:30 pm – 8:30 pm	Clinical Evening at ASBMR – Evidence-based Management of Osteoporosis
8:30 pm – 11:30 pm	ASBMR Social Event – A Night at The Minneapolis Institute of Arts

Follow the excitement
and opportunities...

Schedule-at-a-Glance (Official Scientific Program Overview)

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SUNDAY, OCTOBER 14 <i>Click on the topics for more information</i>	
8:00 am – 9:40 am	Plenary Symposium I – Steroid Hormonal Regulation of Bone
	Presentation of ASBMR Fuller Albright Award & Paula Stern Achievement Award
9:30 am – 4:30 pm	Discovery Hall Open
9:30 am – 10:00 am	Discovery Hall Coffee Break
10:00 am – 11:30 am	Concurrent Oral Sessions
10:30 am – 11:30 am	Meet-the-Professor Sessions
11:30 am – 1:30 pm	Poster Session II & Poster Tours
1:30 pm – 2:30 pm	Clinical Roundtable/Case Conference – Vitamin D and Repercussions of the IOM Report
	Meet-the-Professor Sessions
	Career Development – Secrets to Building a Great Research Team
2:45 pm – 4:15 pm	Concurrent Oral Sessions
4:00 pm – 4:30 pm	Discovery Hall Coffee Break
4:30 pm – 6:00 pm	State-of-the-Art Lectures – Matricellular Signaling
	Symposium – The Aging Kidney, Osteoporosis and Vascular Calcification
6:00 pm – 7:00 pm	ASBMR Town Hall Meeting and Reception
7:15 pm – 9:30 pm	Working Groups

MONDAY, OCTOBER 15 <i>Click on the topics for more information</i>	
8:00 am – 9:40 am	Plenary Symposium II – Bone Turnover Markers
	Presentation of ASBMR Frederic C. Bartter Award & Shirley Hohl Service Award
9:30 am – 4:30 pm	Discovery Hall Open
9:30 am – 10:00 am	Discovery Hall 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 – Parathyroid Hormone, Hyperparathyroidism, and Hypoparathyroidism
	Meet-the-Professor Sessions
	ASBMR/OARSI Sponsored Symposium – Osteoarthritis and the Skeleton
2:45 pm – 4:15 pm	Late-Breaking Abstract Presentations
4:00 pm – 4:30 pm	Discovery Hall Closing Coffee Break
4:30 pm – 6:00 pm	Concurrent Oral Sessions

Follow the excitement
and opportunities...

Gerald D. Aurbach Memorial Lecture

Friday, October 12 / 8:15 am – 9:15 am

Prospects for Therapies with Adult Stem/Progenitor Cells (MSCs) or the Proteins They Produce

Darwin J. Prockop, M.D., Ph.D., *Texas A&M Health Science Center College of Medicine (USA)*



Therapeutic benefits in a number of models for human disease have been reported with administration of the adult stem/progenitor cells from bone marrow referred to as mesenchymal stem cells or

mesenchymal stromal cells (MSCs). We observed that intravenously administered MSCs improved myocardial infarction in mice by being trapped in the lung where they created microemboli that activated the cells to synthesize TSG-6, and the TSG-6 reduced the excessive inflammatory response that damaged cardiomyocytes (Lee et al. Cell Stem Cell 2009). We also observed that intraocular administration of TSG-6 reduced the excessive inflammatory response that damaged the cornea in a rodent model for chemical injury of the eye (Oh et al. PNAS 2010). In parallel experiments we observed that retinal degeneration was decreased in a rat model for retinitis pigmentosa by intravitreal administration of STC-1 (Roddy et al. Molecular Therapy, 2012), an anti-apoptotic protein produced by hMSCs in response to signals from apoptotic cells (Block et al. Stem Cells 2009). However, in a model for regeneration of rat meniscus, hMSCs engrafted for several weeks and enhanced regeneration in part by being activation to express genes that are expressed during endochondrial ossification: Ihh, BMP-2

and PTHLH (Horie et al. under review). The results indicate that some of the therapeutic benefits observed with administration of MSCs in disease models can be duplicated by administration of therapeutic factors the cells produce such as TSG-6 or STC-1. However, other beneficial effects are apparently explained by more complex interactions between the cells and the microenvironments created by injuries to specific tissues.

About Dr. Darwin Prockop

Darwin J. Prockop, M.D., Ph.D., is the Director of the Texas A&M Health Science Center College of Medicine Institute for Regenerative Medicine at Scott & White in Temple, TX. He has done research on collagen biosynthesis, mutations causing skeletal disorders and, more recently, on adult stem/progenitor cells from bone marrow referred to as mesenchymal stem cells or multipotent mesenchymal stromal cells (MSCs). The efforts of his research group have focused on both the basic biology of MSCs and their potential therapeutic uses in diabetes, and in diseases of the lung, heart, central nervous system and skeletal system. In addition, plans are being developed to use the cells in clinical trials in patients. Dr. Prockop has published over 500 papers in reviewed journals. He has received four honorary degrees and he is a member of the National Academy of Sciences and the Institute of Medicine.

Follow the excitement
and opportunities...

Louis V. Avioli Memorial Lecture

Saturday, October 13 / 8:00 am – 9:00 am

Advanced Bone Imaging in Osteoporosis: Monitoring Disease Progression, Predicting Fracture Risk, and Providing Surrogacy for Fracture Outcome – the “Holy Cow!” or the “Holy Grail?”

Harry K. Genant, M.D., *University of California, San Francisco and CCB- SYNARC, Inc. (USA)*



The skeleton is comprised of cortical and trabecular bone, each contributing to skeletal strength and to fracture resistance. The determination of skeletal status in health and disease, and its response to therapy and

propensity to fracture have been primarily based on assessment of standard bone mineral density (BMD) and mass (BMC) by areal or volumetric X-ray-based imaging techniques. While such BMD/BMC evaluations by dual-X-ray absorptiometry (DXA) and quantitative computed tomography (QCT) have clinical utility in detecting bone loss and diagnosing osteoporosis, they do not fully assess the impact of metabolic disorders or therapeutic interventions on the skeleton or adequately predict the risk of appendicular and axial fractures. Additionally, these standard bone density techniques have not achieved regulatory recognition as valid surrogates for fracture outcome.

As a consequence, there has been considerable interest in the examination of other factors beyond BMD associated with bone integrity and mechanical competence, including the macro- and micro-structure and strength of both cortical and trabecular bone and the basic composition of skeletal tissue. The analysis of bone morphology including micro-architecture and ultra-structure of the trabecular and cortical compartments has been accomplished using the remarkable, high-resolution imaging capabilities of advanced computed tomography (CT), micro-computed tomography (μ CT) and magnetic resonance (MR) systems, combined with advanced image processing and computational approaches, including finite element analysis (FEA) for estimating bone strength.

These newer advanced imaging technologies now have been widely applied in pre-clinical and clinical research and have contributed enormously to our understanding of the complex relationships among bone density, mass, geometry, micro-structure, strength and fracture propensity, across a range of axial and appendicular skeletal sites, and their variable cortical, trabecular and endosteal or endocortical components. The skeletal consequences of aging, disease progression and response to novel therapy have been extensively examined and considerably illuminated through application of these advanced bone imaging and analysis methods. The results of these studies have propelled us well beyond the mere realm of spectacular images, the “Holy Cow!”, to an exalted sphere of enhanced skeletal structural knowledge approaching, albeit not yet attaining, the “Holy Grail.”

About Dr. Harry Genant

Harry K. Genant, M.D., is Professor Emeritus of the University of California San Francisco, and Member of the Board of Directors of CCB- SYNARC, Inc. He founded the Osteoporosis and Arthritis Research Group (OARG) in the Department of Radiology, UCSF, and served as its Executive Director. In 1998 he co-founded Synarc, Inc., a global, contract research organization (CRO) specializing in management of quantitative imaging and biomarkers in large, multicenter, multinational, pharmaceutical drug trials. Dr. Genant has been editor or co-editor of more than 30 books and author or co-author of more than 170 chapters or invited articles, more than 600 articles in peer-reviewed scientific and medical journals, and more than 1500 abstracts presented at national and international scientific and professional gatherings. He is on the editorial boards of *Osteoporosis International* and the *Journal of Clinical Densitometry*, and is Associate Editor of *Bone*.

Follow the excitement
and opportunities...

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

Friday, October 12

Symposium – Fracture Healing

11:30 am – 1:00 pm

Co-Chairs:

Susan Bukata, M.D., UCLA (USA)

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

Parathyroid Hormone

Per Aspenberg, M.D., Linköping University (Sweden)

Sclerostin Antibody

Michael Ominsky, Ph.D., Amgen Inc. (USA)

Bone Morphogenic Proteins

Gary Friedlaender, M.D., Yale School of Medicine (USA)

Symposium – Regulation of Mesenchymal Stem Cells

11:30 am – 1:00 pm

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

Co-Chairs:

Darwin Prockop, M.D., Ph.D., Texas A&M Health Science Center (USA)

Cun-Yu Wang, Ph.D., D.D.S., UCLA (USA)

Flexible Bones: Integrated vs. Differential Control of Stem Cells and Lineages in the Stromal System

Paolo Bianco, M.D., Università La Sapienza (Italy)

The Wnt/Planar Cell Polarity Pathway

Regulates Directional Skeletal Morphogenesis

Yingzi Yang, Ph.D., National Institute of Health (USA)

Adult Stem Cell Biology: A Tale of Ovaries, Menopause and Their Impact on Bone Health

Jonathan Tilly, Ph.D., Harvard Medical School (USA)

Symposium – Regulation of Bone Through TGF- β Super Family Receptors

1:30 pm – 3:00 pm

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

Co-Chairs:

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

Di Chen, M.D., Ph.D., Rush University Medical Center (USA)

The Role of TGF- β in Osteoarthritis

Wim van den Berg, Ph.D., Radboud University Nijmegen Medical Centre (The Netherlands)

BMP Signaling in Bone Development and Repair

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

TGF- β 1 in Subchordal Bone Remodeling and Osteoarthritis

Xu Cao, Ph.D., Johns Hopkins University (USA)

Follow the excitement and opportunities...

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

Friday, October 12 *(Continued)*

Symposium – Fracture Risk Assessment

1:30 pm – 3:00 pm

Co-Chairs:

Ghada El-Hajj Fuleihan, M.D., MPH, American University of Beirut-Medical Center (Lebanon)

John Schousboe, M.D., Ph.D., Park Nicollet Clinic, University of Minnesota (USA)

FRAX

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

Other Fracture Risk Calculators

William Leslie, M.D., MSc, FRCP, University of Manitoba (Canada)

Beyond Risk Calculators: Back to Clinical Judgment

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

State-of-the-Art Lectures – Bone-muscle Interactions during Development

3:15 pm – 4:45 pm

Co-Sponsored by the European Calcified Tissue Society (ECTS)

Co-Chairs:

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

Karyn Esser, Ph.D., University of Kentucky (USA)

Muscle and Connective Tissue Interactions during Development and Regeneration

Gabrielle Kardon, Ph.D., University of Utah (USA)

Tissue Interactions in the Developing Limb Musculoskeletal System

Malcolm Logan, Ph.D., MRC, National Institute for Medical Research (United Kingdom)

Muscle-Induced Mechanical Loads Regulate Key Aspects of Skeletogenesis

Elazar Zelzer, Ph.D., Weizmann Institute of Science (Israel)



Follow the excitement and opportunities...

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

Saturday, October 13

State-of-the-Art Lectures – MSCs, HSC, Vasculature Interactions

4:00 pm – 5:30 pm

Supported by an educational grant from Lilly USA, LLC

Co-Chairs:

Cliff Rosen, M.D., Maine Medical Center (USA)

Xuedong Zhou, Ph.D., D.D.S., SiChuan University (China)

Vascular Endothelial and Mesenchymal Stem Cells in Bone Formation

Bjorn Olsen, M.D., Ph.D., Harvard School of Dental Medicine (USA)

Endocrine Regulation of the Bone Vascular Axis

Dwight Towler, M.D., Ph.D., Washington University in St. Louis (USA)

Smooth Muscle Cell Plasticity and Vascular Disease

Catherine Shanahan, Ph.D., Kings College London (United Kingdom)

Symposium – Duration and Safety of Osteoporosis Therapy

4:00 pm – 5:30 pm

Co-Chairs:

Stuart Silverman, M.D., Cedars-Sinai/UCLA (USA)

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

Osteonecrosis of the Jaw

John Hellstein, D.D.S., M.S., University of Iowa (USA)

Atypical Femoral Fractures

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

Length of Osteoporosis Treatment – What Is the Evidence?

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



Follow the excitement
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Symposia are sessions that feature three to four invited talks covering basic and/or clinical topics.

Sunday, October 14

Plenary Symposium – Steroid Hormonal Regulation of Bone

8:00 am – 9:30 am

Supported by an educational grant from Lilly USA, LLC

Co-Chairs:

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

Mei Wan, M.D., Ph.D., Johns Hopkins University School of Medicine (USA)

Steroid Receptor Coactivators: Keys to Mechanism of Action

Bert O'Malley, M.D., Baylor College of Medicine (USA)

Skeletal Interactions between Glycoprotein and Steroid Hormones

Mone Zaidi, M.B.B.S., Ph.D., Mount Sinai Medical Center (USA)

Gene Transcription Regulation and Bone

Shigeaki Kato, Ph.D., University of Tokyo (Japan)

State-of-the-Art Lectures – Matricellular Signaling

4:30 pm – 6:00 pm

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

Co-Chairs:

Sundeep Khosla, M.D., Mayo Clinic (USA)

Laurie McCauley, D.D.S., Ph.D., University of Michigan School of Dentistry (USA)

Communication among Bone Cells

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

Matrix Elasticity Controls Fate of MSCs

Dennis Discher, Ph.D., University of Pennsylvania (USA)

The Osteoclast and its Unique Cytoskeleton

Steven Teitelbaum, M.D., Washington University in St. Louis School of Medicine (USA)

Symposium – The Aging Kidney, Osteoporosis and Vascular Calcification

4:30 pm – 6:00 pm

Chair:

Paul Miller, M.D., FACP, Colorado Center for Bone Research (USA)

Age-related Kidney Disease - Implications for Disturbed Mineral Metabolism and Bone Disease

Moshe Levi, M.D., University of Colorado Denver (USA)

Mineral Dysregulation in CKD, an Accelerated Model of Aging

Susan Schiavi, Ph.D., M.S., Genzyme Corporation (USA)

Emerging Roles of FGF23 as a Bridge between Phosphate and Iron Metabolism in the Bone-kidney Endocrine Axis

Kenneth White, Ph.D., Indiana University School of Medicine (USA)

AGEs and Aging Bone Lesions in Mice

Gary Striker, M.D., Mount Sinai School of Medicine (USA)

Follow the excitement and opportunities...

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

Monday, October 15

Plenary Symposium – Bone Turnover Markers

8:00 am – 9:30 am

Supported by an educational grant from Lilly USA, LLC

Sponsored by the ASBMR Professional Practice Committee

Co-Chairs:

Markus Seibel, M.D., Ph.D., ANZAC Research Institute, University of Sydney (Australia)

Michael Lewiecki, M.D., FACP, FACE, University of New Mexico School of Medicine (USA)

Novel Markers of Bone Metabolism

Patrick Garnero, Ph.D., INSERM Research Unit 664 and Csbio Bioassays (France)

Novel Osteoporosis Therapies and their Effects on Markers of Bone Metabolism

Kristina Åkesson, M.D., Ph.D., Skåne University Hospital, Malmö (Sweden)

How to Improve the Clinical Utility of Bone Turnover Markers

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

Symposium – Osteoarthritis and the Skeleton

1:30 pm – 2:30 pm

Co-sponsored with The Osteoarthritis Research Society International (OARSI)

Co-chairs:

Marc Hochberg, M.D., University of Maryland School of Medicine (USA)

Mary Goldring, Ph.D., Hospital for Special Surgery (USA)

The Role of Subchondral Bone in Osteoarthritis

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

New Directions in Treatment of Osteoarthritis: Mouse Models

Edward Schwarz, Ph.D., University of Rochester (USA)

Hip Shape, Genetics and Osteoarthritis

Nancy Lane, M.D., University of California, Davis Medical Center (USA)



Follow the excitement
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Meet-the-Professor Sessions

Contents

Meet-the-Professor Sessions are informal sessions designed to provide an opportunity for attendees 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 for \$10 USD when you register, to be picked up on site at the Convention Center. Handout booklets will also be available in PDF format for download in advance of the meeting at no charge to members and meeting attendees.

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 number of attendees.

Friday, October 12, 10:00 am – 11:00 am

TOPIC	SPEAKER	TYPE
Arthritis and TGFβ Signaling	Regis O'Keefe, M.D., University of Rochester (USA)	Basic
Osteocytes	Jerry Feng, M.D., Ph.D., Texas A&M Health Science Center (USA)	Basic
FGF23 in Phosphate Metabolism	Suzanne Jan de Beur, M.D., Johns Hopkins University (USA)	Basic
Osteoporosis in the "Old Old"	Cathleen Colon-Emeric, M.D., M.S., Duke University Medical Center (USA)	Clinical
Bone Drugs in Children	Gordon Klein, M.D., MPH, University of Texas College of Medicine (USA)	Clinical
Transplantation Osteoporosis	Sol Epstein, M.D., Mt. Sinai School of Medicine (USA)	Clinical
Mechanical Loading	Angela Cheung, M.D., Ph.D., University Health Network (Canada) and Mark Johnson, Ph.D., University of Missouri, Kansas City Dental School (USA)	Translational

Follow the excitement
and opportunities...

Meet-the-Professor Sessions

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Saturday, October 13, 10:00 am – 11:00 am*

TOPIC	SPEAKER	TYPE
Nephrolithiasis	Howard Fink, M.D., MPH, GRECC, Minneapolis VA Medical Center (USA) and Murray Favus, M.D., University of Chicago (USA)	Clinical
Idiopathic Osteoporosis in Premenopausal Women	Elizabeth Shane, M.D., Columbia University College of Physicians and Surgeons (USA)	Clinical
Post-fracture Management	Rick Dell, M.D., Kaiser (USA)	Clinical

*These clinical topics are repeated on Sunday

Saturday, October 13, 1:00 pm – 2:00 pm

TOPIC	SPEAKER	TYPE
Role of T Cells in Osteoporosis and PTH Function	Roberto Pacifici, M.D., Emory University School of Medicine (USA)	Basic
Mechanical Signal and Bone Formation	Yi-Xian Qin, Ph.D., State University of New York at Stony Brook (USA)	Basic
Subchondral Bone and Osteoarthritis	David Burr, Ph.D., Indiana University School of Medicine (USA)	Basic
Screening for Osteoporosis	Susan Greenspan, M.D., University of Pittsburgh (USA)	Clinical
Glucocorticoid-induced Osteoporosis	Marc Hochberg, M.D., MPH, University of Maryland School of Medicine (USA)	Clinical
Female Athletic Triad, Eating Disorders and Low Bone Mass	Catherine Gordon, M.D., Children's Hospital Boston and Harvard Medical School (USA)	Clinical
Osteogenesis Imperfecta - Treatment	Francis Glorieux, M.D., Ph.D., Shriners Hospital for Children and McGill University (Canada)	Translational

Follow the excitement and opportunities...

Meet-the-Professor Sessions

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Sunday, October 14, 10:30 am – 11:30 am *

TOPIC	SPEAKER	TYPE
Screening for Osteoporosis	Susan Greenspan, M.D., University of Pittsburgh (USA)	Clinical
Glucocorticoid-induced Osteoporosis	Marc Hochberg, M.D., MPH, University of Maryland School of Medicine (USA)	Clinical
Female Athletic Triad, Eating Disorders and Low Bone Mass	Catherine Gordon, M.D., Children's Hospital Boston and Harvard Medical School (USA)	Clinical

*These are repeated clinical topics from Saturday

Sunday, October 14, 1:30 pm – 2:30 pm

TOPIC	SPEAKER	TYPE
PTH and Marrow Microenvironment	Laurie McCauley, D.D.S., Ph.D., University of Michigan School of Dentistry (USA)	Basic
The Pathology of Common (or not so common) Bone Lesions in Humans and Mouse Models	Brendan Boyce, M.D., University of Rochester Medical Center (USA)	Basic
Bone-Vascular Axis	Dwight Towler, M.D., Ph.D., Washington University in St. Louis (USA)	Basic
Nephrolithiasis	Howard Fink, M.D., MPH, GRECC, Minneapolis VA Medical Center (USA) and Murray Favus, M.D., University of Chicago (USA)	Clinical
Idiopathic Osteoporosis in Premenopausal Women	Elizabeth Shane, M.D. Columbia University College of Physicians and Surgeons (USA)	Clinical
Post-fracture Management	Rick Dell, M.D., Kaiser (USA)	Clinical
From Molecule Target to Anti-Osteoporosis Drug	Le Thi Duong, Ph.D., Merck Research Laboratories (USA)	Translational

Follow the excitement and opportunities...

Meet-the-Professor Sessions

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Monday, October 15, 1:30 pm – 2:30 pm

TOPIC	SPEAKER	TYPE
Genetic Skeletal Diseases	Brendan Lee, M.D., Ph.D., Baylor College of Medicine & Howard Hughes Medical Institute (USA)	Basic
Fibrocytes and Marrow Fibrosis	Ernestina Schipani, M.D., Ph.D., Indiana University School of Medicine (USA)	Basic
Mechanical Sensor and Osteocytes	Jean Jiang, Ph.D., University of Texas Health Science Center at San Antonio (USA)	Basic
Medication-induced Osteoporosis	Cyrus Cooper, D.M., FRCP, MedSci, University of Southampton (United Kingdom)	Clinical
Breast and Prostate Cancer & Osteoporosis	Catherine Van Poznak, M.D., University of Michigan Comprehensive Cancer Center (USA) and Pamela Taxel, M.D., University of Connecticut Health Center (USA)	Clinical
Paget's Disease	Ethel Siris, M.D., Columbia University College of Physicians and Surgeons (USA)	Clinical
Imaging Measures of Fat and Muscle and their Relations to Vitamin D	Richard Kremer, M.D., Ph.D., McGill University, Royal Victoria Hospital (Canada) and Vicente Gilsanz, M.D., Children's Hospital Los Angeles (USA)	Translational

Follow the excitement
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Friday, October 12

Grant Writing Workshop: Writing a Persuasive Grant

Sponsored by the ASBMR Membership Development and Education Committees

10:00 am – 11:00 am

The ability to write a successful grant can determine the course of an investigator's career. A panel of experts made up of U.S. and international researchers will offer insights and tips on how to write a persuasive grant, the common mistakes that grant submitters make and the elements in a grant application that reviewers consider most important. U.S. and international investigators at all career levels are encouraged to attend this interactive forum that will focus on the universal aspects of successful grant writing. This session is a can't-miss opportunity for anyone writing a research grant or wanting to gain valuable insight into the grant-writing process.

Co-Chairs:

Wenhan Chang, Ph.D., University of California, San Francisco (USA), Membership Development Committee Chair

Marian Hannan, DSc, MPH, Hebrew SeniorLife and Harvard Medical School (USA), Education Committee Chair

Speakers:

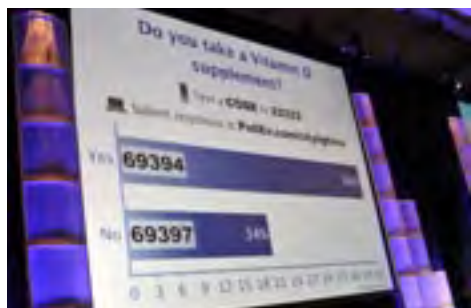
Rajesh Thakker, M.D., FRCP, University of Oxford (United Kingdom)

Nicola Partridge, Ph.D., New York University College of Dentistry (USA)

Panelists:

Hiroshi Kawaguchi, M.D., Ph.D., University of Tokyo (Japan)

John Adams, M.D., University of California, Los Angeles (USA)



Meeting Overview for Health Professionals

10:00 am – 11:00 am

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.

Co-Chairs:

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

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

Basic Science Meeting Overview

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

Clinical Science Meeting Overview

John Bilezikian, M.D., Columbia University College of Physicians and Surgeons (USA)

ASBMR/ECTS Clinical Debate – Patients with High FRAX Scores Experience Larger Reductions in Fracture Risk with Treatment than those with Lower FRAX Scores

3:30 pm – 4:30 pm

Co-Chairs:

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

Adolfo Diez-Perez, M.D., Ph.D., Autonomous University of Barcelona (Spain)

Debaters:

For Argument

Eugene McCloskey, M.D., MRCP, M.B., University of Sheffield (United Kingdom)

Against Argument

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

Follow the excitement and opportunities...

Saturday, October 13

Clinical Roundtable/Case Conference – Male Hormone Replacement Therapy in Osteoporosis

1:00 pm – 2:00 pm

Chair:

Jean-Marc Kaufman, M.D., Ph.D., University Hospital of Ghent (Belgium)

Effects of Testosterone Deficiency and Replacement on Bone Metabolism in Men

Joel Finkelstein, M.D., Massachusetts General Hospital (USA)

SERMS and Estrogens in Men

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

Leadership Session: Conversations with ASBMR Esteemed Award Winners

Sponsored by the Women in Bone and Mineral Research, Membership Development and Education Committees

1:00 pm – 2:00 pm

Hear from ASBMR Esteemed Award Recipients as they provide insights to their research and career development. Each recipient will briefly discuss their career and research, highlighting the challenges they faced and the key leadership strategies they used to achieve success. Audience members will have the opportunity to ask questions—don't miss this unique opportunity to hear directly from the leaders in the field.

Clinical Evening at ASBMR: Evidence-based Management of Osteoporosis

Supported by Educational Grants from Amgen, Inc., Lilly USA, LLC, Merck & Co., Inc. and Warner Chilcott Company, LLC.

Space is limited and available on a first-come, first-served basis. Attendees must be registered for the ASBMR 2012 Annual Meeting

5:30 pm – 8:30 pm

Co-Chairs:

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

Jane Cauley, Ph.D., University of Pittsburgh Graduate School of Public Health (USA)

Glucocorticoid-induced Osteoporosis and the ACR Guidelines

Karen Hansen, M.D., University of Wisconsin (USA)

Osteoporosis in Men and the Endocrine Society Guidelines

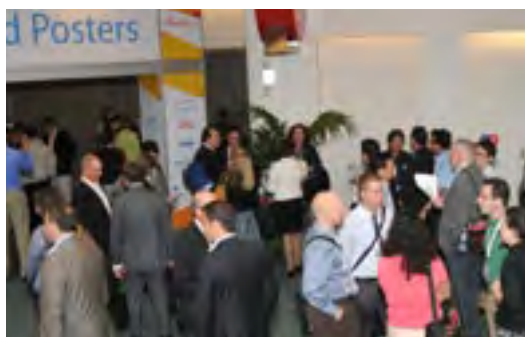
Peter Ebeling, M.D., FRACP, The University of Melbourne (Australia)

DXA BMD Testing Interval in Older Women

Margaret Gourlay, M.D., MPH, University of North Carolina (USA)

Kristine Ensrud, M.D., MPH, Minneapolis VA Medical Center/University of Minnesota (USA)

Follow the excitement and opportunities...



Special Sessions

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Contents

Sunday, October 14

Clinical Roundtable/Case Conference – Vitamin D and Repercussions of the IOM Report

1:30 pm – 2:30 pm

Supported by an educational grant from Lilly USA, LLC

Co-Chair:

Nancy Lane, M.D., University of California, Davis Medical Center (USA)

Salvatore Minisola, M.D., University of Rome (Italy)

Usefulness Vitamin D Assays

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

How Much Vitamin D Do We Need?

Susan Shapses, Ph.D., Rutgers University (USA)

Career Development – Secrets to Building a Great Research Team

Sponsored by the ASBMR Membership Development Committee and Women in Bone and Mineral Research Committees

1:30 pm – 2:30 pm

Building and maintaining a strong research team is a crucial career skill. This session, designed for investigators at all stages, will

address key elements that help forge great research teams, including the qualities of effective team leaders, the positive behaviors of good team members and the differences to consider when building a clinical vs. basic laboratory team. Following the panel there will be an interactive discussion. This session is a must-attend for investigators at all career stages and will provide practical, useful career development advice.

Co-Chairs:

Wenhan Chang, Ph.D., University of California, San Francisco (USA), Membership Development Committee Chair

Marian Hannan, DSc, MPH, Hebrew SeniorLife and Harvard Medical School (USA), Education Committee Chair

Speakers:

Lynda Bonewald, Ph.D., University of Missouri-Kansas City Dental School (USA)

Jack Martin, Ph.D., St. Vincent's Institute of Medical Research (Australia)

Kenneth White, Ph.D., University of Indiana School of Medicine (USA)

Follow the excitement and opportunities...

Monday, October 15

Clinical Roundtable/Case Conference – Parathyroid Hormone, Hyperparathyroidism and Hypoparathyroidism

1:30 pm – 2:30 pm

Chair:

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

Response to PTH in Hypoparathyroidism

Mishaela Rubin, M.D., Columbia University (USA)

Spectrum of Hyperparathyroidism

Leif Mosekilde, M.D., DMSc, Aarhus University Hospital (Denmark)

International Society for Clinical Densitometry		Working Groups	
Wednesday October 10	Thursday October 11	Friday October 12	Sunday October 14
7:15 am – 8:00 am On-site Registration and Sign-in*	7:30 am – 8:00 am Sign-in*	7:15 pm – 9:30 pm Nutrition Working Group	7:15 pm – 9:30 pm Pediatric Bone and Mineral Working Group
8:00 am – 6:00 pm Bone Densitometry Course for Clinicians and Technologists	8:00 am – 2:00 pm Bone Densitometry Course for Clinicians and Technologists	7:30 pm – 9:30 pm Muscle and Bone Working Group	7:15 pm – 9:45 pm Bone Strength Working Group
<i>*ISCD Courses require separate fees and registration</i>	<i>*ISCD Courses require separate fees and registration</i>	7:30 pm – 9:30 pm Working Group on Skeletal Aging	7:30 pm – 9:30 pm Bone Turnover Markers Working Group
	International Chinese Hard Tissue Society	7:30 pm – 10:00 pm Adult Bone and Mineral Working Group	7:30 pm – 9:30 pm Rare Bone Disease Working Group
	7:30 am – 8:00 am On-site Registration and Continental Breakfast	7:30 pm – 10:00 pm The CKD-MBD Working Group	7:30 pm – 9:30 pm Rheumatic Diseases and Bone Working Group
	8:00 am – 6:30 pm Webster S.S. Jee Musculoskeletal Summit Workshop		7:30 pm – 9:30 pm Working Group on Musculoskeletal Rehabilitation in Patients with Osteoporosis
	6:30 pm – 9:00 pm Reception and Banquet		

There are no programs scheduled for Saturday, October 13.

Please note that the International Society for Clinical Densitometry (ISCD) Courses, The International Chinese Hard Tissue Society Sessions and Working Groups are not part of the ASBMR 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. ASBMR expects that all authors and presenters affiliated with the ASBMR 2012 Annual Meeting and the 2012 Ancillary Program will provide informative and fully accurate content that reflects the highest level of scientific rigor and integrity.

ASBMR Expectation of Authors and Presenters

The 2012 Ancillary Programs are not part of the ASBMR Official Scientific Program. However, ASBMR expects that all authors and presenters affiliated with the ASBMR 2012 Annual Meeting and the 2012 Ancillary Programs will provide informative and fully accurate content that reflects the highest level of scientific rigor and integrity.

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.

Follow the excitement
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2012 Ancillary Programs

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Working Groups

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To round out an attendee's educational experience, 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 online. Waiting lists are not maintained for Working Groups that have met their attendance limit.

Friday, October 12

Nutrition Working Group

7:15 pm – 9:30 pm

Registration Fee: \$25

Supported by an educational grant from Dairy Research Institute

Role of Diet and Endocrine Factors Regulating Bone Due to Weight Change

An overview of weight loss and bone by Sue Shapses will be followed by presentations on: 1) diet and exercise interventions and bone during weight loss, by Stuart Phillips; 2) the role of leptin and PTH in regulating bone during weight change, by Irszula Iwaniec; 3) anorexia nervosa, by Michelle Warren; and 4) bone loss in adolescents after bariatric surgery, by Heidi Kalkwarf. A plated dinner will precede the program.

For further information, please contact:

Connie M. Weaver, Ph.D.

Purdue University, Nutrition Science

Tel: +1 (765) 494-8237

Email: weavercm@purdue.edu

Muscle and Bone Working Group

7:30 pm – 9:30 pm

Eighth Annual Meeting

Registration Fee: \$30

Muscle-Bone Relationships 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 four 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, Department of Radiology

Tel: +1 (905) 628-5677

Email: chrisgordon@sympatico.ca

Follow the excitement
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2012 Ancillary Programs

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Working Groups

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Friday, October 12

Working Group on Skeletal Aging

7:30 pm – 9:30 pm

Registration Fee: \$40

Aging and Skeletal Regulation of Metabolism

The program will consist of four talks and panel discussions on metabolism and the aging skeleton. Topics will include metabolic factors that influence skeletal aging (Jane Cauley, University of Pittsburgh), the skeleton as an endocrine organ regulating glucose metabolism (Stavroula Kousteni, Columbia University), the effects of caloric restriction on the skeleton (Lyndon Joseph, NIH/NIA) and bone-fat reciprocity with skeletal aging (Robert Pignolo, University of Pennsylvania). A panel discussion and audience participation will be moderated by one of the working group organizers. A dinner will precede the program.

For further information, please contact:

Robert J. Pignolo, M.D., Ph.D.

University of Pennsylvania

Tel: +1 (215) 573-1514 or +1 (215) 898-8653

Email: pignolo@mail.med.upenn.edu

Adult Bone and Mineral Working Group

7:30 pm – 10:00 pm

Registration Fee: \$40

Supported by an educational donation from Amgen and Alexion

The program will open with a brief historical vignette followed by 10–15 clinical abstract presentations. There will be a brief question-and-answer session following the abstract presentations. The session will conclude with the Presentation of the Boy Frame Award for Clinical Excellence in the Field of Bone and Mineral Research, which is awarded to the senior author of a presented abstract based on overall merit as judged by the Adult Bone and Mineral Working Group Chair and Co-Chairs prior to the meeting.

For further information, please contact:

Fergus E. McKiernan, M.D.

Center for Bone Diseases, Marshfield Clinic

Tel: +1 (715) 389-7730

Email: mckiernan.fergus@marshfieldclinic.org

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2012 Ancillary Programs

Working Groups

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Friday, October 12

The CKD-MBD Working Group

7:30 pm – 10:00 pm

Registration Fee: \$20

Updates on Pi, FGF23, and VDRA in the CKD-MBD

The program will consist of three talks followed by selected abstract presentations which will be chosen from the ASBMR poster program. Topics will include Status of Pi as a CV risk factor (Sharon Moe, Indiana University), Status of FGF23 - uremic toxin or risk factor (Myles Wolf, Massachusetts General Hospital), and Prospective analysis of VDRA therapy on CV risk – The Primo Study (Ravi Thadhani, Massachusetts General Hospital Harvard University). A plated dinner will precede the program.

For further information, please contact:

Keith A. Hruska, M.D.

Washington University in St. Louis School of Medicine

Tel: +1 (314) 286-2772

Email: hruska_k@kids.wustl.edu

and

Sharon Martin Moe, M.D.

Indiana University

Tel: +1 (317) 278-2868

Email: smoe@iupui.edu

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2012 Ancillary Programs

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Working Groups

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Sunday, October 14

Pediatric Bone and Mineral Working Group

7:15 pm – 9:30 pm

Registration Fee: \$35

Bone and Mineral Issues in Pediatric Patients with Chronic Kidney Disease

The working group will begin with Opening Remarks from the Session Chair, Dr. Erik Imel, Indiana University. The program will consist of five talks, covering the following topics: 2012-The Year in Pediatric Bone Disease; Pediatric Chronic Kidney Disease-Mineral Bone Disorders: Importance of Phosphotropic Hormones; Pediatric Chronic Kidney Disease-Mineral Bone Disorders: Effects on Skeletal Structure and Microarchitecture; Treatment of Bone Disease in Pediatric Patients with CKD; and Bone Disease in the Pediatric Kidney Transplant Recipient. A plated dinner will precede the program.

For further information please contact:

Erik A. Imel, M.D.

Indiana University School of Medicine

Email: eimel@iupui.edu



Bone Strength Working Group

7:15 pm – 9:45 pm

Registration Fee: \$25

Sponsored by the Canadian Bone Strength Working Group

Supported by unrestricted educational grants from Amgen Canada Inc. and Lilly Canada Inc.

This program will be co-chaired by Robert Josse, M.D., University of Toronto, and Jacques Brown, M.D., Laval University. The program will begin with a welcome and introduction from Angela Cheung, M.D., Ph.D., University of Toronto, followed by presentations of top abstracts that the working group will select from the ASBMR Poster Program. The abstract presentations will be followed by a Keynote Debate entitled “Long-term Antiresorptive Therapy is Harmful to Bone Strength.” Dr. Cyrus Cooper will be debating “For” the argument and Dr. Michael McClung will be debating “Against.” After the debate there will be time set aside for questions and discussion/final vote. The working group will end with concluding remarks from Dr. Richard Kremer, M.D., Ph.D., McGill University. A plated dinner will precede the program.

For further information, please contact:

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

McGill University Health Center

Tel: +1 (514) 843-1632

Email: richard.kremer@mcgill.ca

or

Angela Cheung, M.D., Ph.D.

University of Toronto

Tel: +1 (416) 340-4301

Email: angela.cheung@uhn.on.ca

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Working Groups

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Sunday, October 14

Bone Turnover Markers Working Group

7:30 pm – 9:30 pm

Registration Fee: \$30

Bone Markers and their Role in Diabetes

The meeting will cover bone markers and the potential interaction between bone turnover and disturbances in glucose homeostasis. In this respect, osteocalcin has earned most interest over the past years. In addition, vitamin D appears to play an important role as a player with effects on tissues beyond bone and hence linking bone to adipose tissue but also on through immune function. Questions to be addressed include: Can bone markers predict increased risk of bone loss in association with diabetes? Can bone markers be used to monitor treatment efficacy or identify risk of side-effects with anti-diabetic drugs? What information can be gained by combining established bone markers with novel metabolic markers: sclerostin, adiponectin, Fetuin-A, advanced glycation end products (AGEs)/pentosidine, in diabetes-associated bone alterations?

For further information, please contact:

Kristina Akesson, M.D., Ph.D.

Lund University, Skåne University Hospital

Tel: +46 40 33 2370

Email: kristina.akesson@med.lu.se

Rare Bone Disease Working Group

7:30 pm – 9:30 pm

Registration Fee: \$25

Rare Bone Disease Research – Present and Future

This working group will be led by Dr. Jay Shapiro, Director of the Osteogenesis Imperfecta Clinic at Kennedy Krieger Institute and Professor, Department of Physical Medicine and Rehabilitation, at Johns Hopkins University. Experts from the rare bone disease community, including but not limited to osteogenesis imperfecta, fibrous dysplasia, melorheostosis, multiple hereditary exostoses, XLH, hypophosphatasia, fibrodysplasia ossificans progressiva and Gorham's Disease, will present information on current research being conducted and the opportunities for scientists to engage in new research in any one of these disease areas. Experts will discuss ways rare bone research in one area could benefit and/or accelerate the research in another area. There will be ample time for questions and discussion. A light dinner will be served.

For further information please contact:

Tracy Hart

Rare Bone Disease Patient Network

Email: thart@oif.org

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2012 Ancillary Programs

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Working Groups

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Sunday, October 14

Rheumatic Diseases and Bone Working Group

7:30 pm – 9:30 pm

Registration fee: \$50

The Bone Component of Osteoimmunology

The invited speakers and topics include: Thomas Einhorn on Inflammation and Bone: Lessons from Fracture Healing; Ellen Gravelle on Rheumatoid Arthritis: What Happens in Bone Marrow?; and Piet Geusens on Ankylosing Spondylitis: Effects of Biological on Osteitis and Syndesmophytes. A light dinner will be served.

For further information please contact:

Piet Geusens, M.D., Ph.D.

University Hasselt

Email: piet.geusens@scarlet.be

Working Group on Musculoskeletal Rehabilitation in Patients with Osteoporosis

7:30 pm – 9:30 pm

14th Annual Meeting

Registration Fee: \$25

Non-pharmacologic Management of Osteoporosis

The program will be selected by Core 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), Treatments (Non-pharmacological treatment) and Hip Fracture Rehabilitation. In addition, special lectures highlighting new developments in our field will be given. These lectures will be invited by the scientific committee of our group ("Core Members").

For further information, please contact:

Mehrsheed Sinaki, M.D.

Mayo Clinic and Mayo Clinic College of Medicine

Tel: +1 (507) 284-2608

Email: sinaki.mehrsheed@mayo.edu

and

Michael Pfeifer, M.D.

Institute of Clinical Osteology Gustav Pommer

and Medwiss Bad Pyrmont

Telephone: +49-5281-151414

Email: mdrpfeifer@aol.com

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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 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 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 will take place on Wednesday and Thursday, October 10-11:

Clinician Track (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 Track (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.

The International Chinese Hard Tissue Society (ICHTS) Webster S.S. Jee Musculoskeletal Summit Workshop

Thursday, October 11, 2012

The ICHTS Webster S.S. Jee Musculoskeletal Summit Workshop aims to provide high-level research exchanges among senior ICHTS investigators, help career and research advances of young investigators and fundraise for the Webster S.S. Jee Endowment for supporting future young ICHTS members. This is a unique Summit Workshop that allows senior ICHTS

members to have in-depth exchanges in science and discoveries in musculoskeletal research and provides an excellent forum for young ICHTS investigators to participate and interact with senior ICHTS members. To register for this workshop and for more meeting details, visit www.ichts.org.

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American Bone Health – Walk Tall for Life

Commit 2.6 k to your bone health

Saturday, October 13, 2012 at 8:00 am

10 Southdale Center, Edina, MN 55435

American Bone Health is organizing a 2.6 kilometer walk for the local community at Southdale Mall in Edina, just 20 minutes south of the Convention Center! The route honors our 26 spine bones and is a reminder to protect them from fractures. Participants will complete the circuit and learn bone healthy exercises

along the way. The walk will be followed by a free health fair featuring informational booths.

The walk and health fair are free of charge. The first 500 participants who register will receive a free t-shirt. Pre-registration is encouraged, but registration will also be available the morning of the event. For more information about Walk Tall for Life, please visit www.americanbonehealth.org or call +1 (888) 266-3015.

Fit to a T

A FREE public education program on bone health and osteoporosis

Monday, October 15, 2012

10:00 – 11:00 am

Heritage Park YMCA
1015 4th Ave North
Minneapolis, MN

The US Bone and Joint Initiative (USBJI) is offering *Fit to a T*, a free public education seminar on Bone Health and Osteoporosis for people in the Minneapolis community at the time of the ASBMR Annual Meeting. *Fit to a T* is an educational program developed by members of the USBJI in response to the Surgeon General's first-ever report on bone health and osteoporosis, designed to help the public learn more about bone health,

as well as the prevention, early detection, diagnosis and treatment of osteoporosis.

Fit to a T is aimed at men and women of all ages, particularly those who have had or are at risk of having a broken bone. The goal of the seminar is to teach people the necessary steps to prevent or slow down bone disease before they break a bone, to help people make lifestyle changes if they have already broken a bone and to decrease the risk of another fracture.

Handouts will be provided at the event. This is a free seminar but pre-registration is required—[register online](#) or call +1 (855) 477-2663 (toll free), or +1 (847) 430-5054.

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2012 Supporters

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Special thanks to our 2012 Supporters for their participation in the ASBMR Annual Meeting

(As of July 2012)

Diamond Level



Answers That Matter.

Gold Level



Bronze Level



Friend Level



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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 discounts available through Thursday, August 16.

Registration Fees

	On or before August 16, 2012	On or after August 17, 2012
ASBMR Members	\$340	\$465
Non-Members	\$630	\$755
Resident, Student, Fellow – ASBMR Member	\$205	\$255
Resident, Student, Fellow – Non-Member*	\$295	\$345
Allied Health Professional**	\$295	\$345
Spouse/Guest	\$40	\$50
Social Event (Saturday, Oct 13)	\$30	\$30
Meet-the-Professor Handout Booklet	\$10	\$10
Speed Networking Event (Friday, Oct 12)	\$35 (\$15 students)	\$35 (\$15 students)
Abstract Book (available for pick-up on site)	\$25	\$25
Continuing Medical Education Credits	\$50	\$50

* 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.

** 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.

ASBMR Members Receive Valuable Savings

Join [ASBMR](#) prior to the Annual Meeting and receive nearly \$300 off the cost of meeting registration. But registration savings isn't all you'll get—ASBMR members receive year-round benefits including a subscription to the *Journal of Bone and Mineral Research*, access to members-only online content, opportunities to become involved in Society thought leadership and much more. Become a part of the world's foremost society for bone and mineral researchers and clinicians—check out our membership criteria and [join today](#).

What's Included With Registration Fees?

Registration fees entitle the registrant to admission to all sessions, the ASBMR Discovery Hall, Friday's Welcome Reception, all coffee breaks,

a digital copy of the 2012 *Abstracts* book and access to the abstracts online and itinerary builder. An additional ticket and fee is required for all Working Groups, the Social Event, the Speed Networking Event, a printed/bound copy of the 2012 *Abstracts* book, the Meet-the-Professor Handout Booklet and CME credits.

Abstracts Book

A limited number of 2012 *Abstracts* books will be printed and available for purchase and pick-up on site in Minneapolis. To obtain a copy, you must order it in advance through the registration form on or before Wednesday, August 29. The price of the book is \$25 USD. The 2012 *Abstracts* book will also be available in PDF format for download in advance of the meeting at no charge to members and meeting attendees. The abstracts will also be available at no charge on the ASBMR mobile application.

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Registration Information

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Meet-the-Professor Booklet

The Meet-the-Professor 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 Center. Handout Booklets will also be available in PDF format for download in advance of the meeting at no charge to members and meeting attendees.

What Are Benefits of Registering Before August 16?

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

On-site Registration in Minneapolis

Registration desks will be open for new registrants and material pick-up in the Minneapolis Convention Center during the following hours:

Thursday, October 11	12:00 pm – 6:00 pm
Friday, October 12	7:00 am – 7:00 pm
Saturday, October 13	7:00 am – 5:30 pm
Sunday, October 14	7:30 am – 5:00 pm
Monday, October 15	7:30 am – 5:00 pm

Refunds/Substitutions

Refunds will be made if cancellation is received in writing by August 16, 2012. Spouse/Guest fees, Working Group ticket fees and Social Event tickets are non-refundable. Only current members at the time of registration are eligible for discounted member registration rates. ASBMR does not refund the difference in registration fees paid by individuals who register as non-members and later apply/are accepted as members. All refunds will be processed after the Annual Meeting and will be assessed a \$100 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 August 16, 2012. 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/posters 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 Discovery Hall at any time. There are no exceptions to this policy. If child care is required, please make arrangements in advance. ASBMR Annual Meeting participants must abide by the Society's policy on re-use of meeting materials, which may be found on the [ASBMR website](#).

Spouse/Guest Admission

A badge for spouses and/or other guests may be obtained for a \$40 fee paid on or before August 16. The fee will increase to \$50 after August 16. This fee includes admission to the Welcome Reception on Friday, October 12, as well as to the Discovery 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. To register a group of 10 or more, email asbmr@showcare.com for group registration instructions.

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Questions?

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

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

ASBMR has reserved rooms in the hotels listed on pages 41–42 for your use. Reservations for these hotels must be made through the ASBMR Housing Bureau.

The Hotel Reservation Deadline is Wednesday, September 12, 2012.

Why Book in the ASBMR Housing Block?

Booking your reservation outside of the ASBMR block of rooms via Internet travel sites or by not mentioning to the reservationists that you are with ASBMR has a long-term negative impact on the ASBMR meeting. The amount 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 impacts the rates ASBMR can 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.

As an extra incentive to book with ASBMR, ASBMR has worked with several of the hotels in Minneapolis to provide extra benefits just for our attendees, including complimentary or discounted Internet access for guests who booked through the ASBMR Housing Bureau.

ASBMR International Group Housing

ASBMR International Groups Department (ASBMR IGD) offers international groups and sponsors official group housing blocks for the ASBMR Annual Meetings. Take advantage of our all-inclusive travel packages that include preferred properties, breakfast, portage, gratuities and your own personal multilingual meeting planner from online to on site; all at the lowest possible rates. Visit www.asbmr-igd.com or email ASBMRgrouphousing@asbmr-igd.com for more information.

ASBMR US Group Housing

ASBMR has special group housing forms/reservation processes available to those groups requiring five or more hotel rooms during the ASBMR 2012 Annual Meeting. To block rooms for groups of five or more people coming from the United States, please contact Jessica Klapstein, ASBMR Housing Coordinator, at jklapstein@asbmr.org.

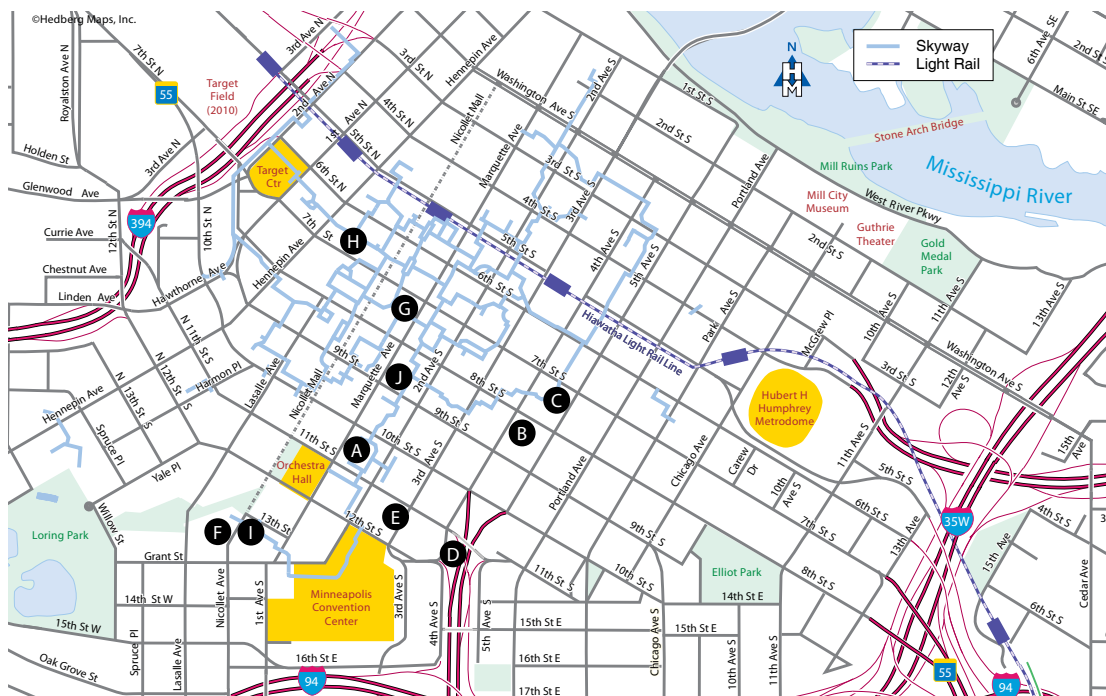
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Hotel Information

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Hotel Locations



Location	Hotel
A	Headquarter Hotel: Hilton Minneapolis 1001 Marquette Avenue, Minneapolis, MN 55403
B	Best Western Plus Normandy Inn & Suites 405 South 8th Street, Minneapolis, MN 55404
C	Comfort Suites 425 South 7th Street, Minneapolis, MN 55415
D	Hilton Garden Inn Minneapolis Downtown 1101 4th Avenue South, Minneapolis, MN 55404
E	Holiday Inn Express & Suites Downtown Minneapolis Convention Center 225 South 11th Street, Minneapolis, MN 55403
F	Hyatt Regency Minneapolis 1300 Nicollet Mall, Minneapolis, MN 55403
G	The Marquette Hotel 710 Marquette Avenue, Minneapolis, MN 55402
I	Millennium Hotel Minneapolis 1313 Nicollet Mall, Minneapolis, MN 55403
H	Minneapolis Marriott City Center 30 South 7th Street, Minneapolis, MN 55402
J	W Hotel 821 Marquette Avenue, Minneapolis, MN 55403

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Hotel Comparison Chart

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Hotel	Rate*	Distance to Convention Center			Mobile Rating	AAA Rating	Internet Cost (24 Hours)**	Fitness Facility	Spa	Indoor Pool	Additional Amenities
		Miles	Blocks	Walk (mins)							
Headquarter Hotel: Hilton Minneapolis 1001 Marquette Avenue Minneapolis, MN 55403	\$213 Single/ \$223 Double	0.2	2	5	★★★	◆◆◆	Free	Yes	Yes	Yes	Hotel is connected to the convention center via enclosed skyway for your comfort and is within walking distance to Nicollet Mall for dining, shopping and entertainment.
Best Western Plus Normandy Inn & Suites 405 South 8th Street Minneapolis, MN 55404	\$119	0.4	5	8	★★★	◆◆◆	Free	Yes	Yes	Yes	Hotel offers complimentary shuttling to and from convention center. Cookies and milk served nightly at 10 pm.
Comfort Suites 425 South 7th Street Minneapolis, MN 55415	\$125	0.5	5	9	★★★	◆◆◆	Free	Yes	No	Yes	Complimentary breakfast included in rate. All suites have separate living rooms, microwave and refrigerators.
Hilton Garden Inn Minneapolis Downtown 1101 4th Avenue South Minneapolis, MN 55404	\$144	0.2	2	5	★★★	◆◆◆	Free	Yes	No	Yes	Hotel features business center and guest laundry on site.
Holiday Inn Express & Suites Downtown Minneapolis Convention Center 225 South 11th Street Minneapolis, MN 55403	\$144	0.2	1	3	★★★	◆◆ ½	Free Wireless	Yes	Yes	Yes	Breakfast included in rate (6:30 am - 9:30 am). Also enjoy free local and 800 number phone calls.
Hyatt Regency Minneapolis 1300 Nicollet Mall Minneapolis, MN 55403	\$199 <small>Government Per Diem Rates Available</small>	0.3	2	5	★★★	◆◆◆	Free	Yes	Yes	Yes	Renovations were completed in May 2012.
The Marquette Hotel 710 Marquette Avenue Minneapolis, MN 55402	\$140	0.5	5	9	n/a	◆◆◆◆	\$6.50 (50% off standard prices)	Yes	No	No	The hotel is skyway-connected to the convention center as well as to shopping, parking garages, restaurants, bars, attractions and other hotels.
Millennium Hotel Minneapolis 1313 Nicollet Mall Minneapolis, MN 55403	\$159	0.3	1	5	★★★	◆◆◆	\$9.95	Yes	No	Yes	Full service hotel with Nic's on Nicollet restaurant and Martini's Lounge. Hotel has a gift shop and business center on site as well.
Minneapolis Marriott City Center 30 South 7th Street Minneapolis, MN 55402	\$159	0.6	7	12	★★★	◆◆◆	\$14.95	Yes	No	No	Hotel also provides in-room coffee, safe deposit boxes and room service.
W Hotel 821 Marquette Avenue Minneapolis, MN 55403	\$199	0.4	6	8	n/a	◆◆◆◆	Free	Yes	No	No	Features spectacular views of the skyline and lush landscapes, as well as the signature W bed and fully wired technology.

* Does not include taxes.

** Complimentary and discounted internet services are only for ASBMR guests who book through the ASBMR Housing Bureau.

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Travel Information

The main airport to the area is the Minneapolis-St. Paul International Airport (MSP). The airport is located approximately 13 miles (a 20-minute drive) from the downtown Minneapolis hotels and convention center. The airport is a hub for Delta Airlines but is serviced by more than 13 domestic and international airlines and has more than 1,100 daily arriving flights.

Discount Air Travel and Car Rental Information

ASBMR has partnered with Tower Travel and Delta airlines to provide discounted airfare and car rental for the 2012 Annual Meeting. To book directly with Delta, visit www.delta.com or call +1 (800) 328-1111. The ASBMR meeting event code is **NME72**. To book a flight with any airline or to reserve a car, contact Tower Travel (see below).

Tower Travel Online:

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

You will be guided through setting up a user name/password to access the discounts. Please use ASBMR489 as the security key when setting up your travel account.

Telephone: +1 (888) 886-7656 or +1 (630) 928-7144 – Mention the ASBMR 2012 Annual Meeting

Email: travel@towertravel.com

For assistance in confirming the least expensive travel rate, contact Tower Travel. Reservation lines are open from 6:00 am to 10:00 pm, Monday through Friday CST and 9:00 am to 1:00 pm CST on Saturdays.

Airport Ground Transportation

Discounted Airport Shuttle Service

Use the ASBMR discount for SuperShuttle between the Minneapolis-St. Paul International Airport (MSP) and the downtown hotels. ASBMR attendees receive an \$8 discount on the round trip fare, making your ticket price \$24 plus any fuel surcharges. You will receive a \$1 discount on any one-way fare. [Reserve your space online](#),

or call +1 (800) 258-3826 and ask for the ASBMR discount, but please note there is an additional fee for booking by phone.

Airport Taxicab Service

Taxicabs at the airport are plentiful. Fares from the airport are metered and non-negotiable. Expect the fare from the airport to the ASBMR hotels to be approximately \$40 plus tip.

Light Rail

Minneapolis offers light rail transit between the airport and downtown. One-way fares are less than \$3.00 and the downtown rail stops range from 2-8 blocks from the hotels and convention center. For more information [visit the light rail website](#).

Special Needs

We want to ensure that you enjoy ASBMR's 2012 Annual Meeting. If, due to a disability, you have any special needs, please contact ASBMR at asbmr@asbmr.org or +1 (202) 367-1138 and we will do our best to assist you.



Wheelchair Rentals

For scooter and wheelchair rentals for your entire stay, contact Scootaround, Inc., at their toll-free hotline: +1 (888) 441-7575. You can also submit a rental inquiry via their [website](#). Please make sure to tell them you are with the ASBMR 2012 Annual Meeting. Wheelchair rentals are also available directly from the Minneapolis Convention Center for daily or hourly use on the convention center premises. For more information call +1 (888) 404-5554 or visit www.themobilityshop.com.

Child Care Services

ASBMR makes no endorsement of any providers and accepts no liability should you employ child care services while in Minneapolis. Please note: Children under 12 years of age are not permitted in any ASBMR meeting, session rooms or Discovery/Poster Hall at any time. For more information about child care providers in Minneapolis [click here](#), or contact your hotel concierge or contact ASBMR at +1 (202) 367-1138.

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