

CRANIOFACIAL BIOLOGY GROUP PRESIDENT'S REPORT, 2014-2015

Greetings! The Craniofacial Biology Group (CBG) has been busy and productive over this past year. We met for the AADR meeting in Charlotte, NC in March of 2014 and then for IADR in Cape Town, South Africa in June of 2014. We are now looking forward to the combined AADR/IADR/CADR meeting, which will take place in Boston, MA in March of 2015. Boston is shaping up to be an outstanding meeting for us. CBG activities for the upcoming meeting are listed in the latter half of the newsletter. We certainly hope to see you there!

Review of 2014 CBG Activities:

The program of scientific events this past year was overseen by myself (Nan Hatch) for both the AADR and IADR meetings, serving in my capacity as the 2014 CBG President-elect and Group Program Chair. In this effort, I



received tremendous support from the CBG executive committee, CBG Directors and a group of dedicated abstract reviewers. I would like to extend a special thanks to Erin Ealba, Heesoo Oh, Wanida Ono, Juan Palomo, Rody Wellington, Zongyang Sun and Eser Tufekci for serving as reviewers for the AADR meeting; and Noriaki Ono, Mani Alikhani, Xiu-Ping Wang, Jeffrey Bush, Conchita Martin, Lorri Morford, Prem Premaraj and Christian Solem for serving as reviewers for the IADR meeting.

We had two oral symposia at the 2014 meetings. Symposia topics are selected on a competitive basis and thus undergo a central review process. Symposia organizers frequently seek additional funding to support outstanding speakers who may not be regular members of AADR/IADR. Towards these efforts we have been very fortunate to receive corporate support from various organizations, including the Consortium for Translational Orthodontic Research (CTOR) and Colgate-Palmolive.

2014 AADR Symposium: *Biomarkers in Gingival Crevicular Fluid (GCF): Current Paradigm Shifts in Dentistry.*
Organizer: Wellington Rody

2014 IADR Symposium: *Animal models for Bisphosphonate-Related Osteonecrosis of the Jaw.*
Organizer: James Borke

We had two keynote speakers for 2014 and are very grateful to these notable scientists for sharing their knowledge and expertise.

2014 AADR Keynote Address: L.A. OPPERMAN of Texas A&M University, Baylor College of Dentistry, Dallas, TX. *Translational Research and Technology Transfer in Craniofacial Development.*

2014 IADR Keynote Address: Yuji Mishina of the University of Michigan, School of Dentistry, Ann Arbor, MI. *BMP Signaling in Neural Crest Stem Cells; a Potential Cause of Craniosynostosis and Skull Deformity.*

We also held our Sarnat (Senior Category) and CBG (Junior Category) Award competitions in Cape Town at the IADR meeting. These competitions encourage participation and relevant research by junior investigators. Thanks go to Ophir Klein, 2014 CBG Vice-President, for organizing the competitions. We are also grateful to an excellent panel of judges, including Tom Diekwisch, Sneha Oberoi, Lorri Morford, Jim Borke, Prem Sundaralingam, and Jim Hartsfield. Although a few of the finalists were not able to attend the meeting in Cape Town, we had a nice turnout with strong pools of presenters in both the junior and senior categories. The Bernard Sarnat Award is supported by a gift from the Bernard Sarnat Foundation. We sincerely thank the Consortium for Translational Orthodontic Research (CTOR) and Dentaid for providing additional support for these awards. The efforts of Geoff Guttman, CBG Secretary/Treasurer have also been essential in facilitating strong CBG relationships to external sponsors. Thank you Geoff, for moving our finances to IADR headquarters, raising funds to support CBG activities and working to grow the Sarnat endowment.

2014 Sarnat Award Winner:

Maryam Khatibi Shahidi of the Karolinska Institutet, Stockholm, Sweden. *Peripheral Nerve Glia Contributes Mesenchymal Stem Cells During Tooth Development.*

2014 Sarnat Honorable Mention:

Husein Alomer of the University of British Columbia, Vancouver, BC, Canada. *Palatal Epithelial Seam Fate With Over-Expression Of Smad2.*

2014 Craniofacial Biology Group Award Joint Winners:

Karim M. Fawzy of the Universitätsklinikum Schleswig Holstein, Klinik für Zahnerhaltung und Parodontologie, Kiel, Germany. *Validity of STRO-1+/MACS-Technique for the Isolation G-MSCs.*

Kelsey M. Riffel of the University of Missouri, Kansas City, MO. *Gender Differences in Jaw Muscle Duty Factors During Leg-extension Exercises.*



2014 CFB Executive Committee with Sarnat and CBG Award Winners: Left to right: Immediate-Past President Laura Iwasaki, Secretary-treasurer Geoff Guttman, Sarnat Award Winner Maryam Khatibi Shahidi, CBG Award Winner Karim M. Fawzy, Sarnat Honorable Mention Awardee Husein Alomer, CBG Award Winner Kelsey Riffel, President-Elect Nan Hatch, Vice-President Ophir Klein. Unable to attend: President Saran Huja. *Big thanks to Jeff Nickel (University of Missouri, Kansas City) for providing photos!

Anticipated 2015 CBG Activities:

We look forward to an exciting and informative program of events at the upcoming 2015 IADR/AADR/CADR General Session to be held in Boston from MA, March 11-14, 2015. Many thanks for this go out to Ophir Klein, our 2015 President-elect and Group Program Chair, and his team of abstract reviewers: Laura Iwasaki, Julio Villanueva Maffei, Sneha Oberoi, Pam Yelick, Jim Hartsfield, Conchita Martin Alvaro, Hu Zhao and Andrew Jheon.



Our keynote speaker is James Hanken. Dr. Hanken is a Professor of Zoology and Director of the Museum of Comparative Zoology at Harvard University. He will give the keynote address on, "Evolutionary innovation and conservation in the embryonic derivation of the vertebrate skull."

Other special events sponsored/co-sponsored by the CBG include the Hands on Workshop presentation entitled: "Construction and superimposition of 3D surface models" by Lucia Cevitanes. This should be a great opportunity to learn current techniques for 3D craniofacial image analysis by a leader in the field.

We also have three highly anticipated Oral Symposia scheduled for the Boston meeting. Symposia are another great opportunity for our membership to develop a collaborative team and explore an idea or topic of

their interest. Any member of the CBG group can organize an oral symposium for AADR, IADR or combined AADR/IADR meetings!

- “Biom mineralization with a twist – novel insights from animal models.” Organizer: Dobrawa Napierala
- “Animal models for craniofacial development and disease.” Organizer: Ophir Klein
- “Novel approaches for dental, oral and craniofacial tissue regeneration.” Organizer: Pamela C. Yelick

Thanks go to Sunil Wadhwa, current Vice-president, who organized the Sarnat and CBG junior investigator awards competitions for 2015. He is aided by his dedicated team of reviewers/judges: Sumit Yadav, Aditya Chhibber, Shankar Venugopalan and Sneha Oberoi. Please plan to attend the Sarnat and CBG award finalists' poster session in Boston to support these up-and-coming investigators.

We are also extremely grateful for receiving support from three sources in addition to the Bernard Sarnat Foundation for 2014/2015. We would like to thank **Dentaid** for support of the junior investigator Craniofacial Biology Group Award, **Colgate-Palmolive** for support of oral symposia and the **Consortium for Translational Orthodontic Research (CTOR)** for support of both our junior investigator competitions and oral symposia. These donations undoubtedly strengthen CBG activities.

It has been a pleasure to work with the 2014 and 2015 Executive Committee members: Saran Huja (2014 President, 2015 Past-President), Ophir Klein (2014 Vice President, 2015 President-Elect), Sunil Wadhwa (2015 Vice President) Geoffrey Guttmann (Secretary/Treasurer), Sylvia Frazier Bowers (Councilor) as well as Conchita Martin, Mani Alikhani, Martin Palomo, and Sundaralingum Premaraj, Lorri Morford, James Borke (2014 Directors) and James Borke, Lorri Morford, Sundarlalingam Premaraj, Yijin Ren and Eser Tufekci (2015 Directors). This Committee works tirelessly to serve the Craniofacial Biology Group and welcomes input from the membership – so please do let us know your ideas and suggestions. The mainstay of the CBG remains the scientific programs that its committee puts together for the AADR and IADR. This helps to advance knowledge within our organization and beyond.

2015 looks to another outstanding year for the Craniofacial Biology Group (CBG) thanks to member and sponsor support, plus the efforts of our hard-working Executive Committee. Please consider nominating someone or yourself for one of the open positions in the upcoming election. Active group participation is essential to our continued success. The future of the CBG depends on this! The next CBG Business Meeting will be held at the 2015 AADR/IADR/CADR meeting in Boston, with a reception to follow. Please watch for forthcoming details regarding the locations and plan to attend both events.

I look forward to seeing you in Boston!

Sincerely,

Nan Hatch
President, IADR Craniofacial Biology Group

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Craniofacial Biology Group Meeting: IADR 2014, Cape Town South Africa

Approximately 70 members of the CFB group gathered in Cape Town to discuss matters of concern. Elections of new officers for 2014-2015 were announced. New executive members are Sunil Wadwha, Vice-President, Yijin Ren (Director 2014-2017) and Eser Tüfekçi (Director 2014-2017).

**Executive Officers
(2013-2014) L-R: Laura Iwasaki (Immediate Past-President, University of Missouri Kansas City), Nan Hatch (President-Elect, University of Michigan), Ophir Klein (Vice-President, University of California San Francisco), Geoff Guttman (Secretary-Treasurer, University of North Texas Health Science Center)**



A wide ranging discussion was encouraged, including the need to increase the number of individuals involved in clinical and translational research.



Don't forget your "drinks" ticket and business meeting agenda!



CBG gives a big thank-you to Jeff Nickel (University of Missouri, Kansas City) for this great pictorial of CBG activities in Cape Town.