



IADR

International Association
for Dental Research

Craniofacial Biology Research Group

CRANIOFACIAL BIOLOGY GROUP: 2018 WINTER UPDATE

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INVITE A COLLEAGUE TO TAKE A CLOSER LOOK AT OUR GROUP BY SHARING OUR NEWSLETTER

The primary purpose of the Craniofacial Biology Group (CBG) is to promote excellence in clinical, translational and basic science research focused on the craniofacial complex. Members of our group come from a broad range of research backgrounds including anatomy and neurobiology; cellular and molecular biology; developmental biology; dental materials; genetics;



general dentistry; mineralized tissue, orthodontics; oral facial pain; oral and maxillary surgery; pathology; pediatric dentistry; periodontology; radiology; restorative dentistry and restorative medicine. We believe that this purposeful diversity of interests and training among our members helps to foster the following: cross-pollination of information between specialties; generation of collaborative research; creation of mentoring opportunities; and discussion of new and innovative ways to study oral health and disease.

The CBG supports and provides a forum for research including, but not limited to, molecular and biochemical control of dental and craniofacial growth and development; etiology, diagnosis and treatment of craniofacial anomalies; etiology, diagnosis and treatment of malocclusion; three-dimensional imaging of craniofacial structures; temporomandibular joint disorders; development of biomarkers of health and disease, animal models of craniofacial development and more.

For more information, see our website:

<http://www.iadr.org/IADR/Join-Renew/Groups-and-Networks/Craniofacial-Biology-Research>

Greetings from the CBG President

It is with great enthusiasm that I greet everyone to share the exciting news of what's been happened in the past year! Last year's AADR meeting in Fort Lauderdale, Florida and the IADR meeting in London, England were both tremendous successes. In addition, this newsletter contains important information regarding a NEW ORTHODONTIC & CRANIOFACIAL CLINICAL TRANSLATIONAL RESEARCH AWARD COMPETITION taking place for the first time at the 2019 IADR meeting in Vancouver, British Columbia Canada. Learn more in the pages that follow....

I hope to see everyone in Vancouver!

Sincerely,

Lorri Morford, CBG President



In Fort Lauderdale, the Keynote address for our group was given by Ophir Klein of UCSF on **March 23** and was entitled **“What big teeth you have: the rodent incisor as a model for adult stem cell biology”**. For the meeting, we received a total of 106 abstract submissions which lead to 16 oral presentations, 79 poster presentations, and 11 of the abstracts were chosen to compete on-site into either the “Hatton Competition” or the “Student Competition for Advancing Dental Research and its Application” (SCADA). The CBG sponsored or co-sponsored three symposia and one “Lunch & Learn” session in Florida:

- * Life and Re-birth of Odontoblasts: Biology and Clinical Implications
- * Dental Oral Craniofacial Tissue Regeneration Consortium (DOCTRC): A New Translation Paradigm
- * Novel Insights into the Role of Proteoglycans in Mineralized Tissues
- * Machine Learning in Digital Dentistry: Transforming Diagnostics and Clinical Practice – Lunch and Learn

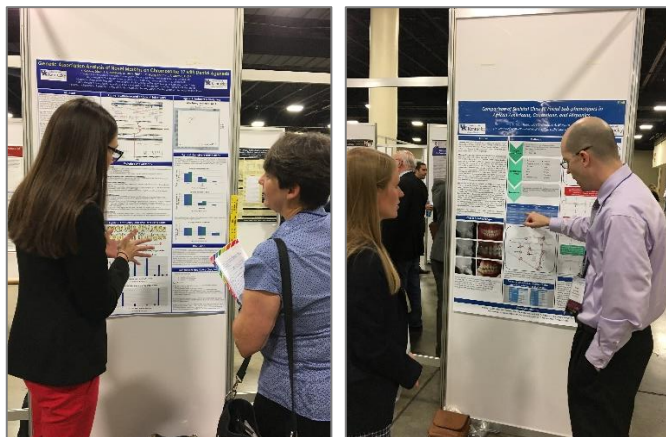
The IADR meeting in London, England was also a fantastic success. Our

Keynote address was given by Mary Marazita of the University of Pittsburgh on Friday July 27th and was entitled **“Genomic and Phenotypic Studies in Orofacial Cleft Families.”** In the Keynote address, Dr. Marazita shared how her group and others have discovered a variety of genomic regions associated with orofacial clefts, how they have identified functional variants at some of these regions and have begun to tease out specific risk factors for specific OFC subtypes and sub-clinical phenotypes.



For the meeting, we received a total of 89 abstract submissions, which led to 22 oral presentations, 67 poster presentations. The CBG sponsored or co-sponsored six symposia. See below:

- * From Basic to Contemporary Methods and Techniques in Orthodontics
- * Gene Discoveries in Craniofacial Anomalies and Oral Inflammatory Conditions
- * Dental Mineralization Disorders: Bench to Bedside
- * Influence of Mastication on Memory/Cognition During Development and Aging
- * Oral Microbiome (DNA/RNA) Sequencing Data Analysis
- * Stem Cells in and Around the Tooth: What’s Capable and What’s Mission Impossible



Special Thanks ... to our CBG members who served as abstract reviewers for the Florida meeting:

- M. Douglas Benson (*Texas A & M*)
- James Cray, Jr. (*Medical Univ. of South Carolina*)
- Ariadne Letra (*University of Texas - Houston*)
- Wellington Rody (*Univ. of Florida*)
- Richard (Rich) Sherwood (*Univ. of Missouri*)
- Kathy Svoboda (*Texas A & M*)
- Shankar Rengasamy Venugopalan (*UMKC*)
- Leslie Will (*Boston University*)

Special Thanks ... to our CBG members who served as abstract reviewers for the London meeting:

M. Douglas Benson (*Texas A & M*)
James Borke (*Western University*)
Yang Chai (*University of Southern California*)
James Cray, Jr. (*Medical Univ. of South Carolina*)
Ramzi H. Haddad (*American University of Beirut*)
Juhee Jeong (*New York University*)
Ejvis Lamani (*University of Alabama, Birmingham*)
Ariadne Letra (*University of Texas - Houston*)
Reginald Taylor (*Texas A & M*)
Kathy Svoboda (*Texas A & M*)
Leslie Will (*Boston University*)
Sumit Yadav (*University of Connecticut*)



CALL FOR ABSTRACTS 2019 AADR/CADR/IADR GENERAL SESSION in Vancouver, BC

Don't forget to submit your abstract to the **Craniofacial Biology Group** for the **97th General Session and Exhibition of the IADR**, June 19-22, 2019, in Vancouver, BC, Canada.

**Extended Abstract Submission Deadline -
January 17, 2019**

For more information on abstract submissions and potential abstract submission deadline extensions, see <https://www.iadr.org/2019IGS/Abstract-Instructions>

Meet our current Vice President Dr. James Borke



CBG Business Meeting in London, England



Sylvia Frazier-Bowers Passing the Gavel to Lorri Morford in London



Jim began his service as Vice President at the close of the 2018 IADR London Meeting and goes through the 2019 IADR Meeting in Vancouver.

**Term:
July 2018- June 2019**

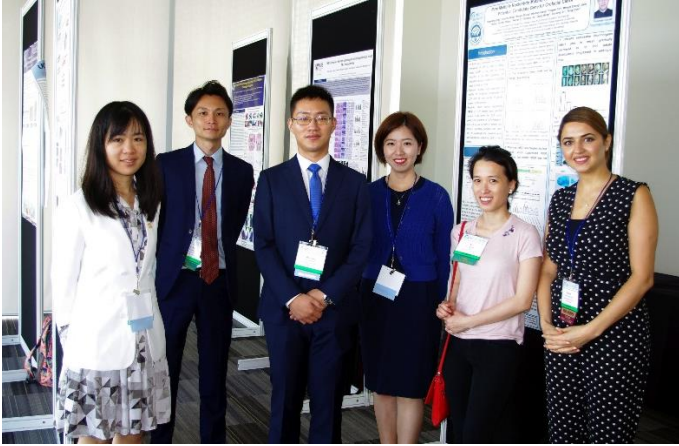
The 2019 IADR Craniofacial Biology Keynote Address in Vancouver will be given by Dr. Brad A. Amendt from the University of Iowa. Dr. Amendt is the Associate Dean for Research in the College of Dentistry and a professor in the Department of Orthodontics. He also serves as the Director, Craniofacial Anomalies Research Center and professor in the College of Medicine's anatomy and cell biology department. Recently, he was named the Dentistry Centennial Professor of Research at the University of Iowa. ***His keynote address will be entitled "Therapeutic Uses of microRNAs to Correct Craniofacial Defects".***

Dr. James Borke is Professor and Assistant Dean of Biomedical Sciences Curriculum, Western University of Health Sciences College of Dental Medicine in Pomona, CA. Jim's research explores the study of medication-related osteonecrosis of the jaw (MRONJ). Specifically, his lab is working towards identification of molecular markers that predict early development of MRONJ. He has previously worked on animal models of cranial suture development, orthodontic tooth movement, and dental implant osseointegrations. He has also been recognized with awards for both teaching and service. Dr Borke has served as a Director for the CBG from 2013 to 2016.

IADR Craniofacial Biology Group Research Competitions - 2018

Congratulations!

The membership of the Craniofacial Biology Group applauds the finalists and winners of the *Bernard G. Sarnat (Senior) Competition* and *Craniofacial Biology (Junior) Competition*.



Dr. Bernard G. Sarnat Senior Finalists

Pictured left to right: **Zhixu Liu** (Honorable Mention, Shanghai Jiao Tong University School of Medicine), **Hiroyuki Kamimoto** (Tokyo Medical and Dental University), **Huaxiang Zhao** (Peking University and Hospital of Stomatology), **Zhang Shipin** (Winner, National University of Singapore), **An Nguyen** (Univ. of California San Francisco) and **Reham Alharata** (King's College London).



Winner of the Sarnat Senior Competition

Dr. Zhang Shipin, National University of Singapore
Poster title: MSC Exosomes Alleviate Pathological Joint Degeneration in Rat TMJ Osteoarthritis

Honorable Mention: Zhixu Liu, Shanghai Jiao Tong University School of Medicine.

Poster title: Essential and Partly Overlapping Function of Six1 and Six2 in Craniofacial Development.



Craniofacial Biology Group Junior Finalists

Pictured left to right: **Sarah Tukmachi** (Queen Mary University of London), **Maxime Rousseau** (McGill University), **Cristina Exposto** (Winner, Aarhus University), and **Ryan Kearney** (University of North Carolina)



Winner of the Craniofacial Biology Junior Competition

Cristina Rocha Exposto, Aarhus University
Poster title: Longitudinal 3-dimensional Evaluation of the Mandibular Condyle

Award recipients selected by a committee appointed by the Group's Vice-President. The awards were presented for the best student presentations (Sarnat and Craniofacial Biology Group, respectively) entered into the Craniofacial Biology Group Award Competition at the IADR meeting. Sponsored by the Craniofacial Biology Group, the Bernard G. Sarnat Endowment to the Craniofacial Biology Group, DentAid, and ALIGN Technology Company.

Special Thanks To...

our Vice President, S. Prem Premaraj, for his efforts in organizing the awards competitions in London. We would also like to thank our judges for the Senior Competition: Nan Hatch (University of Michigan) and James Borke (Western University); for the Junior Competition - David Covell (University of Buffalo) and Lorri Morford (University of Kentucky).

2019 CBG Awards Competitions



Bernard G. Sarnat Award (Senior competition)

- Senior Category (preferably PhD students and post-doctoral fellows)
- US \$500 cash award
- This award is supported by interest from a \$10,000 endowed donation by Dr. Bernard G. Sarnat to the Craniofacial Biology Group and by the membership of the Craniofacial Biology Group.

Craniofacial Biology Award (Junior Competition)

- Junior Category (preferably MS and dental students, residents in certificate programs)
- US \$300 cash award
- This award is supported by DENTAID and the membership of the Craniofacial Biology Group.

These two awards recognize original and outstanding research on craniofacial growth and development. The awardees will each receive an engraved plaque and the specified monetary prize.

Each applicant must be the primary author and presenter of a poster accepted for presentation at the IADR General Session. The applicant must pre-register for the meeting as a student and must be a member of both the IADR and CBG to be eligible for this award program. It is not necessary to send additional documentation of student status.

Extended Abstract Submission Deadline – January 17, 2019

**The IADR reserves the right to extend the abstract submission period. If an extension is issued for abstract submissions, the CBG will use the new submission deadline.*

For more information, see:

<http://www.iadr.org/IADR/Awards/Scientific-Group-Awards/CRAN>

or contact:

James Borke, MS, PhD
jborke@westernu.edu

Recipients of these two awards are selected by a committee appointed by the CBG Vice-President. The awards are presented for the best student presentations from among those entered in each competition. Finalists and winners are recognized by the Craniofacial Biology Group at the IADR meeting where the competition takes place. Awards are sponsored by the CBG, the Bernard G. Sarnat Endowment to the CBG, DentAid, and ALIGN Technology Company.

*****NEW AWARD*****

Orthodontic & Craniofacial Clinical and Translational Research Award

Supported by John Wiley and Sons, Ltd., the
publisher of

“*Orthodontics and Craniofacial Research*”

Orthodontics & Craniofacial Research



Purpose

The **Orthodontic & Craniofacial Clinical and Translational Research Award** will be presented to a young investigator for outstanding clinical and/or translational research as demonstrated by their abstract, supplemental information and research poster presentation at the 2019 IADR General Annual Session & Exhibition in Vancouver, British Columbia, Canada.

Criteria

This new **Clinical and Translational Research Award** will be presented by the IADR-Craniofacial Biology Research Group in Vancouver, British Columbia. The award competition is open to residents in a Certificate and/or MS-degree program, PhD candidates, and post-doctoral fellows.

To be eligible for the award, applicants must:

- (1) Submit their abstract online to the IADR Vancouver meeting through the IADR abstract submission portal to any special interest group by the extended deadline (**January 17, 2019**).
- (2) Submit the required supplemental materials directly to the specified Craniofacial Biology Research Group officer **no later than Monday February 11th, 2019** (details below), and
- (3) **Must be a current member of both the IADR and Craniofacial Biology Research Group at the time of submission.****

**The IADR reserves the right to extend the abstract submission period. If an extension is issued for abstract submissions, the Craniofacial Biology group will use the new submission deadline.*

****All IADR members have the opportunity to join more than one special interest group. To be eligible for this award program, the applicant must be a member of the Craniofacial Biology Group as of February 11th, 2019.**

Individuals interested in this award program who are not members of the Craniofacial Biology Group yet are invited to become a member of the Craniofacial Biology Group. Remember that all IADR student member must join at least one Group / Network and may join up to a total of three Groups/Networks at no charge.

<https://www.iadr.org/IADR/Join-Renew>

Check us out...

<https://www.iadr.org/IADR/Join-Renew/Groups-and-Networks/Craniofacial-Biology-Research>

Five finalists will be chosen from among the applicant pool based on the contents of their abstract and supplemental information. The finalists will be selected by a *selection panel* comprised of the executive officers and directors of the IADR Craniofacial Biology Research group. Finalists will present their research and compete for the award in a poster format on first day of the IADR Vancouver meeting (the morning of June 19th, 2019).

The winner will be awarded **US\$700** and a **certificate of award**

This new award program will require a minimum of *three applicants* for the competition to take place. Only trainees attending a higher academic institution will be eligible to apply for this award. Post-doctoral fellows must be within 5 years of their PhD graduation to be eligible. **Applicants may only apply to one competition sponsored by the Craniofacial Biology Group and John Wiley & Sons Ltd.**

The following individuals are NOT eligible to apply to this competition (but may be listed as co-authors involved in the research): 1) Faculty members, 2) Current officers of the IADR Craniofacial Biology Research Group and/or 2) previous award winners of this awards program.

Application Process

Applicants must submit their abstract to the IADR General Session & Exhibition using standard abstract submission process, and the submission must adhere to the normal IADR abstract format. Please visit <https://www.iadr.org/2019iags> for more information.

In addition to completing their abstract submission on the IADR website* and being a member of the Craniofacial Biology Group, applicants **must** email the following 3 documents to the Immediate-Past President of the IADR CBG on or before **Monday February 11th, 2019:**

Dr Sylvia Frazier Bowers
Sylvia_Frazier-Bowers@unc.edu

1. **A one-page biography** or CV containing the following information: name, date of birth, undergraduate and postgraduate studies completed, the name of your primary research mentor for the submitted work, and a list of your research publications.
2. **A one-page recommendation letter** written by your primary research mentor (or the head of the research core/center at the applicant's school or university, i.e., an Associate Dean of Research).
3. **A detailed project report written by the applicant** (maximum 4 double-spaced pages) with the following 6 sections:

Section 1. Abstract (same as submitted through the IADR website);

Section 2. Introduction: including a literature review, rationale/hypothesis, and concise aim statement

Section 3. Methodology

Section 4. Results: main findings, statistical data

Section 5. Conclusions: including comments on the impact/innovation concerning clinical and/or translational sciences within the IADR Craniofacial Biology Group Research scope

Section 6: Bibliographic references.

** Because this is a new award program, the officers of the Craniofacial Biology Group reserve the right to contact individuals who may have submitted their abstract to the Vancouver meeting before the award was officially announced – to invite the trainee to apply to the award program.

Judging Rules/Principles and Criteria

The *finalist selection panel* will select a **maximum of 5 candidates** for the poster main competition based on the following:

Clarity of presentation, scientific strength, relevance, and potential impact.

Data presented should be original and unpublished.

Candidates selected to complete on site in Vancouver will be informed on or around Friday March 29th, 2019.

The selection of onsite judges and oversight of the onsite judging process will be coordinated by the Immediate President of the Craniofacial Biology Research Group, Dr Sylvia Frazier Bowers (with assistance from the Craniofacial Biology Group Directors).

CRITERIA for judging and rating the finalists will include:

- Impact in Clinical and Translational Research pertinent to Orthodontics and/or Craniofacial Biology
- Quality of research design
- Quality and clarity of presentation

Applicants are required to present their findings twice:

1) during a designated Award competition session to the judging panel in the form of a **poster presentation**, and 2) during a regular session (General Session or Exhibit Hall) in the form of an oral or poster presentation, depending on the acceptance of the abstract for either oral or poster presentation. If the abstract is accepted as a poster, the same poster should be used for both presentations in the poster format recommended at www.iadr.org.

This awards competition will be held in the morning on Wednesday June 19th, 2019 in Vancouver. All finalists must be present on that day to compete in the poster competition.
New Award Presentation

All finalists will be invited to attend the IADR Craniofacial Biology Research group business meeting during the IADR General Session, at which the winner will be announced, and the award certificate received. The cash portion of the award will be issued at a later date (usually 3-4 weeks after the meeting). The remaining finalists will receive a Certificate of Excellence.

Recipients of this new award are selected by a committee appointed by the Craniofacial Biology

Research Group Immediate Past President. The award will be presented for the best student presentations from among those entered in each of the competition. Finalists and winners are recognized by the Craniofacial Biology Group at the IADR meeting where the competition takes place. This award is sponsored by John Wiley and Sons, Ltd. Publishers.

Recent CBG Election Results

Congratulations Dr. Jeff Nickel

who was recently elected to serve as Craniofacial Biology Group Vice President beginning in June of 2019.



Dr. Nickel is an Associate Professor at Oregon Health Sciences University in Portland Oregon. He is the Director of the Advanced Education Program in Orthodontics and Dentofacial Orthopedics and is a Diplomate of the American Board of Orthodontics. He is also a member of several state and national professional and research organizations.

Jeff has been funded by the National Institutes of Health, with a focus on clinical studies which explore the combined effects of mechanics and behavior in the development of degenerative joint disease. He has published in the areas of numerical modeling of central nervous system organization of the masticatory muscle activation; in vivo and ex vivo biomechanics of cartilage; and the testing of mechanical and biological variables affecting rates of tooth movement in humans. Oregon Health & Sciences University School of Dentistry (Moved summer of 2018 from University of Missouri Kansas City School of Dentistry)

Voting is a membership responsibility and empowers you to elect the IADR leadership and to help shape the organization's future. As an IADR member, you are entitled to vote annually for the candidates of your choice for IADR Vice-president as well as for any IADR Constitutional Amendments recommended by the Board and Council.

For those interested in serving in the future:

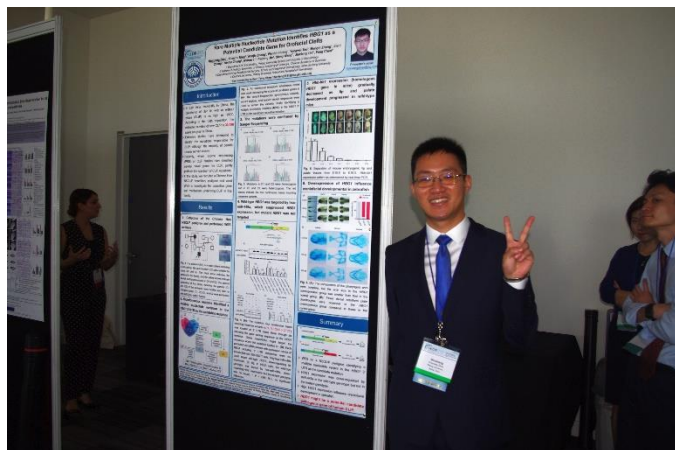
The Vice President is elected to a four-year cycle that includes one year successively in each of the following offices: Vice-President, President-Elect, President, Immediate Past-President. This leadership position entails administration of the Sarnat and Craniofacial Biology Awards competitions (year 1), functioning as the group program chair for IADR/AADR annual meeting(s) (year 2), arranging symposia, lunch & learn sessions, and submit the President's Report (year 3), oversee the Orthodontic

& Craniofacial Clinical Translational Research Award and assist with advisory functions (year 4). You must have previously served as Director, Councilor, or Secretary-Treasurer for one term to qualify to run for Vice-President.

Two Directors are elected annually in the Fall. Directors aid with drafting the groups newsletter, reviewing abstracts, and serve as a sounding board to the CBG Executive Board.

All members of the IADR will receive a personalized link to vote in the next election in the Fall of 2019. If you experience problems accessing the online voting system, please email the IADR Global Headquarters at membervote@iadr.org. There are no paper ballots, so please vote online. You may only vote once.

The deadline to receive all votes will be announced closer to the election.



Huaxiang Zhao (Peking University and Hospital of Stomatology) – Competitor in the Sarnat Awards Competition in London



Oral Presenter, Dr Azeez Butali from the University of Iowa in London



Funding Opportunities:



Continued Commitment to the Specialty®

American Association of Orthodontist Foundation

For more information:

<http://aaofoundation.net/AwardsProgram/AbouttheAAOF AwardsProgram.aspx>

Valuable Member Resources:



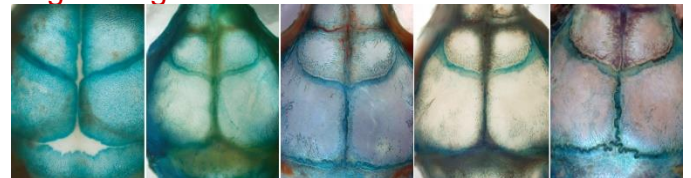
FaceBase is a collaborative NIDCR-funded consortium to generate data in support of advancing research into craniofacial development and malformation.

For more information:

<https://www.facebase.org/about/>

C-DOCTOR

Center for Dental, Oral, & Craniofacial Tissue & Organ Regeneration



The vision of C-DOCTOR is to assemble a comprehensive and dynamic team of clinicians, research scientists, biostatisticians, regulatory scientists, and pre-clinical/clinical trial experts to enable the development and clinical implementation of innovative approaches for dental, oral, and craniofacial tissue regeneration.

For more information: <http://c-doctor.org//>

MEMBER INFORMATION BOARD:

Meetings and Symposium:



**The 46th Annual Moyers Symposium
Embracing Novel Technologies in
Dentistry and Orthodontics
The University of Michigan
March 1-3, 2019**

The 46th Annual Moyers Symposium at the University of Michigan entitled “*Embracing Novel Technology in Dentistry and Orthodontics*” and **the 44th Annual International Conference on Craniofacial Research** (Pre-symposium) will be held (March 1st-3rd, 2019). For more information: www.moyerssymposium.org/



COAST Workshop on Personalized and Precision Orthodontics

In September of 2018, the Consortium for Orthodontic Advances in Science and Technology (COAST) held a conference in Scottsdale, AZ, with the organization assistance of the Federation of American Societies for Experimental Biology (FASEB). The primary long-term goal of COAST is to foster high-caliber, cutting-edge collaborative interactions between clinicians, educators, and researchers aimed at fostering novel developments of importance to the field of orthodontics.

The 2018 COAST Innovators' Workshop on “**Personalized and Precision Orthodontics: Bridging the Biology-Technology Gap**”, was designed to move the field of orthodontics forward and improve clinical practice. A total of seven sessions were held which touched on topics ranging from the *Application of Bioinformatics in Craniofacial Research* to aspects of *Regenerative Medicine pertinent to orthodontic treatment* as well as *Technology and Precision Orthodontics*. In addition to scientific and poster sessions, career development and “Meet the Expert” opportunities were available to attendees.

American Society of Human Genetics



The American Society of Human Genetics (ASHG) is the primary professional membership organization for human genetics specialists worldwide. The Society's nearly 8,000 members include researchers, academicians, clinicians, laboratory practice professionals, genetic counselors, nurses and others who have a special interest in the field of human genetics. Our members work in a wide range of settings, including universities, hospitals, institutes, and medical and research laboratories.

For more information: <http://www.ashg.org/>



The SCGDB is a nonprofit membership driven organization consisting of physicians, dentists, anthropologists, developmental biologists, geneticists and other professionals and students whose interests involve the craniofacial region.

OBJECTIVES

- To promote understanding of the genetics, anatomy and biology of the craniofacial structures in the health sciences and in the practice of health delivery.
- To promote teaching of craniofacial genetics and developmental biology in the health sciences. This includes an explicit evolutionary perspective enabling the informed use of animal models in the pursuit of knowledge and development of therapeutics.
- To promote basic and clinical research efforts in craniofacial genetics and developmental biology.
- To provide a forum for interdisciplinary communication among professionals interested in craniofacial anomalies and normal development and function of craniofacial structures.
- To provide a focus for application of research results in craniofacial genetics to clinical care and management of patients with such problems.

SCGDB often holds their annual meeting in conjunction with the Annual meeting of the ASHG.

For more information: <http://craniofacialgenetics.org/>

Current Officers of the Craniofacial Biology Group

President

Lorri Ann Morford (2018-2019)
University of Kentucky
lorri.morford@uky.edu

President-Elect

S. Prem Premaraj (2018–2019)
University of Nebraska
spremaraj@unmc.edu

Vice-President

James L. Borke (2018–2019)
Western University of Health Sciences
jborke@westernu.edu

Immediate Past President

Sylvia A. Frazier-Bowers (2018-2019)
University of North Carolina
Sylvia_Frazier-Bowers@unc.edu

Secretary/Treasurer

Geoff Guttman (2017-2020)
University of Medicine and Health Sciences
Gdgu77mann@gmail.com

Councilor

Bruno Ruest (2018–2021)
Texas A&M University
lbruest@tamhsc.edu

Directors:

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Richard Sherwood (2017-2020)
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Alexandre Vieira (2018-2021)
University of Pittsburgh
Arv11@pitt.edu

Ejvis Lamani (2018-2021)
University of Alabama in Birmingham (UAB)
ejvis@uab.edu

Special Thanks to our Directors finishing their term of service in London:

Yang Chai (2015-2018)
University of Southern California
ychai@usc.edu

Juhee Jeong (2016-2018)
New York University
jj78@nyu.edu

