

CRANIOFACIAL BIOLOGY GROUP



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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 such things as the cross-pollination of information between specialties, the generation of collaborative research, the creation of mentoring opportunities, and the 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 Craniofacial Biology Group President - James Borke

As your new president but long-time member of CBG, it is my honor and pleasure to welcome you to our group. Whether you are a seasoned researcher or a new student member of the IADR we know you will find a welcoming home in the CBG. Although the cancellation of the IADR Centennial Meeting planned for Washington DC was a major disappointment for us all, the CBG was able to administer all three planned award competitions via online Zoom. The results of these competitions can be found in a later section of this Newsletter along with a big thank you to all of the sponsors, participants and judges who made these competitions possible. I would like to offer my personal thank you to Dr. Jeffrey Nickel for organizing the *Sarnat Award* and the *Craniofacial Biology Award* competitions. I would also like to offer a big thank you to Dr. Lorri Morford for organizing the *Orthodontics and Craniofacial Clinical Translational Award* program.

In 2021 the AADR meeting is scheduled to take place July 21-24 in Boston. The IADR meeting originally scheduled for Chengdu, China, in 2021 has now been postponed until 2022. Be sure to check the IADR website to find the latest information concerning abstract deadlines and scheduling.

Another casualty of the cancelled Washington meeting was the missed opportunity to attend the keynote lecture by our distinguished colleague, Dr. Susan Herring. A short description of Dr. Herring's planned talk is provided here. The CBG is very hopeful that Dr. Herring has consented to present her work at the AADR meeting next year in Boston.



Dr. Susan Herring

What Really Recovers When The Botox Wears Off?

Muscle paralysis from botulinum neurotoxins (BTX) is temporary. However, in jaw muscles, effects are often seen many months after treatment. We studied rabbits that received unilateral masseter injection of BTX or saline and survived for 4 or 12 weeks. Additional animals had no injection or were injected repeatedly. Masticatory activity returned early, and by 12 weeks was in the control range; repeated injection showed no net loss. Bite force was slower to return, but repeated injection again showed no cumulative deterioration. Surprisingly, nerve stimulation indicated incomplete reinnervation. Mandibular bone loss was striking, and more trabecular areas did not fully recover. Muscle histomorphometry indicated worsening atrophy, fibrosis and fatty degeneration. This was countered by progressively hypertrophying fibers. We conclude that the reactivation of BTX-treated muscles is not a sign of recovery, but rather is compensation by fibers that escaped the toxin or were rapidly reinnervated.

2020 IADR Craniofacial Biology Group Research Award Competitions

Bernard G. Sarnat and Craniofacial Biology Awards

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

There were 23 abstracts for the Craniofacial Biology Award and 24 abstracts for the Sarnat Award competition. From these entries, 5 finalists were selected for each award. The quality of the submissions was extremely high, especially for the 10 finalists.

The finalists and award winner for the 2020 Craniofacial Biology Award competition were:

Pegah Khosravi-Kamrani, University of North Carolina (**WINNER**)

Title: Categorizing CI III Subtypes, Treatment Modes, and Treatment Outcomes

Anya Pierson, University of Colorado Anschutz Medical Campus

Title: A Role for HAND2 and TWIST1 in Cavernous Hemangioma Formation

Derek Swanson, University of Pennsylvania Title: Esrp1-/- Induced Cleft Palate from Defective Epithelial Fusion in Mice

Julie Langenbahn, Texas A&M University College of Dentistry

Title: Vital roles of tendon in mandibular bone and hypophosphatemia-caused osteosclerosis



Pegah Khosravi-Kamrani

The finalists for the 2020 Sarnat Senior Award competition were:

Jingyue Xu, Cincinnati Children's Hospital Medical Center (**WINNER**)

Title: Genome-wide identification of Foxf2 transcriptional target genes in palate development

Anna M. Hardin, University of Missouri

Title: Timing of Craniofacial Growth: Impacts of Skeletal Malocclusion

Chiho Ahn, Harvard University

Title: Sfrp4 Deficiency Prevents Bone Regeneration of Calvarial Critical Defect

Mohammed Al Qranei, University of Maryland

Title: C-Phycocyanin Attenuates Osteoclastogenesis And Bone Resorption In Vitro

Xin She, Clemson University

Title: Sexual Dimorphisms of Joint Loading Influence TMJ Disc Nutrient Environment

Ammar Alghadeer, Clemson University,

Title: A Preliminary Gene Expression Atlas of Human Tooth Development Via Sci-RNA-Seq.



Jingle Xu

These awards are sponsored by the Bernard G. Sarnat Endowment from the Bernard G. Sarnat Foundation, DentAid, and ALIGN Technology Company.

Special Thanks To... Our Vice President last year, Dr. Jeffrey Nickel, for all of his efforts in organizing the *Sarnat and Craniofacial Biology Awards competitions* held via Zoom. We would also like to thank our judges for both the Sarnat and CFB Awards: Jeff Nickel, Laura Iwasaki, Sundaralingam Premaraj, and Geoff Guttmann.

Orthodontic & Craniofacial Clinical and Translational Research Award

The CBG in collaboration with the Orthodontic and Craniofacial Research Journal (Wiley) created the *Orthodontic & Craniofacial Clinical and Translational Research Award*. The competition for this award was held online on April 25, 2020, from 3:00PM to 6:15PM EST, and culminated in 5 finalists at the post-doctoral level (PhD or DDS).

Competitor #1: Mohamed-Nur Abdallah



U. of Toronto, Toronto, Canada
Anabolic Drug Conjugates with Resorbable Monetite for Enhanced Bone Regeneration

Competitor #2: Neelam Ahuja



U. of Texas, Arlington, TX USA
Effect of Silicon-Oxynitrophosphide on Osteogenesis and Angiogenesis In Craniofacial Applications

Competitor #3: Jeremie Oliver



U. of Utah, Utah, USA
Intra-Amniotic Wnt Agonist Injection for Cleft Palate Correction

Competitor #4: WenLu Jiang



UCLA, Los Angeles, CA USA
Targeted apoptotic Clearance of Myofibroblasts in High-Mechanical-Loading Post-Surgical Wounds

Competitor #5: Monica Li



UCLA, Los Angeles, CA USA
Single Protein Reprogramming to Generate a Safe Multipotent Cell Source

Congratulations to the Award recipient, Dr. Mohamed-Nur Abdallah of the University of Toronto for an outstanding project entitled, ***Anabolic Drug Conjugates with Resorbable Monetite for Enhanced Bone Regeneration***, with Zeeshan Sheikh, Faik Al-Jaf, Gang Chen, Nader Hamdan, Robert N. Young, Michael Glogauer, & Marc D. Grynpas.



The Craniofacial Biology Group would also like to thank **Ambra Michelotti**, Editor, *Orthodontic and Craniofacial Research Journal*, Wiley-Blackwell, for providing monetary support for this award.

A special thanks goes to our Immediate Past President, **Dr. Lorri Morford**, for her efforts in organizing this award program and for all of the judges that volunteered their time:

Judging team:

Nan Hatch (University of Michigan)
Eric Everett (University of North Carolina)
Brad Amendt (University of Iowa)
Lorri Morford (University of Kentucky)

Eligibility and awards competition rules

Bernard G. Sarnat Award

- Senior Category (PhD students and post-doctoral fellows) - **US \$500** award
- This award is supported by interest from a \$10,000 endowed donation by Dr. Bernard G. Sarnat to CBG and by CBG membership.

Craniofacial Biology Award

- Junior Category (MS, residents and dental students) - **US \$300** award
- This award is supported by DENTAID and the membership of the Craniofacial Biology Group

These awards recognize original and outstanding research on craniofacial growth and development. Each awardee receives an engraved plaque and 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 IADR and CBG to be eligible. It is not necessary to send additional documentation of student status.

Award recipients 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 CBG 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.

Application deadlines for both awards to be determined. *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: Shankar Rengasamy, shankar-venugopalan@uiowa.edu

Orthodontic & Craniofacial Clinical and Translational Research Award

Supported by John Wiley and Sons, Ltd., the publisher of "Orthodontics and 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 2020 IADR/AADR/CADR General Session & Exhibition in Washington, D.C.

Criteria

This award will be presented by the IADR-CBG and the 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 Washington, D.C. meeting through the IADR abstract submission portal to any special interest group by the deadline March 1, 2021.
- (2) Submit the required supplemental materials directly to the specified Craniofacial Biology Group officer no later than March 1, 2021. (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 CBG 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 CBG by the time of application.**

Individuals interested in this award program who are not members of the CBG Yet are invited to become a member of the group. Remember that all IADR student members 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 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 meeting.

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

This 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. 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 CBG 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 CBG and/or 2) previous winners of this award.

Application Process

Applicants must submit their abstract to the IADR General Session & Exhibition using standard abstract submission process, and the required IADR abstract format. Please visit <https://www.iadr.org/2020IAGS/Abstract-Instructions> for more information.

In addition, **applicants must email the following 3 documents to the Immediate-Past President of the CBG 1 month AFTER the AADR/IADR abstract deadline.**

Dr. S. Prem Premaraj, spremaraj@unmc.edu

1. A one-page biography or CV containing the following information: name, date of birth, undergraduate and postgraduate studies completed, name of 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 (as submitted through the IADR website - ***not included in the page limit**)

Section 2. Introduction: including a literature review, rationale/hypothesis, and aim(s)

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 CBG research scope

Section 6: Bibliographic references followed by up to 4 figures and/or tables total with appropriate legends - ***not included in page limit.**

Awards Judging: Rules/Principles and Criteria

The *finalist selection panel* will select a **maximum of 5 candidates** for the main poster competition based on: clarity of presentation, scientific strength, relevance, and potential impact. Data presented should be original and unpublished. Candidates selected to compete on-site in Boston, MA will be informed in late December or early January 2021. The selection of onsite judges and oversight of the onsite judging process will be coordinated by the Immediate-Past President of the CBG with assistance from CBG Directors).

CRITERIA for judging and rating award finalists:

- 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 award competition will be held during the Boston meeting. All finalists must be present on that day to compete in the poster competition.

All finalists will be invited to attend the IADR CBG business meeting during the IADR General Session, at which the winner will be announced, and presented with the award certificate. 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.

Updates from your councilor Bruno Ruest

IADR/AADR councils adopt policy on Sugar-Sweetened Beverages



The IADR and AADR held their respective annual general council meetings in March. Each council was held virtually due to the cancellation of the Washington's IADR/AADR/CADR annual meeting because of the SARS-CoV2 pandemic. Both councils had an abbreviated agenda, including a vote on the already inaccurate proposed budget (because of the meeting cancellation). One of the most important votes for the IADR and AADR councils was the adoption of the Joint Position Statements and Policy on Sugar-Sweetened Beverages (SSBs). The joint policy has been in the work for some time. A policy statement on SSBs was requested by the IADR and AADR Boards of Directors to support the Associations' investment policies to screen for exclusion of SSBs. During the 2019 Vancouver's IADR/AADR/CADR General Session, the IADR and AADR Science Information Committees (SICs) met and recommended subject matter experts (SMEs) to consult and topics that the statement should address. An ad hoc committee of SMEs and representatives from both SICs was formed. The committee developed the statements and policy over the year, based on scientific evidence. Both the IADR and AADR SICs approved the statements before their respective Boards of Directors send them for consideration by the IADR and AADR Councils.

Here is the main statement from the policy:

"The International Association for Dental Research (IADR) and the American Association for Dental Research (AADR) support avoiding consumption of sugar-sweetened beverages (SSBs) in order to reduce intake of free sugars, which are added sugars and sugars in 100% juices, to decrease the prevalence of dental caries (or tooth decay) and other non-communicable diseases (NCDs) such as

obesity, type 2 diabetes and cardiovascular disease". Both IADR/AADR councils adopted the position statement, which can be viewed on the IADR/AADR websites, along with a brief description of recommendations and research gaps.

AADR is considering changing its name to AADOCR

One of the major items discussed during the annual council meeting in March was that the American Association for Dental Research (AADR) is considering changing its name, pending approval by its members. Over the past decade, AADR has experienced a ~20% decline in active members (excluding students) even after repeated recruitment and retention campaigns. The decreased membership is hindering on the mission of the Association to represent a dynamic, interdisciplinary mix of members and excellence in research, weakening its stance when AADR is advocating before Congress and the administration to seek increased federal research funding.

To increase membership and participation, different approaches were implemented by AADR, some of which we have already seen, such as the digital campaign to promote membership and attendance at the General Session and the member-get-a-member campaign. Other marketing strategies are coming, such as to attract more NIDCR-funded scientists, retain student members and linking science in JDR and JDR CTR journals more closely with membership. One of the proposed changes to improve membership retention and recruitment is to alter the name of the association to a broader more inclusive one. Some of you may remember during the 1st Quarter of 2019, a consultant firm carried out in the name of the AADR a number of surveys with members and non-member constituents about different new names or keeping the current one. Based on the survey results, the AADR Board of Directors recommended to the Council the following name: *American Association for Dental, Oral and Craniofacial Research (AADOCR)*.

The new proposed name and constitutional updating related to the name change will be on the Fall 2020 ballot for approval by AADR members.

A Century of Craniofacial Growth Research

Modern-day dentistry and orthodontics in the U.S. were constructed upon a strong foundation of growth and development research. This foundation began in the inaugural edition of the Journal of Dental Research in 1919 with a two-page report on the importance of nutrition on the growth of teeth and jaws by the founding editor, William J. Gies. As new areas of research have been developed, the importance of growth and development research has remained constant throughout the century-long history of the IADR and JDR. Coincident with the founding of the association, a number of growth studies emerged with the goal of characterizing normal craniofacial and dental development. Key to these studies was the development of cephalometric techniques resulting from the growing field of radiography. Longitudinal cephalograms of children were collected across critical growth periods resulting in standards applicable in clinical practice. The number of growth studies increased in the 1940s-50s leading to a long history of research into craniofacial growth that continues to this day. Modern-day techniques including three-dimensional radiographic or photogrammetric approaches are being combined with sophisticated analytic approaches expanding the toolkit available to the clinician. The symposium "A Century of Craniofacial Growth Research" examines the historical context of modern-day approaches and techniques currently used in craniofacial growth and development research.

This symposium is available via IADR CE on Demand (<https://www.iadr.org/IADR/Meetings/CEOOnDemand/ArtMID/141484/ArticleID/907/2020-IADRAADRCADR-General-Session>).

Meet the Current Officers of the IADR CBG

President (2020-2021) – James Borke

Western University of Health Sciences
jborke@westernu.edu

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. Since 2013, Dr Borke has served as a Director, Vice-President, and President-elect for the CBG.



President-Elect (2020-2021) – Jeffrey Nickel

Oregon Health and Science University
nickel@ohsu.edu

Dr. Nickel began his service as President-Elect on March 21, 2020 at what would have been the close of the Centennial Meeting in Washington DC. Jeff was born in Regina, Saskatchewan, Canada. His university degrees are from the University of Manitoba: DMD (1977-1981), MSc (1994-1987), PhD (1987-1992). Prior to his faculty appointment with OHSU, he was a faculty member at the University of Manitoba (1992-1996), University of Nebraska Medical Center (1996-2006), and University of Missouri Kansas City (2006-2018) where he was the DJ Thompson Associate Professor. He currently has a position as Associate Research Professor at the University at Buffalo School of Dental Medicine, Department of Oral Diagnostic Sciences. Dr. Nickel is currently Associate Professor and 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.



Vice-President (2020-2021) – Shankar Rengasamy Venugopalan

University of Iowa College of Dentistry
shankar-venugopalan@uiowa.edu



Dr. Shankar Rengasamy Venugopalan is an Associate Professor in the Department of Orthodontics at the University of Iowa College of Dentistry & Dental Clinics. He started his academic career in 2014 at the UMKC School of Dentistry, Department of Orthodontics and Dentofacial Orthopedics. Dr. Rengasamy Venugopalan received BDS degree (2003) from the Tamil Nadu Dr. MGR Medical University; PhD (2010) in Biomedical Sciences from the Texas A & M University Health Science Center; and DMSc (Oral Biology)/Certificate in Orthodontics (2014) from the Harvard University and Harvard School of Dental Medicine respectively. Dr. Rengasamy Venugopalan's research had been focused on understanding the molecular basis of craniofacial developmental defects. His doctoral studies, in *Dr. Brad Amendt's* lab (2006-2010), delineated the transcriptional regulation of gene expression during embryonic development to understand the complex nature of genetic defects observed in Axenfeld Rieger Syndrome. Subsequently, during his post-doctoral work in *Dr. Henry Margolis's* lab (2011-2014), he studied the role of dephosphorylation of amelogenin in mineral crystal formation. His current research employs next generation sequencing to understand sporadic craniofacial genetic disorders such as craniofacial microsomia and mandibulofacial dysostosis. He is a recipient of the prestigious Harvard University Presidential Scholarship (2011; 2012) during his residency training. He also received the Willie & Earl Shepard Fellowship Award (2015) and Robert E. Binder Teaching Fellowship Award (2017) from the American Association of Orthodontists Foundation. Dr. Rengasamy Venugopalan received the American Association of Orthodontists (AAO) Scholarship (2015) to attend the Academy of Academic Leaders Institute of Teaching & Learning and the AAO Full-Time Faculty Fellowship Award (2019).

Secretary/Treasurer (2020-2023) – Xiaofang Wang

Texas A&M University
xwang@tamhsu.edu



Dr. Wang is an Associate Professor with tenure at Texas A&M University College of Dentistry. He received his BDS (1989-1995), MS (1997-2000) and PhD (2001-2003) degrees from the Fourth Military Medical University in Xi'an, China. Prior to his faculty appointment, Dr. Wang performed his postdoctoral training in Ohio State University (2006-2008) and Texas A&M University COD (2008-2012). Dr. Wang's research is focused on translational and basic sciences which explore the molecular mechanism of bone, tooth and craniofacial development. He is the recipient of ASBMR Harold M. Frost Young Investigator Award (2013) and TAMUCOD Basic Research Award (2019). Several students and postdocs from his lab have received IADR Bernard Sarnat Award (2017) and ASBMR Young Investigator Award (2019). Currently, his lab is working on projects exploring the role of FAM20 kinases in bone and tooth development and several novel genes regulating the growth of mineralized tissues. These projects are well funded by NIH/NIDCR R01, K02 and R03 grants. Dr. Wang serves on multiple NIH/NIDCR study sections, Hong Kong Research Grant Council and several editorial boards. As the Secretary/Treasurer of Craniofacial Biology Group, Dr. Wang will help with various task forces and advocate for sustained scientific funding and policies that promote funding the best science.

IADR CBG Extended Board Members

Immediate Past President

S. Prem Premaraj (2019-2020)

University of Nebraska Medical Center

spremaraj@unmc.edu



Councilor

Bruno Ruest (2018-2021)

Texas A&M University

lbruest@tamhsc.edu



Historian (Honorary)

Geoff Guttmann (Former Secretary/Treasurer

2011-2020) University of Medicine and Health Sciences

gdgu77mann@gmail.com



Directors:

Evis Lamani (2018-2021)

University of Alabama in Birmingham

ejvis@uab.edu



Ariadne Letra (2019-2022)

University of Texas Health Science Center at Houston

ariadne.m.letra@uth.tmc.edu



Reginald W. Taylor (2019-2022)

Texas A&M University

rwtaylor@tamhsu.edu



Alexandre Vieira (2018-2021)

University of Pittsburgh

arv11@pitt.edu



The CBG would also like to welcome

our newly elected Directors:

Sheela Premaraj (2020-2023)

University of Nebraska Medical Center

sheelapremaraj@unmc.edu



James Cray (2020-2023)

The Ohio State University

james.cray@osumc.edu



IADR, AADR and CBG Elections

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.

Make sure that you take the time to vote in the elections for the new IADR and AADR leadership positions. The CBG will be electing our next Vice-President and Councilor.

Ophir Klein, who has been a member of the Craniofacial Biology Group and has served as its President, is running for Vice President of the IADR. It would be nice to have someone representing Craniofacial Biology Research Group at the top of the IADR leadership.

Nominations for CBG VP and Councilor must be sent to Riana Hays, rhays@iadr.org by August 3, 2020.

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, and 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. **The time period for casting your ballot for the Directors of the CBG is June 10 to 24.** Directors aid with drafting the group's newsletter, reviewing abstracts, and serve as a sounding board to the CBG Executive Board. Our Councilor and our secretary/treasurer are both elected to three-year terms. We are electing a new secretary/treasurer this year, and a new councilor next year.



ATTENTION!! Important new information!!

The 50th Annual Meeting & Exhibition of the AADR/45th Annual Meeting of the CADR in Boston, MA, USA ,originally planned for March 2021

HAS BEEN RESCHEDULED for July 21-24, 2021

*Symposia submission deadline November 16, 2020; abstract submission deadline March 1, 2021.

The 99th General Session & Exhibition of the IADR/5th Meeting of the IADR Asia Pacific Region in Chengdu, China, planned for June 2021

HAS BEEN POSTPONED UNTIL 2022.

MEMBER INFORMATION BOARD:

Funding/Collaboration Opportunities:



American Association of Orthodontists Foundation

For more information:

[http://aaofoundation.net/AwardsProgram/
AbouttheAAOFAwardsProgram.aspx](http://aaofoundation.net/AwardsProgram/AbouttheAAOFAwardsProgram.aspx)



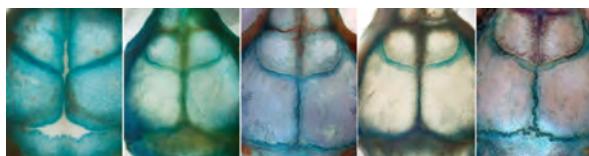
FaceBase is a collaborative NIDCR-funded consortium to generate data in support of advancing research into craniofacial development and malformation.

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/>

Special Thanks to our Past Presidents, Officers, and Directors who finished their term of service to our group but continue to provide active support and guidance:

Lorri Ann Morford

(Immediate Past President, 2019-2020)
University of Kentucky
lorri.morford@uky.edu

Sylvia Frazier-Bowers

(Immediate Past President, 2018-2019)
University of North Carolina
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Geoff Guttmann

(Secretary Treasurer, 2011-2020)
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Richard Sherwood, PhD (Director, 2017-2020)

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Douglas Benson (Director, 2016-2019)

Texas A&M University
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Wellington Rody, Jr. (Director, 2016-2019)

Stony Brook University
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