



IADR

International Association
for Dental Research

Craniofacial Biology Research Group

2018 WINTER UPDATE

CONTENTS:

- **Message from the Craniofacial Biology Group President**
- **Upcoming 2018 AADR/CADR Meeting & Exhibition (Ft Lauderdale, FL)**
- **Call for Abstracts: 2018 IADR Meeting & Exhibition (London, England)**
- **2017 IADR/AADR/CADR CGB Group Election Results**
- **Member Information Board**
- **Craniofacial Biology Group Officers – Contact information**

Greetings!

We are looking forward to another exciting meeting in Fort Lauderdale, FL and anticipate a significant AADR overall attendance. As always, the Craniofacial Biology Group (CBG) features a long history of craniofacial research from orthodontists, pediatric dentists, clinicians and researchers - all possessing diverse training and scientific backgrounds.

The CBG, one of the larger groups of the IADR, always welcomes new members and is happy to provide career development resources as a part of this newsletter. Indeed, the primary purpose of the CBG is to promote excellence in clinical, translational and basic science research focused on the craniofacial complex. Please join us at our ***Business Meeting on Thursday, March 22, at 5-6 pm (location TBD). A joint reception will follow cohosted by the CBG, Stem Cell Biology, Mineralized Tissue, and Pulp Biology & Regeneration Groups.***

We hope you can peruse this newsletter and mark your calendars for the CBG programming at the 2018 AADR meeting that includes everything from the latest in craniofacial stem cell research to the



future of clinical dentistry and orthodontics using machine learning. The AADR Craniofacial Biology Keynote will be given on Friday March 23rd at 2 PM by ***Dr. Ophir Klein*** and is entitled ***“What big teeth you have: the rodent incisor as a model for adult stem cell biology.”*** Dr. Klein will present data from his group’s recent work focusing on the development and renewal of the rodent incisor, which is dependent on the continuous generation of progeny from stem cells that have the capacity to self-renew as well as to give rise to the required differentiated cell types.

The CBG will also offer an impressive IADR scientific program in July 2018 packed with collaborative symposia ranging from translational studies of tooth movement to the molecular genetics governing craniofacial development. Please be sure to submit your CBG abstracts soon and stay tuned for more news and events in the Summer 2018 newsletter!

S.A. Frazier-Bowers

President, CBG



**AADR/CADR Annual Meeting & Exhibition
Fort Lauderdale, FL. March 21-24, 2018**

This year, over 100 abstracts were submitted to the CFB Group. Of these, 16 abstracts will be presented as oral talks, 79 will be presented as part of our 5 poster sessions, and 11 abstracts that were originally submitted to our group have been accepted into either the “*Student Competition for Advancing Dental Research and its Application*” (SCADA) Competition or the “*AADR Hatton Competition*”.

Congratulations to all!

**A summary of all Craniofacial Biology Group
Sponsored Events are listed below:**

WEDNESDAY, March 21, 2018

1:30 PM – 3:00 PM

Oral Session: **Temporomandibular Joint and Mandibular Condylar Cartilage**
Location: [Grand Ballroom B](#)

3:15 PM – 4:45 PM

Symposium: **Life and Re-birth of Odontoblasts: Biology and Clinical Implications**
Organizer(s): Jeremy Mao (Columbia University, New York, NY, USA), Jian Feng (Texas A&M University, Dallas, USA)

Sponsoring Groups: Stem Cell Biology Research, Pulp Biology & Regeneration Research, Craniofacial Biology
Location: [Floridian A](#)

THURSDAY, March 22, 2018

11:00 AM – 12:15 PM

Poster Session: **Craniofacial Biology: Temporomandibular Joint and Mandibular Condylar Cartilage**

12:30 AM – 1:45 PM

Lunch & Learn (Table #1): **Machine Learning in Dentistry: Transforming Diagnostics and Clinical Practice** (pre-registration and additional cost involved) Location: [Hall D](#)

2:00 PM – 3:30 PM

Oral Session: **Craniofacial Biology Research**
Location: [Floridian B/C](#)

3:45 PM – 5:00 PM

Poster Session: **Craniofacial Biology: Cleft Lip +/- Palate Research**

FRIDAY, March 23, 2018

8 A.M. – 9:30 A.M.

Symposium: **Dental Oral Craniofacial Tissue Regeneration Consortia: A New Paradigm**

Organizer(s): David Kohn (University of Michigan, Ann Arbor, USA), Jeff Lotz (University of California, San Francisco, USA)

Sponsoring Groups: Stem Cell Biology Research, Mineralized Tissue, Craniofacial Biology
Location: [Floridian A](#)

11:00 AM – 12:15 PM

Poster Session: **Craniofacial Biology: Dental Development and Disorders**

2:00 PM – 3:30 PM

Oral Session: Keynote address; **Stem Cells and Regenerative Medicine CRANIOFACIAL BIOLOGY KEYNOTE ADDRESS**



What Big Teeth You Have: The Rodent Incisor as a Model for Adult Stem Cell Biology (30 minutes) - Dr. Ophir Klein, M.D., Ph.D.
Location: [Floridian B/C](#)

FRIDAY, March 23, 2018 (cont.)

3:45 PM – 5:00 PM

Poster Session: **Craniofacial Biology: Bone, Facial Growth and Tooth Movement**

SATURDAY, March 24, 2018

8 A.M. – 9:30 A.M.

Symposium: **The Novel Insights of Proteoglycans in Mineralized Tissues**

Organizer: Xiaofang Wang (Baylor College of Dentistry, Texas, USA)

Sponsoring Groups: Mineralized Tissue, Craniofacial Biology
Location: [Grand Ballroom G](#)

11:00 AM – 12:15 PM

Poster Session: **Craniofacial Biology: Craniofacial Development and Abnormalities**

We would like to acknowledge the amazing help we received from a group of outstanding abstract reviewers (listed alphabetically):

Brad Amendt, University of Iowa
M. Douglas Benson, Texas A & M
James Cray, Jr., Medical University of South Carolina
Ramzi H. Haddad, American University of Beirut
Ejvis Lamani, University of Alabama in Birmingham
Ariadne Letra, University of Texas Health Science Center of Houston
Lorri Ann Morford, University of Kentucky
Wellington Rody, University of Florida
Richard Sherwood, University of Missouri
Kathy Svoboda, Texas A & M
Reginald Taylor, Texas A & M
Shankar Rengasamy Venugopalan, University of Missouri Kansas City
Leslie Will, Boston University
Sumit Yadav, University of Connecticut
Hai Yao, Medical University of South Carolina



CALL FOR ABSTRACTS 2018 IADR GENERAL SESSION LONDON, UK

Don't forget to submit your abstract to the Craniofacial Biology Group for the 96th General Session and Exhibition of the IADR, held in conjunction with the IADR Pan European Regional Congress, July 25-28, 2018, in London, England.

For more information on abstract submissions, see <http://www.iadr.org/IADR/Meetings/2018IAGS>

Abstract Submission Deadline – February 2, 2018

The IADR Craniofacial Biology Keynote will be given by **Dr. Mary Marazita**. Her talk is entitled **“Genomic and Phenotypic Studies in Orofacial Cleft Families”**

London Keynote Overview: Orofacial clefts (OFC) are the most common craniofacial birth defect, occurring in about 1/800 live births worldwide. In recent years, our group and others have discovered a variety of genomic regions associated with OFC, 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. In this talk, Dr. Marazita will summarize the current findings from her research group.

CFB GROUP ELECTION RESULTS

The recent IADR Craniofacial Biology Group election was run by the IADR Global Headquarters and the newly elected officers are:

Vice President: James L. Borke
Councilor: Bruno Ruest

MEMBER INFORMATION BOARD:

Meetings and Symposium:



45th Annual Moyers Symposium

And 43rd Annual International Conference on Craniofacial Research (**Moyers Pre-symposium**) will be held at the University of Michigan. For more information: www.moyerssymposium.org/
March 2 – March 4, 2018



2018 COAST INNOVATORS WORKSHOP

Personalized and Precision Orthodontics:

Bridging the Biology-Technology Gap in Orthodontics & Craniofacial Care
The Scottsdale Plaza Resort, Scottsdale, AZ
For more information: www.faseb.org/src
September 12 – 16, 2018

Career Opportunities in Research

OPEN POSITION

Orthodontics Faculty Opening

The University of North Carolina at Chapel Hill (UNC) School of Dentistry invites applications for a full-time, tenure track, open rank faculty position in the Dept of Orthodontics and the Biomedical Research Imaging Center (BRIC), both within a prestigious academic health center and public university. We are seeking an outstanding **scientist** and educator **or clinician-scientist** who will develop an independent and sustainable research program within the orthodontic department. A successful candidate will be expected to focus on novel machine learning platforms to advance the clinical treatment and research innovation of orthodontics in the 21st century. **For more information contact Feng-Chang Lin, PhD flin33@email.unc.edu**

Funding Opportunities:



Continued Commitment to the Specialty®

American Association of Orthodontist Foundation

For more information:

<http://aaofoundation.net/AwardsProgram/AbouttheAAOFAwardsProgram.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/>

CURRENT OFFICERS

President:

Dr. Sylvia A. Frazier-Bowers (2017-2018)
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President-Elect

Dr. Lorri Ann Morford (2017-2018)
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Vice-President

Dr. S. Prem Premaraj (2017–2018)
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Secretary/Treasurer

Dr. Geoff Guttman (2017-2020)
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Immediate Past President

Dr. Sunil Wadhwa (2017-2018)
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Councilor

Dr. Sunil Kapila (2015-2018)
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Directors (6 total)

Dr. Yang Chai (2015-2018)
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University of Missouri Kansas City
rengavs@umkc.edu

Dr. Richard Sherwood (2017-2020)
University of Missouri
sherwoodrj@health.missouri.edu

New Directors:

An election will be held to fill two Directors for the 2018-2021 term. Please watch your email for more details. Nominations for the Directors can be sent to:
Dr. S. Prem Premaraj
University of Nebraska
(spremaraj@unmc.edu)