HANDS-ON WORKSHOPS

Hands-on Workshops (HOW) will take place at the Vancouver West Convention Centre. Registrations will be processed on a first-come, first-served basis.

For workshops that have limited attendance and/or a fee associated, if you register in advance a ticket will be printed on your name badge sheet. If a session fills up, you can request to be placed on a waiting list. Individuals on the waiting list are encouraged to arrive at the applicable session at the meeting case there are attendees who do not show up; entry will be facilitated by the Organizer.

More information including speakers/descriptions will be available when the online scientific program is released in May 2019.

WEDNESDAY, JUNE 19, 2019
8:30 a.m. – 10 a.m.

C, E  HOW #1: Navigating the Human Salivary Proteome Wiki Database
Session Host: Stefan Ruhl (University at Buffalo, New York, USA)
Sponsoring Group/Network: Salivary Research

Description: The salivary proteome has been exhaustively catalogued and it has become clear that proteins and peptides in saliva have great potential as biomarkers for oral and systemic disease. Salivary proteins are also paramount for the digestive and protective functions of saliva. Yet, the wealth of information accumulated in the literature about salivary proteins, their expression, function, and role in oral health and disease has thus far not been made publically accessible in its entirety to the scientific community and the public at large. To fill that need, the Human Salivary Proteome Wiki database has been built as a community-driven information and annotation platform for the human salivary proteome. In this workshop, participants will be introduced to this novel information resource. They will learn how to utilize the database for answering their pertinent research questions. Scientists working in the field of salivary research will learn how to submit their own proteome data and how to add to the knowledge about functions of salivary proteins and their role in overall well-being and disease.
**WEDNESDAY, JUNE 19, 2019**  
**12 p.m. – 1:15 p.m.**

**HOW #2:** IADR/AADR/CADR/NIDCR Mentoring and Networking Lunch  
**Organizers:** Leslie Frieden (National Institutes of Dental and Craniofacial Research, Bethesda, Md., USA); Lynn King (National Institutes of Dental and Craniofacial Research, Bethesda, Md., USA)  
**Sponsoring Group/Network:** IADR/AADR/CADR  
(Attendance limited to 96, must register to attend. Fee: $25)

**Description:** The IADR/AADR/CADR and NIDCR are offering a mentoring and networking lunch aimed at facilitating interactions between predoctoral and postdoctoral students and dental, oral and craniofacial research investigators. This event, planned for Wednesday, June 19, 2019 from 12 p.m. to 1:15 p.m. is designed to provide an opportunity to students to interact with experienced research mentors. The goal is to provide an informal venue for students to obtain guidance on their research program and research career trajectory, and to expand their network of mentors and peers to support and facilitate their research career success. Mentors will be encouraged to lead informal, motivational and realistic discussions about developing a successful research career.

Lunch tables will be organized by research topic or career pathway, and two mentors will be assigned to each table. When registering, participants do not need to select a specific table and are encouraged to move among topics/tables during the session.

IADR/AADR/CADR Annual Meeting attendees who register as students (e.g., graduate students, dental students and non-independent postdoctoral researchers) will be able to register for Mentoring and Networking Lunch for an additional fee through the IADR meeting registration process.

**WEDNESDAY, JUNE 19, 2019**  
**1:30 P.M. – 3 P.M.**

**C,E HOW # 3:** Sage Advice for Navigating a Research-Focused Career  
**Session Host:** Shannyn Little (University of North Carolina, Chapel Hill, USA); Aparna Bhat (University of New England, Biddeford, Maine, USA); Tanner Godfrey (University of Alabama at Birmingham, USA)  
**Sponsoring Group/Network(s):** National Student Research Group, Student Training and Research (STAR) Network, Women in Science Network

**Description:** This Hands-on Workshop will be structured as a semi-informal panel discussion with three panelists from leaders in our field. Each panelist will be given the opportunity to briefly introduce their role in their respective discipline; students will have the opportunity to seek advice regarding opportunities and pathways for young researchers desiring to lead a research-focused career in oral and craniofacial sciences. Several pre-scripted questions will be given to panelists, followed by a question and answer portion with the audience.
E HOW #4: Tenure x Non-Tenure: Which Career Track is Right for You?

Session Host: Ariadne Letra (University of Texas Health Science Center at Houston, USA); Effie Ioannidou (University of Connecticut, Farmington, USA); Flavia Teles (University of Pennsylvania, Philadelphia, USA); Luciana Shaddox (University of Kentucky, Lexington, USA); Patricia Miguez (University of North Carolina, Chapel Hill, USA); Tamanna Tiwari (University of Colorado, Aurora, USA)

Sponsoring Group/Network(s): Women in Science Network, Periodontal Research, Craniofacial Biology Research, Dental Materials, Pulp Biology & Regeneration Research

Description: While most academics in many fields including dentistry strive for tenure, research suggests that it is not the only satisfying course. Many institutions worldwide are experiencing shifts in tenure’s definition, availability and value, as a result of an ever-changing landscape in institutional visions and funding constraints. In some countries/institutions, academic tenure has been eliminated from their job descriptions. Understanding the duties and responsibilities associated with tenure and non-tenure tracks in academic programs will enable dental educators at all stages of their careers to make informed decisions when choosing the path that best matches their career goals.

E HOW #5: Taking the Temperature: Climate Studies for Diversity and Inclusion

Organizer: Seun Ajiboye (International and American Associations for Dental Research, Alexandria, Va., USA)

Sponsoring Group/Network(s): Women in Science Network, National Student Research Group, Education Research, Student Training and Research Network

Description: This hands-on workshop features three speakers representing institutions that have recently completed climate studies to assess the learning and working environments of their institutions’ students, faculty and staff. The institutions represented are the American Association for Dental Research, University of Michigan School of Dentistry and University of California-San Francisco School of Dentistry. The speakers will discuss experiences with conducting climate studies and the use of such studies for increasing diversity and inclusion for audience members who may be interested in conducting one at their institutions. Each speaker may address any of the following topics: rationale behind his or her institution’s climate study; the strategy undertaken for conducting the climate study; practical considerations, such as cost and time, when embarking upon a climate study; lessons learned for future studies; study results and use of the results for future efforts for increasing diversity and inclusion.
THURSDAY, JUNE 20, 2019
2 p.m. – 3:30 p.m.

C, E HOW #6: Oral Health and NCDs: Lessons from the 2018 UN Meeting
Organizer: Peter Mossey (University of Dundee, UK)
Sponsoring Group/Network(s): Global Oral Health Inequalities Research Network, Nutrition Research, Behavioral, Epidemiologic, and Health Services Research

Description: The Political Declaration of the high level Meeting of the UN General Assembly on the Prevention and Control of Non-communicable Diseases (NCDs) on 19th September 2011 recognised in para 19 that “renal, oral and eye diseases pose a major health burden for many countries and that these diseases share common risk factors (CRFs) and can benefit from common responses to non-communicable diseases”

Tobacco and alcohol abuse are major contributors to oral disease such as periodontal disease and oral cancers, and an aspect of unhealthy diet is undoubtedly sugar, which contributes to the most prevalent of all NCDs, dental caries, but also to obesity, diabetes, cardiovascular disease and metabolic syndrome. These points were made in statements presented via the zero draft to the UNHLM forum in New York in September 2018, yet oral health failed to get a mention in the final draft of the resolution.

The oral health community is poised to make a significant contribution to the SDGs via ongoing global efforts and synergistic collaboration between WHO, FDI and IADR (now affiliates and members respectively of the NCD Alliance). In alignment with other NCDs and trans-sectoral stakeholders and in dialogue with civil society the oral health community will embrace the CRF approach to prevent NCDs and reduce health inequalities.

This forum will highlight and brainstorm the areas of advocacy, collaboration and research that the oral health community should address to maximise it’s effectiveness as a partner in the NCD Alliance and to assist with policy development.

FRIDAY, JUNE 21, 2019
8 a.m. – 9:30 a.m.

C, E HOW #7: How to Use EHR Data for Research
Session Host: Elsbeth Kalenderian (University of California, San Francisco, USA)
Sponsoring Group/Network(s): Evidence-based Dentistry Network, Behavioral, Epidemiologic, and Health Services Research, Network for Practice-based Research

Description: Given the monetary and time expense of clinical trials, it is prudent to use the informational by-products of regular health care to expand our knowledge and improve practice. Electronic health records (EHRs) have now been adopted by a large number of dental institutions worldwide but remain a largely untapped resource for discovery and scholarly activity. Several dental institutions contribute EHR data to the BigMouth Dental Data Repository containing over 2 million patients. This workshop will
showcase how dental institutions use data from their individual EHRs or BigMouth to rapidly develop and answer clinically meaningful research questions.

The 90 minute hands-on workshop would be setup as follows: Introduction on using EHR data for research, 10 min.; Content: How to develop effective research questions, 10 min.; Activity: Participants will work in table groups to identify a suitable research question. Moderator will facilitate an interactive discussion to provide feedback on the research questions, 20 min.; Content: How to query EHR data, 10 min.; Activity: Participants will develop a strategy to query EHR data and to identify variables required to answer their research question. Moderator will facilitate report out from tables, 15 min. Content: Strategies for analyzing EHR data, 10 min.; Activity: Question and Answer, 10 min.; Wrap-up, 5 min.

We will use a combination of short oral presentations with Q&A and interactive table group discussions. Participants will be asked to generate a research question, identify variables needed to conduct the research, and develop an analysis approach.

FRIDAY, JUNE 21, 2019
8 a.m. – 9:30 a.m.

HOW #8: Publishing Your Manuscript: A JDR Perspective
Session Host: William Giannobile (University of Michigan, Ann Arbor, USA)
Sponsoring Group/Network: IADR/AADR

Description: Dissemination of research is critical to its uptake by other researchers and translation by end-users. This session will consider how best to reach your target audience and aims to assist you in how to present your research in a clear and logical manner for publication in scientific journals with particular emphasis on the Journal of Dental Research, although much of the session will be pertinent to scientific publishing in general.

FRIDAY, JUNE 21, 2019
2 p.m. – 3:30 p.m.

C, E HOW #9: Leadership in the IADR: Personal Attributes and Pathways
Organizers: Paula Moynihan (Newcastle University, UK); Rena D'Souza (University of Utah, Salt Lake City, USA)
Sponsoring Group/Network: IADR and AADR Past Presidents

Description: The past and current leadership of IADR are committed to developing a robust pipeline of outstanding researchers who represent the global membership of IADR and who can serve the association well into the future.

This hands-on workshop will inform members at all stages of career development, about the workings of IADR. Past and present leaders of IADR will share the experiences they gathered through service on
IADR’s standing committees, scientific groups and networks as well as through offices held within sections, divisions and regions. Past Presidents will share narratives of how their journeys enriched their professional and personal lives.

The session will conclude with round-table discussions that will be personalized in answering specific questions raised by attendees. In addition, new connections between mentors and mentees will be facilitated, it is hoped that IADR will nurture a robust pipeline of leaders who can serve the association well into the future.

Individuals who currently serving as officers of scientific groups, networks and within sections, divisions and regions

SATURDAY, JUNE 22, 2019
8 a.m. - 9:30 a.m.

C, E HOW #11: Contemporary Methods and Approaches for Dental Education Research
Organizer: HsingChi von Bergmann (University of British Columbia, Vancouver, Canada)
Sponsoring Group/Networks: Education Research, Student Training and Research (STAR) Network

Description: In the past few decades, the nature of all health care has transformed from simply performing procedures to repair diseased tissue to a much more holistic view on the role of society and community in disease prevention and promotion of health. This change in the focus of the nature of health care has called for educational change. The new educational systems are aimed to prepare holistic oral health care professionals who will understand and practice person-centered care from the broad perspective of health and well-being. This move has challenged many faculty members who practiced traditional styles of patient care and dental education, leaving many feeling unsettled.

Inter-professional (e.g., dentistry, psychology, sociology, philosophy, education) approaches to health care which incorporate multiple perspectives on health promotion and disease prevention have been advocated broadly in dental education. The resulting evolution to rethink dental education requires faculty members to develop curricular and teaching strategies that reflect the future practices in all disciplines of health care. These “best practice” curricular and instructional strategies should, and can, come from educational scholarship.

We propose a 90-minute workshop to enhance the scholarship of teaching and learning in dentistry by introducing contemporary methods and approaches of conducting educational research. The format of this workshop is to use the first ten minutes to gather the participants’ list of perceived educational/curricular challenges. This list will then be summarized and followed up with 15-minute presentations from each of the four presenters. Each presenter will attempt to connect their presentation to one, or multiple, identified challenges from the participants. In the last 20 minutes, the participants will discuss and practice applying the introduced methods in small groups facilitated by the presenters.
SATURDAY, JUNE 22, 2019
2 p.m. – 3:30 p.m.

C, E  HOW #10: Head and Neck Ultrasound Workshop
Organizer: Peggy Lee (University of Washington, Seattle, USA)
Sponsoring Group/Networks: Diagnostic Sciences, Salivary Research, Oral & Maxillofacial Surgery Research, Oral Medicine and Pathology
(Attendance limited to 20, must register to attend. Fee: $40)

Description: The goal of this workshop is to provide participants with a basic understanding of ultrasound imaging of head and neck as applied to salivary gland diseases and lumps of the head and neck, and an opportunity for hands on practice

Recent advances in high resolution ultrasound technology allows improved image quality and detailed anatomic visualization. This provides a relatively inexpensive diagnostic tool without exposure to ionizing radiation. Ultrasound imaging is particularly suitable for use in field offices where other imaging modalities may not be available. Ultrasound imaging can complement other commonly used imaging modalities, such as CT and MRI, and assist in procedures such as tissue sampling, staging of tumours especially intraoral and injections in outpatient clinical settings. More research is needed to establish the diagnostic accuracy of ultrasound in the maxillofacial area compared to CT and MRI, and to develop parameters for its use in diagnosis. Training opportunities in ultrasound imaging designed for dental clinicians and researchers are limited, particularly in North America. The workshop is suitable for clinical and translational researchers as well as educators and will advance the safe and effective use of clinical ultrasound. Participants will be given instruction in the theory of ultrasound imaging and will have the opportunity to conduct and interpret scans in volunteer subjects.

The workshop will begin with a introduction and anatomy lecture, followed by a live demonstration. In the remaining time, participants will practice scanning on healthy volunteers.