

## SCHULICH DENTISTRY 2012 Research News

### 2012 December

#### Schulich Dentistry IRG (Internal Research Grant Program) Competition Results

Congratulation to Dr. Les Kalman (Restorative Dentistry) who was awarded \$9,260 to work on his project '*Development & Validation of the Virtual Facebow*'.

#### Dr. Timucin Ari selected as IADH President Elect

The twenty-first International Association for Disability and Oral Health (IADH) Congress was held October 28-31, 2012 in Melbourne Australia. The IADH Congress, held every 2 years, brings experts special care dentistry together and features more than 200 oral and poster presentations. A wide range of health care providers from around the world were in attendance including dentists, doctors, psychologists, dental hygienists, dental assistants, speech language pathologists and social workers. The IADH is an international association dedicated to improving oral health and quality of life for individuals with special needs. Dr. Timucin Ari has been an active member of the IADH for six years as the IADH Magazine editor. Having published 17 issues of the Magazine, the nomination committee elected to put Dr. Ari's name forward as a candidate. During the Congress in Melbourne, the council members of IADH voted Dr. Ari as the President Elect.



As President Elect, Dr. Ari is responsible for facilitating communication with members, contacting national associations to help promote oral health in special needs populations, encourage undergraduate core curriculum in special care dentistry to dental schools around the world, work with the scientific committee of the next IADH congress and assist the new editor of the IADH Magazine. His term as President will start at the 2014 IADH Congress in Berlin, Germany and will end in 2016 at the IADH Congress in Chicago, USA. Dr. Ari has been involved with Special Care Dentistry for more than 12 years now. He first started working with this group of patients while completing his combined PhD Residency Program in Pediatric Dentistry in Turkey. Dr. Ari moved to Canada in 2010 and began working at the Schulich School of Medicine and Dentistry, Western University.

### 2012 November

#### Dentistry Seminar Series Presentation

Eva Helmerhorst, MS, PhD, Associate Professor, Department of Periodontology & Oral Biology, Henry M. Goldman School of Dental Medicine, Boston University.

*"Whole Saliva: Functions in and beyond the Oral Cavity"*

### 2012 October

#### Kathleen Martin wins Research Award

The 18th Hinman Student Research Symposium was held in Memphis, Tennessee. The Symposium featured oral and poster presentations of research projects by dental students and graduate students from dental schools across the nation. At this year's Symposium, 101 students represented 45 dental schools in USA and Canada.

This year, one of the awards in clinical research (Most Outstanding Presentation) was won by Schulich School of Medicine & Dentistry student Kathleen Martin (DDS 2015). Kathleen's project explored the ability of new polymeric materials containing basic fibroblast growth factor to act as scaffolds for guided tissue regeneration in a cell culture model. The project was directed by Dr. Douglas W. Hamilton of the Schulich School of Medicine and Dentistry of Western University working in collaboration with Dr. Jianjun Guan of The Ohio State University.



## Dentistry Annual Research Day / John T. Hamilton Lecture



*Balancing Sugar & Caries / Fluoride & Fluorosis* was the topic of the 11th Annual John T. Hamilton Lecture presented by Jaime A. Cury, DDS, PhD, Professor of Biochemistry and Cariology at the Piracicaba Dental School, University of Campinas, Brazil.

Schulich Dentistry's Annual Research Day was held on October 10th, featuring a presentation of student posters and the 11th John T. Hamilton Lecture.

## Dentistry's Research Day Poster Presentations

Congratulations to the following students who received awards for their Poster Presentations at Dentistry's Research Day.



### Junior Category - Travel Award

- First Jason Zimmerman (DDS 2014) - CDA/Dentsply Travel Award  
Supervisor - Dr. W. Siqueira, Co-Supervisor - Dr. S Hatibovic-Kofman
- Second Kathleen Martin (DDS 2015) - ADA Foundation Travel Award  
Supervisor - Dr. Douglas Hamilton

### Senior Category - Merit Award

- First Karen Ann Bridge (DDS 2015) - Dr Dixon Lab
- Second Steven Holterman Ten Hove (MSc Candidate-Clinical Anatomy), Dr Galil
- Third Jake Bedore (MSc Candidate-Physiology & Pharmacology), Dr Séguin Lab

## Faculty Awards

Dr. Sandhu is pleased to announce Dr. Walter Siqueira as the 2012 recipient of the W.W. Wood Award and Dr. Barry Schwartz as the 2012 recipient of the C.Y. Lung Award. The W.W. Wood Award is awarded annually on the recommendation of the students to a full-time faculty member who has taught for at least three years and has made an outstanding contribution to the undergraduate dental program. The C.Y. Lung Award is awarded annually on the recommendation of the students to a part-time faculty member who has made an outstanding contribution to the undergraduate program. **Congratulations to Dr. Siqueira and Dr. Schwartz on your award achievements!**

## 2012 August

### Dentistry Seminar Series Presentation

Ken Yaegaki, DDS, PhD, Chair, Department of Oral Health-Nippon Dental University, Tokyo and Clinical Professor, Oral Biological & Medical Sciences-Faculty of Dentistry, University of British Columbia.

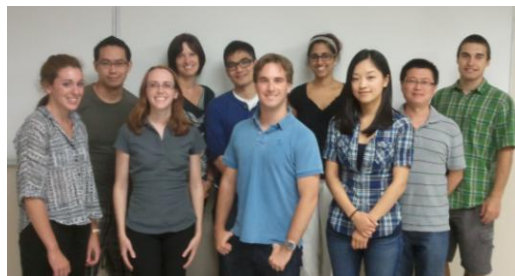
*"Harnessing tooth-pulp stem cells for regenerative medicine: Lessons learned from halitosis research"*

### Dr. Carrilho wins Schulich Clinician-Scientist Award

The Schulich School of Medicine & Dentistry has embarked on an integrated approach for the training, recruitment and retention of outstanding clinician-scientists, and the Schulich Clinician-Scientist Program is an important component. The goal of this competitive program is the recruitment of new clinical faculty members with high potential for research leadership. Congratulations to Dr. Marcela Carrilho, Dentistry for winning this award in 2012.

## 2012 Schulich Dentistry Summer Research Students

Schulich Dentistry Summer Research Students presented their summer research projects to fellow students and faculty on August 15th. The presenters included DDS Students who had been awarded summer studentships through Schulich School of Medicine and Dentistry and also DDS Students who were funded from external sources.



## 2012 July



### Welcome to Dr. Marcela Carrilho

Please join us in welcoming a new Dentistry Faculty Member and Researcher - Dr. Marcela Carrilho, DDS, PhD (previously an Associate Professor at Dental Materials and Operative Dentistry, Bandeirante University of Sao Paulo). Dr. Carrilho is a clinician-scientist expert in the field of Dental Biomaterials and Oral Biology. Her research focus is to understand the factors that determine the degradation of dentin organic matrices within caries lesions and hybrid layers of resin-bonded restorations. We understand that her main research goals are to control caries progression in active caries lesions and provide long-term to adhesive restorations by controlling the inhibition of proteolytic activity of dentin matrix.

Many of you will remember Dr. Carrilho from attending her lecture at Western last July entitled 'Proteolytic Activity of Human Dentin: A perspective on Resin-Dentin Bonds Degradation and Caries Progression'.

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## 2012 June



### IADR Distinguished Scientist Award in Salivary Research

Dr. Walter Siqueira, Oral Biology, receives 'The Spittoon' in honour of the IADR Distinguished Scientist Award in Salivary Research. This award recognizes the outstanding work of an individual made in the field of salivary research.

## 2012 May

### Dentistry Quintessence Research Award

Erin McDonald (DDS 2012) - The Quintessence Research Award is awarded on the recommendation of the Research Committee, following nomination by the faculty supervisors, to a graduating student who has been exemplary in research in the undergraduate dental program.

### Dentistry Seminar Series Presentation

Luis Rueda, PhD, Associate Professor, School of Computer Science, University of Windsor

*"The Role of Sequence and Structural Domains in Prediction of Protein-protein Interaction Types"*

## 2012 APRIL

### Dentistry Seminar Series Presentation

Ruth Martin, MHSc, PhD, Professor, Communication Sciences and Disorders, Physiology and Pharmacology, Otolaryngology, Neuroscience, and Health and Rehabilitation Sciences - Faculty of Health Sciences, Western University

*"Swallowing Biology and Rehabilitation"*

## 2012 MARCH

### Funding - CIHR Operating Grant

Dr. Andrew Leask - \$273,429 (3 years)

*"TAK1: A novel fibrogenic mediator?"*

### CIHR Scholarship - Student ranked #1 in Competition

Young Ho Lee (Siqueira Lab), was awarded a CIHR scholarship (Undergraduate - Mobility, Musculoskeletal Health & Arthritis) for his project "Proteomic Evaluation of Acquired Enamel Pellicle Composition during its Formation in the Human Oral Cavity". Mr. Lee was ranked #1 in the national competition.

### CADR - Senior Basic Science Category

Shawna Kim, MSc Candidate (Hamilton Lab) was presented with an award at the AADR/CADR Conference in Tampa, Florida in March. This was awarded by the Canadian Association of Dental Research (CADR) for winning 2nd place in the Senior Basic Science Category.

*"Nifedipine Induces Expression of Periostin in Gingival Tissue"*

#### Dentistry Seminar Series Presentation

Frank Oppenheim, DMD, PhD, Professor and First Henry M. Goldman Distinguished Scientist  
Department of Periodontology and Oral Biology, Henry M. Goldman School of Dental Medicine, Boston University  
*"Saliva and Innate Immunity"*

#### Dentistry Seminar Series Presentation

Michael Glogauer, DDS, PhD, Associate Professor  
Faculty of Dentistry, University of Toronto

*"Determining the regulators of Osteoclast fusion: The role of the actin binding protein adseverin in osteoclastogenesis"*

#### Invited Presentation - Symposium on Oropharyngeal Function and Dysphagia

Dr. Walter Siqueira has been invited to present his research on salivary physiology and its relationships with swallowing and dysphagia at this symposium hosted by the Faculty of Health Sciences at Western on March 12, 2012. The aim of the Symposium is to bring together researchers from Japan and Canada in a context that will facilitate discussion, knowledge generation, and future training and research collaborations.

#### 2012 JANUARY

##### Schulich Dentistry IRG (Internal Research Grant Program) Competition Results

Two Dentistry faculty members were awarded IRGs of \$5,000 each.

Dr. Timucin Ari – *"Oral Health Related Quality of Life Outcomes of Orthodontic Treatment in Special Needs Children - Based on the International Classification of Functioning, Disability and Health (ICF)"*

Dr. Aldo Manzur – *"Understanding Causes of Fracture Predilection in Endodontically Treated Teeth: Effect of Current Instrumentation Techniques (1)"*

##### Funding - ITI (International Team for Implantology) Foundation

Dr. Doug Hamilton / Dr. Walter Siqueira - \$102,000 (1 year)

*"Acquired Enamel Matrix Protein Titanium Pellicle: Development of Biomimetic Surfaces to Improve Dental Implant Integration"*