

SCHULICH DENTISTRY 2011 Research News

2011 DECEMBER

Funding - Institut Straumann AG

Dr. Walter Siqueira - \$16,450 (1 year)

"Identification and Characterization of EMD and C Fraction Protein Components by Using Mass Spectrometry"

Funding - Canadian Arthritis Network

Dr. Andrew Leask - Post-Doctoral Fellowship Award - \$40,000

Funding - Scleroderma Society of Ontario

Dr. Andrew Leask - \$150,000 (3 years)

"The Role of Ctgf in Adult Fibroblasts"

2011 NOVEMBER

Dentistry Seminar Series Presentation

Dr. Anil Kishen, Associate Professor, Endodontics, University of Toronto

"Emerging Nanotechnology in Endodontics"

2011 OCTOBER

Dentistry Research Day

The Schulich Dentistry Annual Research Day took place on October 5 and featured Dr. David Pashley (College of Dental Medicine, Georgia Health Sciences University) as the 10th John T. Hamilton Distinguished Lecturer (The John T. Hamilton Distinguished Lectureship is awarded annually to an outstanding dental researcher). Title of talk: *"State-of-the-Art Etch-and-Rinse Adhesives"*. There were also 26 student poster presentations, representing virtually all of the different research interests in Dentistry.

CDA/DENTSPLY Travel Award to 2012 CDA Student Clinician Research Competition

Patricia Brooks (DDS 2013) Dixon Lab

"Crosstalk-talk between Wnt/β-catenin and P2 nucleotide receptor signaling in osteoblasts"

Awarded to the first-place winner of the Student Poster Presentations at Dentistry's Annual Research Day. The first-place winner will represent Schulich Dentistry in the competition at the annual meeting of the Canadian Dental Association (CDA) in the next year. DENTSPLY provides funding for the qualifying students' airfare and travel expenses to the convention.

Dentistry Research Travel Award

Jesse Lackman (DDS 2014) Sims Lab

"Effects of isoform-selective phosphatidylinositol-3-kinase inhibitors on osteoclast apoptosis"

Awarded to the second-place winner of the Student Poster Presentations at Dentistry's Annual Research Day. This cash award of \$500 is to be used to cover the cost of a dental-related conference, symposium or congress.

Dentistry Research Day - Poster Certificate of Merit

Jason O'Young (DDS 2012) Hunter Lab

Mary-Ellen Polymeris (Grad Othodontics 2012) Dixon Lab

Daniel Costa (Grad Student) Rizkalla Lab

William Custodio (Grad Student) Siqueira Lab

Funding - CIHR

Dr. Douglas Hamilton - 3 years

"Novel Treatments for the Closure of Chronic Skin Wounds"

Canadian Association of Dental Research (CADR) Student Award

Shawna Kim, MSc Candidate (Hamilton Lab) - 2nd place winner in the senior science category. She will present an oral presentation on her findings at the AADR/CADR Conference in Tampa, Florida in 2012.

2011 AUGUST

Funding - Early Researcher Award (Ontario Ministry of Research and Innovation) 'Attracting and retaining the next generation of research talent for Ontario'

Dr. Douglas Hamilton – *"Surface treatments to enhance metal implant integration with bone"*

The number of knee and hip replacement surgeries has doubled in the last decade and will grow as our population ages. But joint replacements often need to be redone when the bone separates from the implant. At Western University, Dr. Hamilton is developing next-generation biomaterials that will improve implant success and reduce the number of repeat surgeries.

2011 CDA/DENTSPLY Student Clinician Research Program

Erin McDonald - DDS 2012 (Siqueira Lab) - 2nd Place winner

The 2011 CDA/DENTSPLY Student Clinician Research Program took place in Halifax during the CDA Annual Convention. This national clinical research competition invites dental students from the 10 accredited Canadian dental schools to present research table clinics.

Hinman Student Research Travel Award

Jason Zimmerman - DDS 2014 (Siqueira Lab) *"Proteome of Human Acquired Enamel Pellicle on Deciduous Teeth"*

The goal of the Hinman Student Research Symposium is to help raise and maintain the quality of dental research and education by encouraging participation of dental students, graduate trainees, and dental school faculty in research to improve oral health care.

2011 JULY

Funding - Ministry of Economic Development and Innovation

Developing effective treatments for oral diseases - Provincial funding: \$212,059

Dr. Walter Siqueira – *"Salivary Proteomics Research Laboratory"*

Tooth decay and gum disease cost Canadians an estimated \$6.5 billion a year. By studying the effect of salivary proteins on oral diseases, Dr. Siqueira at Western University aims to develop synthetic peptides that can be used to prevent these two major oral diseases.

Dentistry Seminar Series Presentation

Dr. Guy Moshe Aboodi, PhD Candidate (combined PhD/Periodontics Program) - Supervised by Dr. Michael Glogauer, DDS, PhD, Graduate Periodontology, Faculty of Dentistry, University of Toronto

"The role of oral neutrophils in the development and progression of refractory periodontitis"

2011 JUNE

Dentistry Seminar Series Presentation

Dr. Jun Yang, Associate Professor, Dept of Mechanical and Materials Engineering, and Biomedical Engineering Program, UWO

"Nanotechnology: An Enabling Tool for Biology"

Dentistry Summer Student Research

The summer student research program provides an opportunity for students enrolled in the DDS program to contribute to clinical and basic science research being performed in Schulich Dentistry. Stipends normally are for a period of 12 weeks.



Following completion of their projects, students are required to present their data at the Annual Research Day of the School. Awards are available, on a competitive basis, for summer students to attend national and international research conferences, including the annual meetings of the Canadian Dental Association and the International Association for Dental Research.

2011 MAY

Dentistry Quintessence Research Award

Jia Hao (DDS 2011)

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.

Dentist Clinician Scientist (DCS) Program - Acceptance for 2012

Shawna Kim (Hamilton Lab) and Eric Holms (Goldberg Lab)

The DCS program is a joint degree program (DDS/MSc or DDS/PhD) geared towards students who are interested in dental research or academic dentistry. Students accepted into the DCS program complete all requirements of dental-related courses with the MSc or PhD program prior to entering the DDS class.

Dentistry Seminar Series Presentation

Dr. Peter Cadieux, Miriam Burnett Research Chair in Urological Sciences, Assistant Professor - Depts of Surgery and Microbiology & Immunology, Western University, and Canadian Research and Development Centre for Probiotics

"Probiotics and Antibiotics: From the Urogenital Tract to the Oral Cavity"

2011 APRIL

Funding - CIHR New Investigator Salary Award

Dr. Walter Siqueira - \$60,000/yr for five years

Dentistry Seminar Series Presentation

Dr. Aart Molenberg, Head of Biomaterials & Surfaces Research, Institut Straumann AG, Basel, Switzerland

"How to Improve the Osseointegration of Dental Implants?"

2011 MARCH

IADR

In the last IADR General Session (San Diego), Dr. Walter Siqueira (Assistant Professor in Dentistry and Biochemistry) was elected President of the Salivary Research Group, International Association for Dental Research.

Implant Research Group Young Investigator Award Competition

Paul Prowse (Hamilton Lab) 2nd Place - International Association for Dental Research 2011 Annual Meeting

"Regulation of Osteoblast Differentiation on Smooth and Rough Titanium by Rac1 GTPase"

CADR-Quintessence - ACFD Visiting Professorship Award

Dr. Walter Siqueira (Assistant Professor in Dentistry and Biochemistry)

Dentistry Seminar Series Presentation

Dr. Koichiro Ueda, Nihon University School of Dentistry, Tokyo, Japan

"Dysphagia Rehabilitation at Nihon University School of Dentistry & Public Long Term Care Insurance in Japan"

2011 FEBRUARY

Funding - CFI (Canada Foundation for Innovation)

Dr. Walter Siqueira and his research team were awarded more than \$0.5 M from CFI-LOF (Canada Foundation for Innovation) and ORF (Ontario Research Fund-Ministry of Research and Innovation) for the creation of the first Salivary Proteomics Research Laboratory.

Dentistry Seminar Series Presentation

Dr. Gordon Southam, Professor & Canada Research Chair in Geomicrobiology, Departments of Biology & Earth Sciences Director, Centre for Environment and Sustainability, Western University

"Bacteria-mineral interactions; fundamental lessons on materials other than teeth"

Dentistry Seminar Series Presentation

Dr. Gildo C. Santos Jr., Schulich School of Medicine & Dentistry, Western University

"Mechanical Properties of a Dual-Cure Resin Cement Photocured with Different Curing Lights"