



**UConn School of Dental Medicine
Research Office
NEWSLETTER
April 2016**

Faculty Research Grants

Congratulations to the following faculty on obtaining new research funding:

Robert Aseltine – “Utilization of Dental Imaging During the Past 20 Years: A collaborative study”, Renaissance Health Service Corporation

J. Robert Kelly – “Artificial Salivary Gland”, 2016 Spark Technology Commercialization Fund, UConn.

Rajesh Lalla – “Development of a novel, long-acting, topical anesthetic product for the treatment of oral mucositis”, 2016 Spark Technology Commercialization Fund, UConn

Rajesh Lalla – “Cobiprostone for the prevention of oral mucositis in subjects with head and neck cancer receiving concurrent radiation and chemotherapy”, Sucampo Pharma

Peter Maye – “Cherubism and TGF β Signaling”, The Research Excellence Program (Stimulus Grants), UConn

Douglas Peterson – “Center for Advancing the Management of Pain NIH Center of Excellence for Pain Education (UCONN Campus)”, UConn Storrs/NIH

Sumit Yadav – “BMP2 signaling in mandibular condylar cartilage”, American Association of Orthodontists Foundation (AAOF)



Student/Resident/Fellows Research Awards

Congratulations to two Skeletal, Craniofacial & Oral Biology T90 training grant students and their advisors who have recently been awarded NIH (NRSA) F30 Fellowship grants:

- David Manz (Mentor: Suzy Torti, Ph.D., Professor, Department of Molecular Biology & Biophysics) “Role of Ferroportin in reducing Prostate Cancer Metastasis”

- Matthew Zambrello (Mentor: Jeffrey Hoch, Ph.D., Director, Gregory P. Muller NMR Structural Biology Facility; Professor, Department of Molecular Biology & Biophysics) “Novel Computational Techniques to Expand the Scope of Protein Nuclear Magnetic Resonance Spectroscopy”

Congratulations also to the T90 Training Grant Directors Drs. Mina and Goldberg on this success!

LisaMarie DiPasquale, DDS, MD (Mentor: Dr. Regina Landesberg) received the American Association of Oral and Maxillofacial Surgeons Outstanding Poster Presentation Award for her presentation entitled “The University of Connecticut Osteonecrosis Numerical Scale (UCONNS): Application to a Retrospective Case Control Study”.

2016 Student Research Day Awards – School of Dental Medicine

Dean’s Award – Alana Marczak (Mentors Dr. Aditya Tadinada and Dr. Sumit Yadav) “Lower-Dose 180° CBCT Offers Comparable Information for Mini-Implant Placement when Contrasted to Conventional 360° Protocol”

Associate Dean’s Award – Steven Halepas (Mentor Dr. Frank Nichols) “PLA2 Hydrolysis of *P. gingivalis* Lipid 654 is Enantioselective”

ADA/Dentsply Student Clinician Award – Faith Adewusi (Mentor Dr. Ashok Kulkarni, NIH) “Aquaporin-5-Cre-mediated targeted expression of TNF- α results in an Inflammatory Disorder of the Salivary glands”

Colgate-Palmolive Student Research Award – Paul Dyrkacz (Mentor Dr. Mina Mina) “Expression of BSP-GFPtpz Transgene during Dentinogenesis and Osteogenesis”

CT Holistic Health Association Award – Lena Cantone (Mentors Dr. Effie Ioannidou and Dr. Patricia Diaz) “Salivary Urea and Periodontal Microbiome in End Stage Renal Disease”

Gustave Perl Award – Emily Sachs (Mentor Dr. Sumit Yadav) “Gender variation in palatal bone thickness for mini-implant placement”

University of Connecticut School of Dental Medicine Society of Alumni & Friends Award – Nicholas Camic (Mentor Dr. Aditya Tadinada) “Using Motion-Sensing Technology as a Touchless Interface for Accessing Patient Records and Radiographs During Endodontic Procedures”

Johnson & Johnson Research Excellence Award – Jia Liu (Mentor Dr. David Shafer) “Secretome of Resolvin E1-activated Osteoblasts”

The Dental Student Research Society Award – Xiaoxiao Hong (Mentor Dr. Caroline Dealy) “Identifying Anabolic and Catabolic Growth Factor Signals in Osteoarthritis”

Omicron Kappa Upsilon Awards

Faith Adewusi
Lauren Dulieu
Leila Fussell
Xiaoxiao Hong
Julia Karpman
Michelle Llinas
John Power

Nicholas Camic
Paul Dyrkacz
Bradford Ganz
Owen Insel
Daniel Lee
Raquel Manley
Emily Sachs

Lena Cantone
Andrew Emery
Steven Halepas
Johnny Joseph
Jia Liu
Alana Marczak
Sydney Schneider

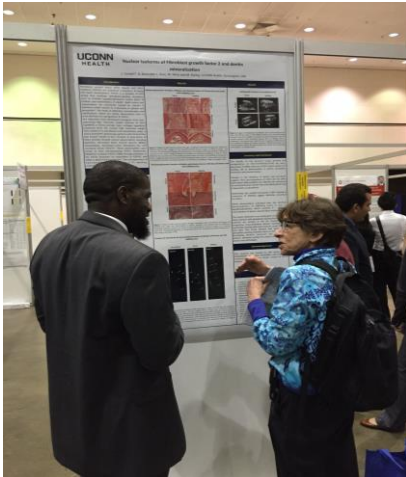
AADR presentations (Los Angeles, California)

The AADR Annual Meeting was held March 16-19th in Los Angeles, CA. UConn SDM was well represented and had a total of 18 presentations/posters.

Oral Presentations:

- Dr. Efthimia Ioannidou, “The Compensation Gap in Academia, why it is important and how it affects your research career”
- Dr. Efthimia Ioannidou, “Role-play exercise on negotiation skills”
- Dr. Rajesh Lalla, “Hard Tissue Complications of Cancer Treatment”
- Dr. Rajesh Lalla, “Infectious Complications of Cancer Treatment”
- Ivanna Vidovic (Mina), “Lineage tracing of α SMA perivascular cells during reparative dentinogenesis”
- Dr. Sumit Yadav, “The effect of intermittent parathyroid hormone on the mandibular condylar cartilage”

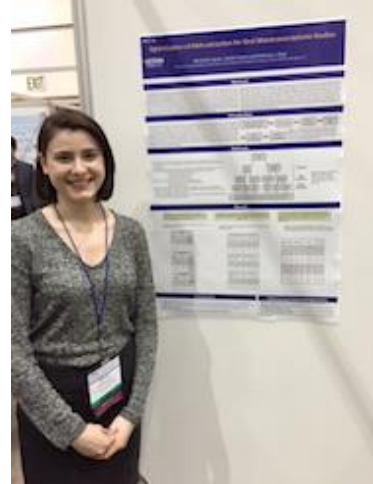
Posters:



- Anushree Banerjee (Mina) “Differential Effects of FGF2 on Osteogenesis and Dentinogenesis *in Vitro*”
- Eliane Dutra (Tadinada/Yadav) “Cellular and matrix response of the mandibular condylar cartilage to botulinum toxin”
- Paul Dyrkacz (Mina) “Expression of BSP-GFP^{tpz} Transgene during Dentinogenesis and Osteogenesis”
- Leila Fussell (Ioannidou) “A 10-year bibliometric analysis of authorship gender in periodontal literature”
- Owen Insel (Tadinada/Yadav) “CBCT Demonstrates Increased Bone Density in Osteoporotic Patients on Oral-anti-resorptives Patients on Oral Anti-resorptive Drug Therapy

Johnny Joseph explaining his work to Dr. Martha Somerman,
Director of NIDCR

- Johnny Joseph (Hurley/Mina) “Nuclear Isoforms of Fibroblast Growth Factor 2 and Dentin Mineralization”
- Satoko Matsumura (Tadinada) “Pixel intensities of dipotassium-phosphate-phantoms differentiate tissues on skull CBCT scans”
- Alana Marczak (Tadinada/Yadav) “Lower-Dose-180° rotational CBCT Offers Comparable Information for Mini-Implant Placement”
- Dr. Susan Reisine “Oral-Health-Related-Quality of Life Outcomes Among Older Adults Participating in a Community-based Intervention”
- Emily Sachs (Upadhyay/Tadinada/Yadav) “Gender variation in palatal bone thickness for mini-implant placement”
- Sydney Schneider (Upadhyay/Tadinada/Yadav) “Gender and facial type variation in buccal bone thickness in maxilla and mandible”
- Michelle Spoto (Diaz) “Optimization of RNA Extraction for Oral Metatranscriptome Studies”



Michelle Spoto at the AADR meeting in Los Angeles

Yankee Dental Congress (Boston, MA)

- Nicholas Camic (Tadinada) - “Using Motion-sensing Technology As a Touchless Interface for Accessing Electronic Health Records”
- Owen Insel (Tadinada/Yadav) - “Evaluation of Changes in Osteoporotic Patients on Oral Anti-resorptive Drug Therapy: a CBCT Study”
- Satoko Matsumura (Tadinada) - “Value of a simple radiographic phantom to evaluate various tissue densities in a clinical setting using CBCT”
- David Remiszewski (Bidra/Litt) - “Changes in Facial Naturalness with Increases in Vertical Dimension of Occlusion in Class 1 Dentate Models: An Un-Blinded Analysis”
- Sydney Schneider (Upadhyay/Tadinada/Yadav) - “Evaluation of the Diagnostic Efficacy of Two CBCT Protocols in Reliably Detecting the Location of the Inferior Alveolar Nerve Canal”

UConn SDM in the News

UConn School of Dental Medicine Wins Prestigious Gies Award

<http://today.uconn.edu/2016/01/uconn-school-of-dental-medicine-wins-prestigious-gies-award/>

Dr. J. Robert Kelly was interviewed on his work with “Developing a Solution to the Problem of Dry Mouth”

<http://today.uconn.edu/2016/01/developing-a-solution-to-the-problem-of-dry-mouth/>

Dr. Aditya Tadinada was interviewed by DrBicuspid.com for an Article entitled “iPad matches clarity of medical-grade editor”.

<http://www.drBicuspid.com/index.aspx?Sec=sup&Sub=img&Pag=dis&ItemId=318674&wf=2531>

Other Research News

Lincus.uconn.edu is now available. This is a great tool that enables one to find faculty experts by research keywords, faculty names, or department at UConn and UConn Health. This may help you in identifying suitable collaborators across campuses. You need your UConn NetID to access.

<https://login.uconn.edu/cas/login?service=http://lincus.uconn.edu/lincus/default/user/login>

Save the Date

Please mark your calendars. The SCOB Symposium will be held on Monday, June 6, 2016. More details to come.



SDM Research Seminar Series – Thursday, April 28, 2016

On Thursday, April 28th, Paul Hudobenko, the Interim Director of Sponsored Program Services will join us in Friends Lecture Room at 12 noon. Paul will be discussing the recent and upcoming changes to NIH grant procedures. The information that Paul will share is important to know as you prepare your grant applications.

Research Interview Rooms

We currently have 2 SDM Research Interview Rooms located at L7110 and L7112 (adjacent to the Main Hospital Elevators), which can be reserved for research interview use. These rooms may be reserved for use by accessing the calendar RM-L7110 – Research Interview Room or RM-L7112-Interview Room.

NIDCR Dental School Ranking

Currently, there are 66 U.S. dental schools. In FY15, of the 48 dental schools that received any funding from the National Institute of Dental and Craniofacial Research (NIDCR), the UConn SDM ranked 13th. The school's average ranking over the past five years in funding from NIDCR was 16th.

School of Dental Medicine Research Office

Located in AG017

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