

SoDM Faculty Research Interests

Foundational Sciences

Raymond Dionne, DDS, MS, PhD

Pharmacologic management of dental fear/anxiety, pharmacologic management of acute and chronic pain, biomarkers of pain and analgesia

Linda May, PhD, MS

Exercise during pregnancy; child development- specifically as it relates to heart, body composition, and oral health measures for the baby before and after birth; improving the overall health of women and children

Mark Moss, DDS, PhD

Community engagement to reduce health disparities, epidemiologic impact of social determinants on oral health, application of systems modeling to public health and health services, public policy to improve access to care for underserved populations, translating biologic mechanisms of health and disease to populations

Ramiro Murata, DDS, MS, PhD

Microbiology and mechanisms of biology, and effects of natural products against infectious diseases

Shannon Wallet, PhD

Mechanisms associated with altered innate immune that lead to dysregulated adaptive immunity, epithelial cell biology and signaling to innate and adaptive immune homeostasis and dysfunction to: pancreatic cancer, type 1 diabetes, and periodontal disease

Wanda Wright, RN, DDS, MS, MSD

Oral health disparities, oral health related quality of life, increasing access to oral health care, increasing diversity of the oral health workforce, program development, and integrating public health training and research into dental education.

Pediatric Dentistry and Orthodontics

Loren Alves, DMD, DABPD, FAAPD

Pediatric behavior management and matriarchal behavior influences

Robert Keim, DDS

The social psychology of facial appearance and evolving orthodontic practice and treatment patterns

Alex Kordis, DDS

Infant oral health, early childhood caries prevention, dental caries prevention

V. Wallace McCarlie

Dentofacial orthopedics, oral health literacy, history of dental medicine

Nikki G. Tucker, DDS

Access to care challenges in pediatric dental population at SoDM, effectiveness in use of silver diamine fluoride in the pediatric dental population

Michael Webb, DDS, MEd

Sedation and anesthesia in pediatric dentistry, treatment of medically compromised children, medical emergency training, resident education

Surgical Sciences

Isabel Gay, DDS, MS

Oral health disparities groups with special emphasis in type 2 diabetes mellitus; microbiology, periodontal diseases and therapy, tissue regeneration by using stem cell therapies, and bimolecular signaling in stem cell differentiation

Alex Gillone, DDS, MS

Implant dentistry, guided bone regeneration and periodontal regeneration, soft tissue management and cosmetic dentistry, relationship between systemic disease and periodontal disease, quorum sensing within the oral microbiota

Kimberly Gise, DDS

Oral health disparities, cultural competency in health care, improving access to care

Yifan Guo, MD

Cleft lip and palate, maxillofacial bone healing, sleep apnea surgery, orthognathic surgery, maxillofacial trauma

Paul Lindauer, DDS

Application of new clinical instruments and techniques to improve treatment outcomes and reduce pain associated with endodontic therapy

Acela Martinez Luna, DMD, MS

Implant dentistry, digital dentistry, bone regeneration, relationship between systemic diseases and periodontal disease

David Paquette, DMD, MPH, DMsC

Novel diagnostic, preventive and therapeutic interventions for periodontal disease; clinical trials, design and statistical considerations; associations of periodontal disease with cardiovascular disease, diabetes and obesity

Stevan Thompson, DDS

Bone tissue scaffolds, and regenerative biology in maxillofacial skeletal reconstruction, the diagnosis and surgical management of diseases/disorders, traumatic injuries, anatomic deformities and aesthetic reconstruction of the oral and maxillofacial region of the face/head. Fellowship training in treating head and neck vascular anomalies/birthmarks, surgical placement of dental implants, removal of teeth and other dentoalveolar- preprosthetic surgical procedures

General Dentistry

Robert Carter Jr., DDS, MAGD, ABGD

Managing medical emergencies in the dental clinic

Linc Conn, DDS, MPH

Materials testing, clinical materials research, and health services research

Benjamin Dyer Jr., DDS, MAGD

Dental practice management

Taneet Ghuman, BDS

Performance of dental materials evaluating dentin adhesives, dental cements, resin composites and ceramic restorative materials

Janet Hood, DDS, MEd

Community-based service learning, rural access to oral health care, applying educational methodology in clinical teaching, instructional design

Iquebal Hasan, BDS

Dry mouth and lips, burning mouth, oral infections: fungal, bacterial and viral, oral lesions, oral manifestations of systemic diseases, minor salivary gland biopsies & sjogren's syndrome diagnosis, dental clearance for radiation, chemotherapy, bisphosphonate, solid organ transplant & BMT

Roopwant Kaur, BDS, MS

Minimally invasive operative dentistry, caries management, implant restorations

Luis Schlichting, DDS, MS, PhD

Biomechanical approaches to address questions about biomaterials and their physical properties

Luis Sensi, DDS, MS, PhD

Biomechanical approaches to address questions about biomaterials and their physical properties