

# OCTRI TL1 Awardees

Each year, the Oregon Students Learn & Experience Research (OSLER) program awards a group of M.D., M.D./M.P.H., Ph.D., and D.M.D. students and postdoctoral fellows with awards that allow them to participate in clinical and translational research projects.

## 2021 OSLER TL1 AWARDS

**Stephen Bowden, MD**, School of Medicine Resident in Neurological Surgery, OHSU

**Mentors:** Melissa Wong, Ph.D., Associate Professor and Vice-Chair, Cell, Developmental and Cancer Biology, OHSU

**Research Project:** Phenotyping Glioma through Liquid Biopsy of Circulating Hybrid Cells

**Chandra Char**, Health Promotion and Health Behavior Ph.D. Program, College of Public Health and Human Sciences, OSU

**Mentor:** Veronica Irvin Ph.D., M.P.H., Associate Professor, Celia Strickland Austin and G. Kenneth Austin III Endowed Professor in Public Health, OSU; Kathleen Bogart Ph.D., M.A., Associate Professor, School of Psychological Science, OSU; and Willi Horner-Johnson Ph.D., Associate Professor, Institute of Development and Disability, OHSU and School of Public Health, OHSU-PSU

**Research Project:** Race and hearing loss on health care experiences of deaf and hard of hearing adults prior to and during the time of COVID-19

**Jacqueline Emathingier**, School of Medicine, M.D./Ph.D. Physiology and Pharmacology Graduate Program, OHSU

**Mentor:** Susan Gurley, M.D., Ph.D., Associate Professor of Medicine, Division Head, Nephrology and Hypertension, OHSU

**Research Project:** Elucidating the protective role of proximal tubule ACE2 in acute kidney injury

## TL1 PROGRAM CONTACTS

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## RFA

<https://www.ohsu.edu/octri-osler-tl1>

**Nathaniel Evans**, Bioinformatics and Computational Biomedicine Ph.D. Program, OHSU

**Mentor:** Shannon McWeeney, Ph.D., Professor of Medicine and Medical Informatics and Clinical Epidemiology, Division Head Bioinformatics and Computational Biology, OHSU

**Research Project:** Improving uncertainty quantification in drug response predictions to guide precision oncology

**Stephanie Foster**, Environmental and Occupational Health Ph.D. Program, College of Public Health and Human Sciences, OSU

**Mentor:** Molly Kile, Sc.D. Associate Professor, School of Biological and Population Health Sciences, Oregon State University

**Research Project:** Flame-Retardant Chemical Exposures among Young Children and Disproportionately Exposed Communities

**Jessica Hebert, Ph.D.**, OHSU School of Medicine Postdoctoral Fellow in Anesthesiology and Perioperative Medicine

**Mentor:** Michael Hutchens, M.D., M.A., Professor of Anesthesiology and Perioperative Medicine, OHSU

**Research Project:** Long-Term Impact of Acute Kidney Injury: Reproductive, Pregnancy, and Offspring Health

**Arielle Hernandez, Ph.D., M.P.H.**, OHSU-PSU School of Public Health Postdoctoral Fellow

**Mentor:** Kevin Winthrop, M.D., M.P.H., Professor of Infectious Diseases and Ophthalmology, OHSU; Professor of Public Health and Preventive Medicine, OHSU-PSU School of Public Health

**Research Project:** Longitudinal assessment of patient immune responses during treatment of pulmonary nontuberculous mycobacterial disease

**Dakota Klamovich**, Behavioral Neuroscience Ph.D. Program, OHSU

**Mentor:** Bonnie Nagel, Ph.D., Associate Professor of Medicine, Psychiatry and Behavioral Neuroscience, OHSU

**Research Project:** Predicting Risk for Adolescent-Emergent Depression

**Angela Lee**, College of Arts and Sciences, Clinical Psychology Ph.D. Program, University of Oregon

**Mentors:** Maureen Zalewski, Ph.D., Associate Professor, Clinical Psychology, University of Oregon and Anna Wilson, Ph.D. Associate Professor, Pediatrics, Psychiatry and Anesthesiology and Perioperative Medicine, OHSU and Kristen Mackiewicz Seghete, Ph.D., Assistant Professor, Psychiatry, OHSU

**Research Project:** Intergenerational Impacts of Maternal Chronic Pain: Examining the Roles of Maternal Emotion Dysregulation and Parenting Stress

## 2020 OSLER NIH TL1 AWARDS

**Faye Andrews, M.P.H.** Environmental and Occupational Health Ph.D. Program, College of Public Health and Human Sciences, OSU

**Mentor:** Molly Kile, Sc.D. Associate Professor, School of Biological and Population Health Sciences, Oregon State University

**Research Project:** Environmental Metal Exposures and Effects on Maternal and Child Health in Bangladesh

**Robert (Blake) Buchalter, M.P.H.** Public Health and Epidemiology Ph.D. Program, College of Public Health and Human Sciences, OSU

**Mentors:** Susan E. Carozza, Ph.D., Associate Professor of Epidemiology, Oregon State University

**Research Project:** Rural Cancer Disparities: Shifting Classifications of Rurality and Integration of Spatial Methods

**Benjamin Elstrott**, School of Medicine, M.D. Program, OHSU

**Mentors:** H. E. Hinson, M.D. M.C.R., Associate Professor, Neurocritical Care, OHSU; Michael Heinrich, M.D., Professor of Medicine, OHSU

**Research Project:** Biomarkers of Neurologic Injury in Immune Effector Cell-associated Neurotoxicity

**Lauralee Fernandez, M.P.H.** Epidemiology Ph.D. Program, OHSU-PSU School of Public Health

**Mentors:** Seth O'Neal, M.D., M.P.H. Assistant Professor of Epidemiology, OHSU-PSU School of Public Health; Hector H. Garcia, M.D., Ph.D., Professor, Institute of Neurological Sciences, University Peruana Cayetano Heredia

**Research Project:** Anemia and Heavy Metals in Tumbes, Peru

**Caroline King, M.P.H.** School of Medicine, M.D./Ph.D. Biomedical Engineering Graduate Program, OHSU

**Mentors:** Philip Todd Korthuis, M.D. M.P.H., Professor of Medicine and Chief, Addiction Medicine Section; Kenneth John McConnell, Ph.D., Professor of Emergency Medicine and Director of the Center for Health Systems Effectiveness, OHSU

**Research Project:** Modeling the Impact of Hospital-based Addiction Consult Services on Post-Discharge Mortality

**Matthew Newman**, School of Medicine, M.D. Program, OHSU

**Mentors:** Evan Lind, Ph.D., Assistant Professor of Molecular Microbiology and Immunology, OHSU; Elie Traer, M.D., Ph.D., Assistant Professor of Medicine, OHSU

**Research Project:** High-Dimensional Characterization of Tumor and Immune Microenvironment of Stromal Cell Populations in FLT3-ITDAML in Response to Tyrosine-Kinase Therapy

## 2019 OSLER NIH TL1 AWARDS

**Nadir Balba, M.A.** Behavioral Neuroscience Ph.D. Program, OHSU

**Mentors:** Mary Heinricher, Ph.D., Professor and Vice-Chair for Research, Neurological Surgery and Behavioral Neuroscience, Associate Dean for Basic Science, School of Medicine and Miranda Lim, M.D., Ph.D. Assistant Professor, Departments of Neurology, Medicine, and Behavioral Neuroscience

**Research Project:** Pain and Photosensitivity in Traumatic Brain Injury

**Robert Beverly**, College of Public Health and Human Sciences, Nutrition Ph.D. Program, Oregon State University

**Mentors:** Brian Scottoline, M.D., Ph.D., Associate Professor of Pediatrics, Division of Neonatology, OHSU and David Dallas, Ph.D. Assistant Professor of Nutrition, Oregon State University

**Research Project:** Identifying Differences in the Release of Bioactive Milk Peptides Across the Intestinal Tracts Between Term and Preterm Infants

**Matthew Dietz, D.O., M.S.Ed.,** School of Medicine Fellow in Pediatric Hematology & Oncology, OHSU

**Mentors:** Melissa Wong, Ph.D., Associate Professor and Vice-Chair, Cell, Developmental and Cancer Biology, OHSU

**Research Project:** Circulating Cells with Tumor Characteristics as Analytes of Pediatric High Grade Gliomas

**Akhila Nekkanti,** College of Education, Prevention Science Ph.D. Program, University of Oregon

**Mentors:** Kristen Mackiewicz Seghete, Ph.D., Assistant Professor, Psychiatry, OHSU; Elizabeth A. Skowron, Ph.D. Professor, Psychology, University of Oregon and Kate Mills, Ph.D. Assistant Professor of Psychology, University of Oregon

**Research Project:** Causal Relations Between Parenting Intervention and Children's Functional Brain Organization for Maltreatment-Exposed Families

**Jacqueline O'Brien, M.S.** College of Arts and Sciences, Clinical Psychology Ph.D. Program, University of Oregon

**Mentors:** Maureen Zalewski, Ph.D., Assistant Professor, Clinical Psychology, University of Oregon and Anna Wilson, Ph.D. Associate Professor, Pediatrics, Psychiatry and Anesthesiology and Perioperative Medicine, OHSU

**Research Project:** Impact of Maternal BPD and Parenting Quality on Child Hair Cortisol Concentrations and Behavior

**Kellee Parker, D.O.** School of Medicine Fellow in Pediatric Hematology & Oncology, OHSU

**Mentors:** Susan Lindemulder, M.D., M.C.R., Associate Professor, Pediatrics, Pediatric Hematology/Oncology, OHSU and Erika Cottrell, Ph.D., M.P.P., Program Director, Health Experiences Research Network, OCTRI, OHSU

**Research Project:** Parental decision-making regarding participation in pediatric oncology clinical trials exploring a reduction in therapy for acute lymphoblastic leukemia

**Hannah Smith,** School of Medicine, M.D. Program, OHSU

**Mentor:** Antonio Frias, M.D. Professor, Obstetrics & Gynecology, OHSU; and Division of Reproductive & Development Sciences, Oregon National Primate Center,

**Research Project:** In Vitro Characterization of Acute Zika Virus Infection in Placental Tissue

**Taylor Vega,** School of Medicine, M.D. Program, OHSU

**Mentors:** Honora Englander, M.D., F.A.C.P., Associate Professor, Medicine, Division of Hospital Medicine, OHSU

**Research Project:** Discerning Critical Components of Substance Use Disorder Care in Community Hospitals in Oregon

## 2018 OSLER NIH TL1 AWARDS

**William Bologna, Ph.D., Au.D.,** Portland VA, National Center for Rehabilitative Auditory Research and OHSU School of Medicine, Otolaryngology

**Mentors:** Michelle Molis, Ph.D., Research Assistant Professor, Otolaryngology, and Curtis Billings, Ph.D., Research Assistant Professor, Otolaryngology

**Research Project:** Effects of age on brainstem encoding of speech in noise

**Alexandra Stafford, Ph.D.,** School of Medicine, Behavioral Neuroscience

**Mentors:** Tamara Phillips-Richards, Ph.D., Professor, Behavioral Neuroscience and Marina Guizzetti, Ph.D., Professor, Behavioral Neuroscience

**Research Project:** Investigating behavioral and neurotoxic effects of combined ethanol and methamphetamine

**Mollie Marr,** School of Medicine, M.D./Ph.D. Program

**Mentors:** Damien Fair, PA-C., Ph.D., Professor, Behavioral Neuroscience, and Alice Graham, Ph.D., Postdoctoral Trainee in Behavioral Neuroscience

**Research Project:** Maternal Psychological Stress During Pregnancy as a Key Mechanism for the Intergenerational Transmission of Childhood Traumatic Stress

**Kaycee Moshofsky,** School of Medicine, M.D. Program

**Mentors:** Evan Lind, Ph.D., Assistant Professor, Molecular Microbiology & Immunology, and Jeffrey Tyner, Ph.D., Assistant Professor, Cell, Developmental & Cancer Biology

**Research Project:** Combined MEK inhibitory and PD-1 blockade in AML

**Mary Willis,** Oregon State University, Ph.D. Candidate in Environmental & Occupational Health

**Mentor:** Perry Hystad, Ph.D., Assistant Professor, OSU Environmental & Occupational Health

**Research Project:** Impact of air pollution from shale gas development on adverse birth outcomes

## 2017 OSLER NIH TL1 AWARDS

**Justin Caouette, Ph.D.,** School of Medicine, Psychiatry

**Mentors:** Sarah Feldstein Ewing, Ph.D., Professor of Medicine, Psychiatry; Bonnie Nagel, Ph.D., Associate Professor of Medicine, Psychiatry and Behavioral Neuroscience; and Damien Fair, Ph.D., PA-C, Associate Professor of Medicine, Behavioral Neuroscience and Psychiatry

**Research Project:** Peer process Peer processes in the social neuroscience of adolescent cannabis use

**Hanna Gustafsson, Ph.D.,** School of Medicine, Developmental Psychology

**Mentors:** Joel Nigg, Ph.D., Director, Division of Psychology, Professor of Medicine, Psychiatry, Pediatrics, and Behavioral Neuroscience and Sarah Karalunas, Ph.D., Assistant Professor of Medicine, Psychiatry

**Research Project:** Infant predictors of psychopathology: Emotional and cognitive control as transdiagnostic markers of risk

**Amanda Stone, Ph.D.**, School of Medicine, Psychiatry

**Mentors:** Anna Wilson, Ph.D., Assistant Professor, Anesthesiology and Amy Holley, Ph.D., Assistant Professor, Development and Disability

**Research Project:** Negative Interpretation Bias of Children's Symptoms in Mothers with Chronic Pain: Implications for Children's Physical Health

**Tyler Woodell, M.D.**, School of Medicine, Nephrology and Hypertension

**Mentors:** David Ellison, M.D., Professor, Physiology and Pharmacology, Nephrology and Hypertension; and Jessica Weiss, M.D., M.C.R., Assistant Professor, Nephrology and Hypertension

**Research Project:** Determining Acid Base Status Among Hemodialysis Patients

**Brittany Alperin**, School of Medicine, Ph.D. candidate in Behavioral Neuroscience

**Mentors:** Sarah Karalunas, Ph.D., Assistant Professor of Medicine, Psychiatry and Joel Nigg, Ph.D., Director, Division of Psychology, Professor of Medicine, Psychiatry, Pediatrics, and Behavioral Neuroscience

**Research Project:** How the mind wanders in ADHD and why it matters

**Theresa Cheng, Ed.M., MS**, University of Oregon, Ph.D. Candidate in Developmental Social Neuroscience

**Mentors:** Jennifer Pfeifer, Ph.D., Associate Professor, Psychology; Philip Fisher, Ph.D., Philip H. Knight Chair, Professor, Psychology; Nicholas Allen, Ph.D., Director, Center for Digital Mental Health and Clinical Training, Professor, Psychology; Damien Fair, Ph.D., PA-C, Associate Professor of Medicine, Behavioral Neuroscience and Psychiatry; and Kristen Mackiewicz-Seghete, Ph.D., Assistant Professor, Psychiatry

**Research Project:** (1) Dimensions of adversity in adolescent intrinsic brain connectivity, (2) Predicting depression from puberty-driven trajectories of brain connectivity in girls

**Maria Carolina González-Prats, M.A.**, Portland State University, Ph.D. candidate in Social Work and Social Research

**Mentor:** Christina Nicolaidis, M.D., M.P.H., Professor, Social Determinants of Health, Associate Professor of Medicine and Public Health.

**Research Project:** Examining the Narrative of Military Sexual Trauma (MST) Narratives

**Haley Holmer, M.P.H.**, OHSU-PSU School of Public Health, Ph.D. candidate in Epidemiology

**Mentors:** Jessina McGregor, Ph.D., Associate Professor, Pharmacy Practice; Rochelle Fu, Ph.D., Professor School of Public Health and Medical Informatics & Clinical Epidemiology; Amy Pakyz, Pharm.D., Ph.D., Associate Professor, Pharmacotherapy and Outcomes Science; and Sam Hohmann, Ph.D., Director, Research Analytics

**Research Project:** Metrics to Inform Antimicrobial Stewardship in the Hospital

**Katherine Michaelis**, School of Medicine, M.D./Ph.D. candidate in Physiology and Pharmacology

**Mentor:** Daniel Marks, M.D., Ph.D., Professor, Pediatrics

**Research Project:** The Role of Exosomes as Centrally Acting Endocrine Mediators of Pancreatic Cancer Cachexia

**Jeffrey Wagner**, School of Medicine, M.D. program, M.C.R. candidate

**Mentors:** Matthew Drake, M.D., Assistant Professor, Pulmonary and Critical Care Medicine; Christopher Evans, Ph.D., M.P.H., Assistant Professor General Internal Medicine and Geriatrics; Allison Fryer, Ph.D., Professor, Pulmonary and Critical Care Medicine; and David Jacoby, M.D., Professor, Pulmonary and Critical Care Medicine

**Research Project:** The Role of Airway Mucins 5ac and 5b in Upper Respiratory Tract Infection

**Barrett Welch, M.P.H.**, Oregon State University, Ph.D. candidate in Public Health and Human Sciences

**Mentor:** Molly Kile, Sc.D., Associate Professor, Public Health and Human Sciences

**Research Project:** Effects of prenatal and early-life metals exposure on humoral immunity in children

#### 2015 OSLER NIH TL1 AWARDS

**Amber Bannon**, School of Medicine, PhD in Cell and Development Biology Program

**Mentor:** Michael Heinrich, MD, Professor of Medicine, Hematology and Medical Oncology

**Research Project:** Bedside to Bench to Bedside: SDHA variants in Gastrointestinal Stromal Tumors

**Sarah Wicher**, School of Medicine, PhD in Physiology and Pharmacology Program

**Mentor:** Allison Fryer, PhD, Professor of Medicine, Pulmonary and Critical Care Medicine and Professor of Physiology and Pharmacology

**Research Project:** Eosinophils have a novel ability to repair lung function after ozone

**Zipei Fang**, School of Medicine, MD/PhD Program

**Mentor:** Bernard A. Fox, PhD, Associate Professor, Molecular Microbiology and Immunology

**Research Project:** Improving therapy for HNSCC: Combination of STING-agonist and an Autophagosome-based Vaccine

**Heather McConnell**, School of Medicine, PhD in Neuroscience Program

**Mentor:** Edward Neuwelt, MD, Professor, Neurology

**Research Project:** Iron nanoparticle phagocytosis and Localization in Acute Neuroinflammation

*Joshua Woodward*, School of Medicine, MD Program

**Mentor:** Joshi Alumkal, MD, Associate Professor of Medicine, Hematology and Medical Oncology

**Research Project:** Bromodomain inhibition for the treatment of lethal, castration-resistant prostate cancer

#### 2015 OSLER NIH TL1 AWARDS

*Ryan Swan*, School of Medicine, PhD in Medical Informatics and Clinical Epidemiology Program

**Mentor:** Michael Chiang, MD, MA, Professor, Ophthalmology and Medical Informatics and Clinical Epidemiology

**Research Project:** Whole-exome sequencing and retinal imaging to improve outcomes in retinopathy of prematurity

*Chelsea Jenkins*, School of Medicine, PhD in Cancer Biology Program

**Mentor:** Jeffrey Tyner, PhD, Associate Professor of Medicine, Hematology and Medical Oncology

**Research Project:** Developing novel treatments for children with Juvenile Myelomonocytic **Leukemia**

*Robert Pranaat*, School of Medicine, MD Program

**Mentor:** Vishnu Mohan, MBBS, MIB, MBCS, FACP, Assistant Professor, Medical Informatics and Clinical Epidemiology

**Research Project:** Establishing the infrastructure and protocol for an In-Patient ICU rounds simulation

*Katy Lawson*, School of Medicine, MD Program

**Mentor:** David Jacoby, MD, Professor of Medicine, Pulmonary and Critical Care Medicine

**Research Project:** Eosinophil--nerve interactions in the pathogenesis of atopic dermatitis

*Gitanjali Narayanan*, School of Medicine, MD/PhD in Biomedical Engineering Program

**Mentor:** David Lewinsohn, MD, PhD, Associate Professor of Medicine, Pulmonary and Critical Care Medicine

**Research Project:** Characterizing the role of MR1 isoforms in MR1 antigen processing and presentation

#### 2014 OSLER NIH TL1 AWARDS

*Laura Healy*, School of Medicine, PhD in Cell & Development Biology Program



**Mentor:** Owen McCarty, PhD, Associate Professor, Biomedical Engineering, Cell & Developmental Biology and Hematology and Medical Oncology

**Research Project:** Development of contact pathway inhibitors for the treatment of sepsis

**Tyler Huett**, School of Medicine, PhD in Molecular Microbiology & Immunology Program

**Mentor:** Bernard A. Fox, PhD, Associate Professor of Molecular Microbiology and Immunology

**Research Project:** Capturing mutated short-lived proteins in clinical autophagosome cancer vaccines

**Jaime Zelaya, Jr.**, School of Medicine, MD/PhD Program

**Mentor:** Michelle Cameron, MD, Assistant Professor of Neurology

**Research Project:** Mechanisms of Imbalance in MS

#### 2014 OSLER NIH TL1 AWARDS (SHORT-TERM)

**Paul Jones**, School of Medicine, MD Program

**Mentor:** Brian Johnstone, PhD, Professor and Research Director, Orthopedics and Rehabilitation

**Research Project:** Identifying articular cartilage stem cell markers

**Gwendolyn McGinnis**, School of Medicine, MD Program

**Mentor:** Jacob Raber, PhD, Professor of Behavioral Neuroscience, Neurology, and Radiation Medicine; Michael Gough, PhD, Clinical Research Assistant Professor of Radiation Medicine

**Research Project:** Suppression of the T cell Response and Enhancement of Detrimental Effects of Radiation on the Brain

**Neil Mistry**, School of Medicine, MD Program

**Mentor:** Joshi Alumkal, MD, Assistant Professor of Medicine

**Research Project:** Androgen Receptor-Dependence of Bromodomain Inhibitor Treatment Effect in Lethal Prostate Cancer

**Ishan Patel**, School of Medicine, MD Program

**Mentor:** Owen McCarty, PhD, Associate Professor, Biomedical Engineering, Cell & Developmental Biology, and Hematology & Medical Oncology

**Research Project:** Optimization of a labeling platform for the detection of procoagulant leukemic cells

**Meghan Sampson**, School of Medicine, MD Program

**Mentor:** Dennis McCarty, PhD, Professor and Vice Chair, Department of Public Health & Preventive Medicine

**Research Project:** Federally Qualified Health Centers and Integrated Care for Alcohol and Substance Abuse Disorders in Oregon Coordinated Care Organizations

**Willy Terrall**, School of Medicine, MD Program

**Mentor:** James P. Dolan, MD, M.C.R.; Assistant Professor of Gastrointestinal and General Surgery; Anthony Barnes, PhD, Assistant Professor of Pediatrics

**Research Project:** Comparative Transcriptome Profiling for Predicting Response to Neoadjuvant Chemoradiotherapy in Esophageal Adenocarcinoma

#### 2014 SUMMER OCTRI STUDENT AWARDS

**Nathan Anderson**, School of Medicine, MD Program

**Mentor:** Martin A. Schreiber, MD, FACS, Professor of Surgery

**Research Project:** Efficacy and Safety of Frozen Red Blood Cells for Transfusion in Trauma Patients

**Colin Bergstrom**, School of Medicine, MD Program

**Mentor:** Terry Morgan MD, PHD, Associate Professor of Pathology

**Research Project:** Pairwise Genetic Analysis of Primary and Metastatic Endometrial Adenocarcinoma

**Anfin Erickson**, School of Medicine, MD Program

**Mentor:** Martin Schreiber, MD, FACS, Professor of Surgery

**Research Project:** Thromboelastography Based Dosing of Enoxaparin for Thromboprophylaxis: A Prospective Randomized Trial

**Brandon Lei**, School of Medicine, MD Program

**Mentor:** Summer Gibbs, PhD, Assistant Professor, Department of Biomedical Engineering

**Research Project:** Local administration of novel nerve-specific fluorophores for nerve-sparing image-guided radical prostatectomy

**Paul Montgomery**, School of Medicine, MD Program

**Mentor:** James Rosenbaum, MD, Professor of Ophthalmology, Medicine and Cell Biology; Mark Asquith, PhD, Department of Behavioral Neuroscience

**Research Project:** Determining the impact of HLA B27 expression on the gut microbiome

**Sarah Shangraw**, School of Medicine, MD Program

**Mentor:** Pamela Cassidy, PhD, Research Associate Professor, Department of Dermatology

**Research Project:** Effect of Glutathione Peroxidase on Oxidative Stress in Human Melanocytes

**Jonathan Yih**, School of Dentistry, DMD Program

**Mentor:** Carmem Pfeifer, DDS, PhD, Assistant Professor of Biomaterials & Biomechanics

**Research Project:** Improving physical and optical properties of dental composites via thiourethane additives

#### 2013 OSLER NIH TL1 AWARDS

**Marilynn Chow**, School of Medicine, PhD in Cancer Biology Program

**Mentor:** Jeffrey W. Tyner, PhD, Assistant Professor, Hematology and Medical Oncology

**Research Project:** Delineation of ROR1 signaling cascades to define new therapeutic modalities for t(1;19) B-ALL patients

**Spencer Watson**, School of Medicine, PhD in Cancer Biology Program

**Mentor:** Joe Gray, PhD, Chair, Department of Biomedical Engineering

**Research Project:** Identifying drug-able targets of the tumor microenvironment in HER2+ breast cancer

**David Noyd**, School of Medicine, MD/MPH Program

**Mentor:** Kevin Winthrop, MD, MPH, Assistant Professor of Infectious Diseases, Ophthalmology, Public Health and Preventive Medicine (joint appointment)

**Research Project:** Dengue epidemic in Puerto Rico 2012: Identifying risk factors for severe dengue and dengue-associated hemophagocytic lymphohistiocytosis to improve clinical detection in the peri-vaccination era

#### 2013 AHRQ T32 PRE-DOCTORAL AWARDS

**Vanessa Lee**, School of Medicine, MD/MPH Program

**Mentor:** Aaron Caughey, MD, PhD, MPH, MPA, Chair, Department of Obstetrics and Gynecology and Associate Dean for Women's Health Research and Policy

**Research Project:** Examining the impact of a program to reduce elective induction of labor at an academic medical center

**Mahnooh Nik-Ahd**, School of Medicine, MD/MPH Program

**Mentor:** Dennis McCarty, PhD, Professor, Division Head, Health Services Research

**Research Project:** Effect modification in a multi-center randomized trial of exercise as treatment for substance abuse

#### 2013 OSLER NIH TL1 AWARDS (SHORT TERM)

**Britta Ameal**, School of Medicine, MD Program

**Mentor:** Aaron Caughey, MD, PhD, MPH, MPA, Chair, Department of Obstetrics and Gynecology and Associate Dean for Women's Health Research and Policy

**Research Project:** Is increased cervical dilation on presentation to labor and delivery units associated with a reduced rate of cesarean or operative vaginal delivery?

**Raluca McCallum**, School of Medicine, MD Program

**Mentor:** Eric Schnell, MD, PhD, Assistant Professor, Anesthesiology

**Research Project:** Axonal sprouting and synapse development during post-traumatic adult neurogenesis

**Sam Moulton**, School of Medicine, MD Program

**Mentor:** Amie Peterson, MD, Neurology

**Research Project:** Changes in muscle strength associated with impaired balance in individuals with Parkinson's disease

**Brenda Niu**, School of Medicine, MD Program

**Mentor:** Aaron Caughey, MD, PhD, MPH, MPA, Chair, Department of Obstetrics and Gynecology and Associate Dean for Women's Health Research and Policy

**Research Project:** Effect of new gestational diabetes screening guidelines on treatment outcomes

**Brandon Tullis**, School of Medicine, MD Program

**Mentor:** Mark Pennesi, MD, PhD, Assistant Professor, Ophthalmology

**Research Project:** Evaluation of the Neuroprotective Potential of 5HT<sub>2A</sub> Antagonists MCI-9042 and ketanserin in a light damage model of retinal degeneration

**Amanda Wong**, School of Medicine, MD Program

**Mentor:** James T. Rosenbaum, MD, Division Chief of Arthritis and Rheumatic Diseases, Edward E. Rosenbaum Professor of Inflammatory Diseases.

**Research Project:** The Differentiation and Sub-Typing of Orbital Inflammation by Gene Expression Profiling for Diagnostic Purposes and Therapeutic Insights

#### 2012 OSLER NIH TL1 AWARDS

**Nathalie Javidi-Sharifi**, School of Medicine, PhD in Cancer Biology Program

**Mentor(s):** Brian J. Druker, MD, Director, Knight Cancer Institute and Jeffrey W. Tyner, PhD, Assistant Professor, Hematology and Medical Oncology

**Research Project:** New therapeutic targets in gastrointestinal stromal tumor

**Julia Marshall Leach**, School of Medicine, PhD in Biomedical Engineering Program

**Mentor(s):** Fay B Horak, PhD, Professor, Medicine, Neurology and Tamara L Hayes, PhD, Associate Professor, Medicine, Biomedical Engineering

**Research Project:** Developing a novel method of assessing fall risk and declining cognitive and motor function in MCI

**David Messenheimer**, School of Medicine, PhD in Molecular Microbiology and Immunology Program

**Mentor(s):** Bernard A. Fox PhD, Adjunct Professor, Molecular Microbiology and Immunology

**Research Project:** The roles of tumor immunogenicity and the adjuvant GM-CSF in the induction of regulatory T cells in multiple tumor vaccination adoptive therapies

**Jaime Zelaya, Jr.**, School of Medicine, MD/PhD Program

**Mentor(s):** Sandra Rugonyi, MS, PhD, Associate Professor, Biomedical Engineering

**Research Project:** Exploring the role that wall stress plays in determining abdominal aortic aneurismal expansion rate and addressing wall stress sensitivity to wall thickness using uniform and variable wall thickness mathematical models

#### 2012 OSLER NIH TL1 AWARDS (SHORT TERM)

**Kasim Mirza**, School of Medicine, MD Program

**Mentor(s):** Monica Hinds, PhD, Biomedical Engineering

**Research Project:** Thrombogenic characterization of induced pluripotent stem cell derived endothelial cells under conditions of variable hemodynamic conditioning

*Mario Padilla*, School of Medicine, MD Program

**Mentor(s):** Joshi Alumkal, MD, Assistant Professor, Medicine, Hematology and Medical Oncology

**Research Project:** Targeting LSD1 in prostate cancer

*Dawn Pruett*, School of Medicine, MD Program

**Mentor(s):** Terry Morgan, MD, PhD, Assistant Professor, Pathology and Obstetrics & Gynecology

**Research Project:** Potential genetic etiology of chronic vestibulitis: pilot study

*David Putnam-Pite*, School of Medicine, MD Program

**Mentor(s):** Brian Johnstone PhD, Research Director, Orthopedics and Rehabilitation

**Research Project:** Characterization of articular cartilage progenitor cell clones

*Phoebe Smitasin*, School of Medicine, MD Program

**Mentor(s):** Justin Cetas, MD, PhD, Assistant Professor, Neurological Surgery

**Research Project:** The effects of RVM dermorphin-saporin on vasospasm and cognitive impairment following SAH in rats

*Josha Woodward*, School of Medicine, MD Program

**Mentor(s):** William Skach, MD, Professor, Biochemistry and Molecular Biology

**Research Project:** Co-translational protein folding of ribosome-bound proteins: kinetic analysis

#### 2011 OSLER NIH TL1 AWARDS

*Autumn Fletcher*, School of Medicine, PhD Program in Molecular and Cellular Biosciences (PMCB)

**Mentor:** Melanie Gillingham, PhD, RD, Assistant Professor, Molecular and Medical Genetics

**Research Project:** A survey of patients with deficiencies in mitochondrial trifunctional protein

*Annika Giesbrecht*, School of Medicine, MD/MPH program

**Mentor:** Thomas Becker, MD, PhD, Professor, Public Health and Preventive Medicine

**Research Project:** Prevalence and Predictors of Colorectal Cancer Screening Among American Indian and Alaska Native People in the Pacific Northwest Tribes: A BRFSS Project 2009-2010

**James McCormack**, School of Medicine, PhD Biomedical Informatics program

**Mentor:** Joan Ash, Professor and Vice-Chair, Medical Informatics and Clinical Epidemiology

**Research Project:** A Comparison of Clinical Laboratory Practices for Cross-Organizational Exchange of Electronic Test Results: Exploring the Barriers and Facilitators in Office, Hospital, and Commercial Labs

**Tamara Olenyik**, School of Medicine, PhD Program in Molecular and Cellular Biosciences (PMCB)

**Mentor:** Buddy Ullman, PhD, Professor, Biochemistry and Molecular Biology

**Research Project:** In Vivo Evaluation of Genetic and Pharmacological Targeting of the Leishmania donovani Polyamine Biosynthetic

#### 2011 OSLER NIH TL1 AWARDS (SHORT TERM)

**Brandon Dyer**, School of Medicine, MD program

**Mentor:** Wayne Zundel, PhD, Assistant Professor and Division Director, Molecular Radiation and Cancer Biology

**Research Project:** Mapping the hypoxic/ischemic phosphoproteome in non-small cell lung cancer development

**Michael Layoun**, School of Medicine, MD program

**Mentor:** Peter Kurre, MD, Associate Professor, Pediatrics and Cell & Developmental Biology

**Research Project:** FLT-3-ITD-containing microvesicles as an AML biomarker.

**Kassi Kronfeld**, School of Medicine, MD program

**Mentor:** Justin Cetas, MD, PhD, Assistant Professor, Neurological Surgery

**Research Project:** The role of p450 eicosanoids in delayed microvascular spasm after subarachnoid hemorrhage.

**Jia Ooi**, School of Dentistry, DMD program

**Mentors:** John Engle, DDS, FADM, Assistant Professor, Pediatric Dentistry and Curt Machida, PhD, Professor, Integrative Biosciences and Pediatric Dentistry

**Research Project:** Differential attachment of mutans streptococci genetic strains to restorative materials in crowns in pediatric dental patients.

**Michael Ryan**, School of Medicine, MD program

**Mentor:** Erik Fromme, Associate Professor, Medicine, Radiation Medicine and Nursing; Assistant Director, center for Ethics in Health Care; Medical Director, OHSU Palliative Medicine & Comfort Care Team

**Research Project:** Drivers of quality of life decreases in head and neck radiotherapy patients.

**David Simmons**, School of Medicine, MD program

**Mentor:** Todd Korthius, MD, MPH, Associate Professor, Medicine and Public Health and Preventive Medicine

**Research Project:** Improving care for methamphetamine dependence and HIV.

## 2010 OSLER NIH TL1 AWARDS

**Stephanie Crocker**, School of Medicine, MD/MPH program

**Mentor:** Jennifer Devoe, MD, D.Phil., Assistant Professor, Family Medicine

**Research Project:** Assessing the impacts of the Healthy Kids Policy Initiatives on Oregon children's access to healthcare

**Betty Liu**, School of Medicine, MD/MPH program

**Mentor:** Patricia Carney, PhD, Professor, Family Medicine and Public Health & Preventive Medicine; Associate Director for Cancer Prevention, Control and Population Studies, Knight Cancer Institute

**Research Project:** Cancer screening practice in primary care practices of rural Oregon: Effects of the number and type of co-morbid conditions on cancer screening, and how primary care physicians converse with patients of varied health insurance and risks about cancer screening

**Elizabeth Martin**, School of Medicine, MD/MPH program

**Mentors:** Lynn Marshall, ScD, Assistant Professor, Orthopedics & Rehabilitation and Public Health & Preventive Medicine and Elizabeth Haney, MD, Assistant Professor, Medicine and Medical Informatics & Clinical Epidemiology

**Research Project:** Femoral volumetric bone density and dimensions in relation to 25-Hydroxy Vitamin D levels among older men

**Jedediah Perkins**, School of Medicine, PhD program in Biomedical Engineering

**Mentor:** Misha Pavel, PhD, Professor, Science & Engineering; Division Head, Biomedical Engineering

**Research Project:** Tracking cognitive decline in censored longitudinal data.

## 2010 OSLER NIH TL1 AWARDS (SHORT TERM)

**Iraj Kasimi**, School of Dentistry, DMD program



**Mentors:** Curt Machida, PhD, Professor, Integrative Biosciences

**Research Project:** Mutans Streptococci Isolates in caries-active children: Use of arbitrarily-primed polymerase chain reaction in the development of genetic fingerprints.

**Julie Doberne**, School of Medicine, MD program

**Mentors:** Frederick Tibayan, MD, Assistant Professor, Medicine, Division of Cardiothoracic Surgery and Kent Thornburg, PhD, Professor, Medicine; Associate Chief for Research, Division of Cardiovascular Medicine; Director, Heart Research Center

**Research Project:** The effects of increased systolic pressure in late fetal valve remodeling in an ovine model

**Daniel Cho**, School of Dentistry, DMD program

**Mentors:** John Mitchell, PhD, Assistant Professor, Biomaterials and Biomechanics

**Research Project:** Bone Graft Material to Revolutionize Tissue Regeneration

**Adeline Plesiu**, School of Medicine, MD program

**Mentor:** Thomas Scanlan, PhD, Professor, Physiology and Pharmacology and Kathryn Schuff, MD, Associate Professor, Medicine, Endocrinology, Diabetes and Clinical Nutrition

**Research Project:** Quantitative analysis of 3-iodothyronamine levels in human serum and tissues

**Ross Anderson**, School of Medicine, MD program

**Mentor:** Martin Schreiber, MD, Professor and Chief, Trauma and Surgical Critical Care

**Research Project:** The effect of lyophilized plasma reconstitution volume on clotting factors and coagulopathy in a multiple injury swine model of hemorrhagic shock

**Sarah Williams**, School of Medicine, MD program

**Mentor:** Susan Hayflick, MD, Professor and Chair, Molecular and Medical Genetics and Michael Kruer, MD, Fellow, Pediatrics, Divisions of Developmental Pediatrics and Pediatric Neurology

**Research Project:** Characterizing clinical features specific to subtypes of neurodegeneration with brain iron accumulation

## 2009 OSLER NIH TL1 AWARDS

**Rebecca Allen**, School of Medicine, MD/MPH program

**Mentor:** Dennis Bourdette, MD, Chair and Roy and Eulalia Swank Family Research Professor, Neurology

**Research Project:** The Effect of cognitive performance on quality of life and depression in multiple sclerosis

**Gregory Hamilton**, School of Medicine, MD program

**Mentor:** Martin Schreiber, MD, Professor and Chief, Surgery, Trauma and Surgical Critical Care

**Research Project:** The Effect of Vitamin C in Reconstituted Lyophilized Plasma on Post-Traumatic Dysfunctional Inflammation

**Matthew Iles-Shih**, School of Medicine, MD/MPH program

**Mentors:** Deborah Lewinsohn, MD, Associate Professor and Head, Pediatrics, Infectious Disease and David Lewinsohn, MD, PhD, Associate Professor, Internal Medicine, Pulmonary and Critical Care

**Research Project:** Analysis of non-response to CD8+ T cell-based ELISPOT immunoassay among individuals with active and latent Mycobacterium tuberculosis infection in Kampala, Uganda

**Marisol Toliver-Sokol**, School of Medicine, MD program

**Mentor:** Tonya Palermo, PhD, Associate Professor, Anesthesiology and Peri-Operative Medicine Clinical Research in Pain and Regional Anesthesia

**Research Project:** Daily mood as a predictor of sleep quality in adolescents with chronic pain

#### 2009 OSLER NIH TL1 AWARDS (SHORT TERM)

**Anna Cedar**, School of Medicine, MD program

**Mentors:** Kent Thornburg, PhD, Professor and Associate Chief for Research, Medicine, Division of Cardiovascular Medicine; Director, Heart Research Center and Perrie O'Tierney, PhD, Postdoctoral Fellow, Heart Research Center

**Research Project:** Low Muscle Mass and Low BMI in Oregon Women Are Associated With Oxidative Stress in the Term Placenta

**Steve George**, School of Dentistry, DMD program

**Mentor:** John Mitchell, PhD, Assistant Professor, Biomaterials and Biomechanics

**Research Project:** Orthodontic Mini-Implant Stress Distribution and an Implant "Collar"

**John Heineman**, School of Medicine, MD/MPH program

**Mentors:** John Saultz, MD, Professor and Chair, Family Medicine and Jennifer DeVoe, MD, DPhil, Assistant Professor, Family Medicine

**Research Project:** Access Assured: An Exploratory Analysis of Patient Satisfaction and Care Utilization

**Micah Naimark**, School of Medicine, MD program

**Mentor:** Dennis Crawford, MD, PhD, Assistant Professor, Orthopedics and Rehabilitation

**Research Project:** Knee function testing as a clinical measure of cartilage injury and treatment

**Alex Vo**, School of Dentistry, DMD program

**Mentor:** Curt Machida, PhD, Professor, Integrative Biosciences

**Research Project:** Potential Selection of Fluoride-Resistant Mutans Streptococci: Phenotypic Characterization of Cariogenicity Markers of Acid Tolerance and Generation of Biofilms

**Lei Wu**, School of Medicine, MD program

**Mentor:** Kirk Lalwani, MD, Associate Professor, Anesthesiology and Pediatrics

**Research Project:** Complications Associated with IM Ketamine Premedication for Measurement of Intraocular Pressure in Children: A Case-Control Study

#### 2008 OSLER NIH TL1 AWARDS

**Bernadette Grayson**, School of Medicine, PhD Neuroscience Graduate program

**Mentors:** Kevin Grove, PhD, Associate Scientist, Oregon National Primate Center and Kent Thornburg, PhD, Professor, Medicine, Cardiology

**Research Project:** Effects of maternal nutrition on placental inflammatory pathways in the human.

**Emily King**, School of Medicine, MD/MPH program

**Mentors:** Michelle Berlin, MD, MPH, Associate Professor, School of Medicine, Obstetrics and Gynecology and Terry Morgan, MD, PhD, Assistant Professor, School of Medicine, Pathology

**Research Project:** Retrospective analysis of the reproducibility of cervical biopsy diagnoses and added predictive value of immunostaining biopsies for p16 and Ki-67

**Jennifer Redig**, School of Medicine, PhD Molecular and Cellular Biochemistry Graduate program

**Mentor:** Cheryl Maslen, PhD, Professor, School of Medicine, Medicine, Cardiology

**Research Project:** A functional examination of a potential CRELD1-VEGF synergism and the genetic etiology of atrioventricular septal defects.

*Melissa Wei*, School of Medicine, MD/MPH program

**Mentors:** David Lieberman, MD, Professor and Chief, OHSU/VAMC, School of Medicine, Medicine, Gastroenterology and Edward Giovannucci, MD, ScD, MPH, Professor, Harvard University, Nutrition and Epidemiology

**Research Project:** Role of magnesium intake in colon cancer incidence.

#### 2013 OSLER NIH TL1 AWARDS (SHORT TERM)

*Vicky Chen*, School of Dentistry, DMD program

**Mentors:** Curtis Machida, PhD, Professor, School of Dentistry, Integrative Biosciences; J. Craig Baumgartner, DDS, PhD, Professor and Chair, School of Dentistry, Endodontics; and Karla Kent, PhD, Associate Professor, School of Dentistry, Integrative Biosciences

**Research Project:** Inflammatory Detection of latent and reactivated herpes viruses in symptomatic endodontic pathosis.

*Nicole Kearney*, School of Medicine, MD program

**Mentor:** Buddy Ullman, PhD, Professor, School of Medicine, Biochemistry and Molecular Biology and William Lambert, PhD, Associate Professor, School of Medicine, Public Health and Preventive Medicine

**Research Project:** Antibiotic resistance levels in E.coli as a proposed measure of screening water quality.

*Roxane Kotzin*, School of Dentistry, DMD program

**Mentors:** John Mitchell, PhD, Assistant Professor, School of Dentistry, Biomaterials and Biomechanics and Jack Ferracane, PhD, Professor and Chair, School of Dentistry, Biomaterials and Biomechanics

**Research Project:** Degree of conversion and hardness of light-cured injectable polymers.

*Nathaniel McCoy*, School of Medicine, MD program

**Mentor:** Joseph Quinn, MD, Assistant Professor, School of Medicine, Neurology

**Research Project:** Brain volume in patients at risk for the development Alzheimer's disease and its correlation with CSF levels of beta-amyloid.

*Edward Murphy*, School of Medicine, MD program

**Mentor:** David Ellison, MD, Professor and Chief, School of Medicine, Medicine, Nephrology and Hypertension

**Research Project:** A translational approach to Gitelman Syndrome.

**Brian Winters**, School of Medicine, MD program

**Mentor:** John Robert O'Rourke, MD, Assistant Professor, School of Medicine, Surgery, General Surgery

**Research Project:** The role of macrophage cell line THP-1 in inflammation induced insulin resistance in human hepatocyte cell line Hep2G.

#### 2007 OSLER NIH TL1 AWARDS

**Kristine Alexander**, School of Medicine, Molecular and Medical Genetics PhD program

**Mentor:** David Farrell, PhD, Associate Professor, School of Medicine, Pathology

**Research Project:** The role of gamma' fibrinogen in type II diabetes

**Alex Foster**, School of Medicine, MD, MPH program

**Mentor:** Christina Bethell, PhD, MBA, MPH, Associate Professor, School of Medicine, Pediatrics

**Research Project:** Elucidating the reasons for the lower prevalence of children with special health care needs in the Hispanic population

**Wilmon Grant**, School of Medicine, Neuroscience PhD program

**Mentor:** Daniel Marks, MD, MPH, Assistant Professor, School of Medicine, Pediatrics, Endocrinology

**Research Project:** The effects of maternal high fat diet on hepatic development in the non-human primate.

**Maria Nelson**, School of Medicine, MD program

**Mentor:** Craig Newgard, MD, MPH, Assistant Professor, School of Medicine, Emergency Medicine, Public Health and Preventive Medicine and Terri Schmidt, MD, Professor and Chair, Emergency Medicine

**Research Project:** The use of opt-out bracelets in resuscitation research

#### 2007 OSLER NIH TL1 AWARDS (SHORT TERM)

**Shivali Agnani**, School of Medicine, MD program

**Mentor:** James Rosenbaum, MD, Professor, School of Medicine, Medicine, Ophthalmology and Cell Biology, Arthritis and Rheumatic Diseases

**Research Project:** Inflammatory mediators of NOD2 involved in uveitis

**Natasha Fewkes**, School of Medicine, MD program

**Mentor:** Daniel Marks, MD, MPH, Assistant Professor, School of Medicine, Pediatrics, Endocrinology

**Research Project:** The impact of maternal nutrition on fetal inflammation during lactation

**Evelyn Ford**, School of Medicine, MD program

**Mentor:** Leonardo Pereira, MD, Assistant Professor, School of Medicine, Obstetrics & Gynecology, Maternal Fetal Medicine

**Research Project:** Impact of HIV prevention strategies on HIV-related health outcomes in countries with current adult HIV/AIDS prevalence rates greater than 5%

**Laura Rickert**, School of Dentistry, DMD program

**Mentor:** Jack Ferracane, PhD, Professor and Chair, School of Dentistry Restorative Dentistry, Biomaterials and Biomechanics

**Research Project:** Evaluation of the effects of varying eugenol concentrations for a provisional zinc-oxide-eugenol restorative, on bond strength of resin-based restorative materials

**Craig Riley**, School of Medicine, MD program

**Mentor:** Tonya Palermo, PhD, Assistant Professor, School of Medicine, Anesthesiology and Peri-operative Medicine, Pediatric Anesthesia and Pain Management

**Research Project:** Effects of sleep on Anesthesia resident performance

**Richard McKinney**, School of Dentistry, DMD program

**Mentor:** John Mitchell, PhD, Assistant Professor, School of Dentistry, Restorative Dentistry, Biomaterials and Biomechanics

**Research Project:** Prevention of nickel ion leakage from NiTi orthodontic wires with an atomic layer deposition coating