Research!Louisville 2019 Winners

Master's Basic Science Graduate Student Award

2nd place:

Sean Raph

"KVß2 mediates vasodilation in response to redox changes of the NADH:NAD+ ratio." Mentor: Matthew Nystoriak.

2nd place:

Angeliki Lykoudi

"Overexpression of has-miR-186 induces anchorage-independent growth and chromosomal alterations in arsenic exposed human keratinocytes: A preliminary study" Mentor: J. Christopher States

1st place:

Jeffrey Warner

"Soluble epoxide hydrolase inhibition: a novel therapeutic strategy in alcoholic liver disease"

Mentor: Irina Kirpich

Doctoral Basic Science Graduate Student Award

3rd place:

Adrienne Bashau-Sprinkle

"Mechanistic insight for increased susceptibility to cisplatin nephrotoxicity with NHERF1

Mentor: Eleanor Lederer

2nd place:

Samantha Morrissey

"Tumor-derived exosomes polarize macrophages to upregulate PD-L1 through metabolic reprogramming in a pre-metastatic niche"

Mentor: Jun Yan

1st place:

Autumn LaPointe

"Increasing the production of capped alphaviral RNAs negatively impacts viral pathogenicity"

Mentor: Kevin Sokoloski

Engineering Student Award

3rd place:

Alexa Melvin

"A 3D Printed Microfluidic Manifold to Prepare Plasma from Whole Blood "Mentor: Nichola Garbett

2nd place:

Connor Centner

"Acoustofluidic Devices for Enhanced Intracellular Molecular Delivery" Mentor: Michael Menze

1st place:

Farnaz Minooei

"Synergistic Activity of Antiretroviral and Biologic Nanoparticles against HIV-1 Infection" Mentor: Jill Steinbach-Rankins

School of Dentistry Basic Science Student Award

2nd place:

Hetal Desai

Functionalizing nanoparticles with CafA protein to target BAR peptide for oral delivery applications.

Mentor: Jill Steinbach-Rankins

1st place:

Peter Thai

Molecular Mechanism of Latency and Substrate Specificity in Pappalysin-like Metallopeptidases

Mentor: Jan Potempa

School of Dentistry Clinical Science Student Award

2nd place:

Christopher Rollins

Local oral anesthesia in emergency medicine: an inter-professional approach to assessing knowledge and strengthening skills in medical students and residents.

Mentor: Martin Huecker

1st place:

Rohit Vadlamani

Application of Machine Learning Technologies for Detection of Dental Caries in Intraoral Digital Images: In vitro Study.

Mentor: William Scarfe

Rhonda A. Hoffman Medical Student Award

2nd place:

Brooke Barrow

Design and Evaluation of a 3D Printed Multifunctional Surgical Device for Earth and Space-Based Applications.

Mentor: Thomas Roussel

2nd place:

Gene Porter

Maximizing human islet yield through pancreas donor selection

Mentor: Balamurugan Appakalai

2nd place:

Gordon Whitt

Knockdown of HNRNPA2B1 restores Tamoxifen's and Fulvestrant's inhibition of cell proliferation in Endocrine-Resistant Breast Cancer Cells. Mentor: Carolyn M. Klinge

1st place:

Ankur Patel

ZEB mRNA Expression is Affected by Long Non-coding RNA ZFAS1 Mentor: Susan Galandiuk

Postdoctoral Fellow Award

2nd place:

Josiah Hardesty

Genetic ablation of Fpr2 in mice increased susceptibility to alcohol-mediated liver injury due to enhanced inflammation and impaired antimicrobial defense

Mentor: Irina Kirpich

1st place:

Banrida Wahlang

Hepatic injury caused by the environmental toxicant vinyl chloride is sex-dependent

Mentor: Matthew Cave

Research Associate Award

2nd place:

Mayukh Banerjee

Arsenite can displace zinc from the zinc finger domains of alternative splicing regulator ZRANB2

Mentor: J. Christopher States

1st place:

Rodolfo Garza Morales

A DNA vaccine encoding SA-4-1BBL fused to HPV-16 E7 antigen has prophylactic and therapeutic efficacy in a cervical cancer mouse model Mentor: Jorge Gomez-Gutierrez

Research Staff Award

Winner:

Parag Shah

Ubiquilin proteins are novel tumor suppressors in breast cancer.

Mentor: Alex Vega

School of Medicine Medical Resident Award

Winner

Samarpit Rai

Trends in Utilization of Neoadjuvant Chemotherapy for Locally Advanced Upper Tract Urothelial Carcinoma: an Analysis of the National Cancer Database

Mentor: Ahmed Haddad

School of Medicine Clinical Research Fellow Award

Winner

M. Brittany Woodall

Improving Family Resources with Children Newly Diagnosed with Autism Spectrum Disorder.

Mentor: Jeanie Hammond

Public Health & Information Sciences

Master's Student Award

Meredith Cahill

The association between polycystic ovarian syndrome and the probability of conception in women undergoing fertility counseling.

Mentor: Kira Taylor

Doctoral Student Award

Victory Osezua

Experiences of social inclusion and exclusion among refugee youths from the African Great Lakes Region: A Constructivist Grounded Theory Study Mentor: Lesley Harris

Basic Research in Public Health Award

Yiqun Mo

The role of miR-21 in nickel nanoparticles - induced lung injury and fibrosis Mentor: Qunwei Zhang

Research & Practice in Public Health Award

Jack Pfeiffer

Coal fly ash, aluminum, and short-term memory among children 6-14 years old Mentors: Lonnie Sears and Kristina Zierold

Nursing Graduate Student

Winner

Susan Winebrenner

Exploring scan-related anxiety in pancreatic cancer: a qualitative study. Mentor: Robert Martin

Pharm D Award

Winner:

Bailey Bolten

HIV pre-exposure prophylaxis (PrEP): clinical experience at the University of Louisville 550 Clinic.

Mentor: Andrea Reyes Vega

Faculty Award in Basic Science

Winner

Ming Song

Dietary Fructose Induces Intestinal Oxygenation Likely Contributing to Gut Microbiota Dysbiosis

Faculty Award in Clinical Science

Winner:

Ruchita Agrawal

Measuring the effectiveness of Benzodiazepine prescriptions control in community setting using KASPER

Ruth Greenberg Award for Excellence in Medical Education Research Medical Student

3rd place:

Audrey Summers

The humanities side of anatomy lab: reflecting on and creating works of art

Mentor: Jennifer Brueckner-Collins

2nd place:

Mohammed Nuru

'Our First Patients': Reflecting on Death and Dying. A Novel Approach to Integrating Humanities into Clinical Anatomy Curriculum using Music & Narrative Medicine.

Mentor: Jennifer Brueckner Collins

1st place:

Michael Eizyk

My Brother's and Sister's Keeper: A Case for Peer Support Among M3 and M4 Medical

Students

Mentor: Pradip Patel

Ruth Greenberg Award for Excellence in Medical Education Research

3rd place:

Barbara Head

Does faculty training and development improve skills and competencies that lead to interprofessional educational programs in palliative care? he iPEX Program

2nd place:

Pascale Alard

Using IF-AT strategy in the dental immunology curriculum has a beneficial impact on performance and long term retrieval

1st place:

Emily Noonan

Engaging people with intellectual/developmental disabilities to improve medical student attitudes: The National Curriculum Initiative in Developmental Medicine at ULSOM

1st place:

Ryan Combs

Gender Minority Patients in Standardized Patient Encounters for Health Professionals

Louisville Chapter-Women in Medicine and Science

3rd place

Lilibeth Lanceta

Oncolytic Virotherapy for the treatment of ER+ palbociclib-resistant breast cancer Mentor: Yoannis Imbert-Fernandez

2nd place:

Smita Ghare

Tributyrin attenuates alcohol-induced chemokine up-regulation via epigenetic mechanisms - Relevance to hepatic inflammation and Injury in ALD Mentor: Shirish Barve

1st place:

Nadiia Lypova

PFKFB3 as a compensatory survival mechanism in NSCLCs in response to EGFR inhibition

Excellence in Health Disparities Research Award

3rd place:

Brittney Corniel

Improving Patient Satisfaction with Group Prenatal Care: An Integrative Review

2nd place:

Ariel Washington

Knowledge and attitudes related to accessing cervical cancer preventative services among African American Women in West Louisville

Mentor: Scott LaJoie

1st place:

Ryan Combs

Gender Minority Patients in Standardized Patient Encounters for Health Professionals.

Excellence in Quality Improvement in Patient Care

3rd place:

Courtney Eaves

The creation of a dashboard within the electronic medical record to provide quality metrics to psychiatric residents and assist with evaluating patient length of stay in Emergency Psychiatric Services

2nd place:

Khalda Ibrahim

Improving Communication About New Medications Prior to Discharge: A Project of the University of Louisville Hospital Resident Quality and Safety Leadership Council, 2018–2019

Mentor: Hugh Shoff

1st place:

Jiapeng Huang

A wearable sensor system to improve infection control among healthcare providers

Prodigy Award for High School Translational Research

2nd Place:

Maxwell Martin

Automation of DNA-ligand MD simulations with free energy calculations for enrichment of high affinity ligands in virtual screening

Mentor: John Trent

1st Place:

Bhavana Pavuluri

Understanding the Impact of PSAT1 on the ß-catenin Transactivation in EGFR-mutant PC9 Lung Cancer Cells

Mentor: Brian Clem

NCI Cancer Education Program Norbert J. Burzynski Award Undergraduate Student Category

3rd place:

Destine Ede

A Potential Novel Treatment for Neurofibromatosis Type 1 via RAS Inhibition Mentor: Geoffrey Clark

2nd place:

Kate Tarvestad

Low-Level Chronic Arsenic Exposure and its Effect on the ErbB Family Receptor Tyrosine Kinases.

Mentor: Brian Ceresa

1st place:

Grace Lian

Investigating molecules that confer sensitivity to AS1411 in lung adenocarcinoma cells Mentor: Paula Bates

NCI Cancer Education Program Norbert J. Burzynski Award Professional Student Category

3rd place:

Daniel Hodge

The effects of arylamine N-acetyltransferase 1 on tumor immune response Mentor: David Hein

2nd place:

James Burton

Effect of Long Non-Coding RNA ZFAS1 on Epithelial-To-Mesenchymal Transition Protein Expression in Colorectal Cancer Cell Lines

Mentor: Susan Galandiuk

1st place:

Ankur Patel

ZEB mRNA Expression is Affected by Long Non-coding RNA ZFAS1 Mentor: Susan Galandiuk