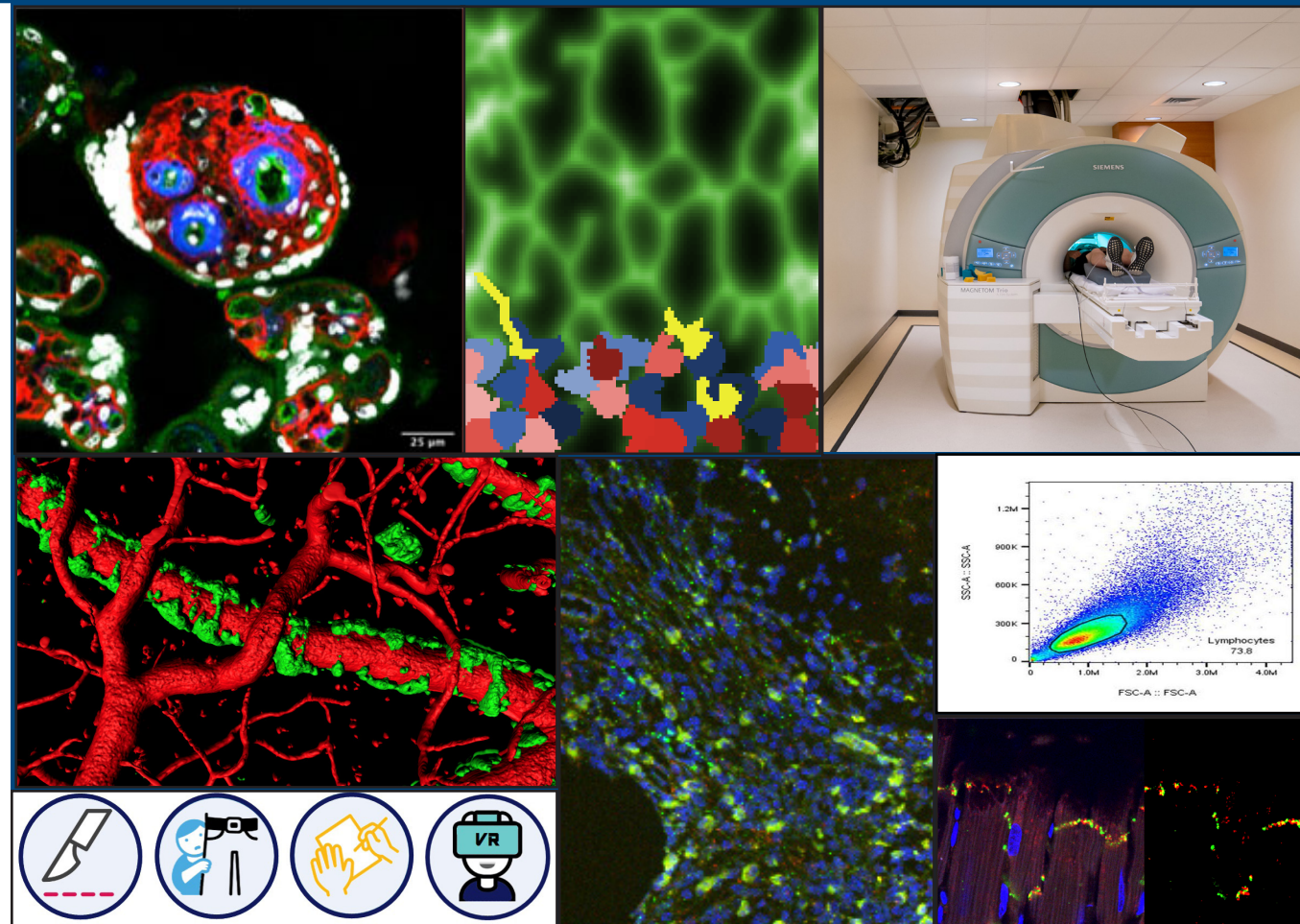


Poster	Student	Mentor	Research Project
23	Ashley Nyitray	Susan Campbell, PhD Harald Sontheimer, PhD	Characterization of Peritumoral Hyperexcitability in Adult and Pediatric Glioma: The Role of KCC2
24	Stephen Owen	Warren K. Bickel, PhD Jeff Stein, PhD Jennifer Vaughn, MD, MPH	Does Delay Discounting Predict Smoking Cessation in those Diagnosed with Head and Neck Cancer?
25	Hannah Palmerton+	Gary Simonds, MD	The Effect of Various OR Noise on Fine Motor Skills, Cognition, and Mood
26	Dan Park	John W. Mann, MD	Efficacy of an Intra-Operative Marcaine Adductor Canal Block during Total Knee Arthroplasty
27	Jay Patel	Farrell Adkins, MD	Does Repeat Tissue Compression by Robotic Stapling Devices Increase Colonic Anastomotic Leak Rates?
28	Harsh Patolia*	John Chappell, MS, PhD	Agent-Based Model Simulates Pericyte Migration and Recruitment to the Angiogenic Front in Response to PDGF-B Signaling by Sprouting Endothelium
29	Steve Siyuan Qian	Steven Poelzing, PhD Mark Joseph, MD	Multi-Parametric Predictors of Post-Operative Atrial Fibrillation
30	Mustafa Rasheed*	Kenneth Oestreich, PhD	The Role of the Ikaros Zinc Finger Factor Eos in TH2 Cell Differentiation
31	Mercedes Robinson*	Pearl Chiu, PhD	Gender Differences in Reward and Punishment Processing Within Depression
32	Jean Sabile*	Samy Lamouille, PhD	Targeting Cx43 in Colon Cancer Stem Cells
33	Simran Sandhu	Kenneth Oestreich, PhD	Evaluating Cooperative Roles for STAT3 and Aiolos in Lymphocyte Mimicry Associated with Metastatic Disease
34	Brian Saway+	Terri-Ann Wattsman, MD	Mindfulness in the OR
35	Don Scarboro	David Sane, MD	Predictors of Subsequent Hospital Encounters in Patients with Takotsubo Cardiomyopathy
36	Farah Shah+	Zhi Sheng, PhD	PIK3CB and Connexin-43 Inhibition Sensitizes Glioblastoma Cells to Temozolomide
37	Mira Tanenbaum	James W. Smyth, PhD	Targeting the Integrated Stress Response to Prevent Pathological Cardiac Hypertrophy
38	Jordan Taylor	James W. Smyth, PhD	Investigating Pathogenic Manipulation of Cellular Junctions to Facilitate Viral Spread
39	Albert Truong	Robert L. Trestman, PhD, MD	Adaption and Effectiveness of START NOW in the Treatment of Opioid Addicted Individuals Enrolled in Outpatient Based Opioid Treatment
40	Lena Turkheimer	Fidel Valea, MD	Barriers to Breastfeeding in Opiate Sustained Mothers and the Effects of Breastfeeding on NAS Symptom Severity, Infant Pharmacologic Use, and Length of Hospital Stay
41	Benjamin Walker+	Mark Hamill, MD	Effects of Interdisciplinary Education Regarding Potentially Inappropriate Medication Use in Geriatric Fall Patients
42	Tyler Willson	Mikhail Koffarnus, PhD	Brain Valuation Networks in Stimulant Users: Using fMRI to Further Understand Sexual HIV-Risk Behavior
43	Abigail Winn	Zhi Sheng, PhD	Activation of PI3K in Glioblastoma Multiforme
44	Melika Zarei	Jonathan Carmouche, MD Maxine Lee, MD Pamela Zollinger, MD	The Ability of Visual Evoked Potentials (VEPs) Obtained During Spine Surgery to Predict Postoperative Visual Changes

*Denotes receiving a Letter of Distinction for Research Scholarship +Denotes receiving a Letter of Distinction for Research Productivity



VTCSOM Medical Student Research Symposium 2020

Friday, March 27, 2020
12:00 to 5:15 p.m.

VTC
Virginia Tech Carilion
School of Medicine

VTCSOM Medical Student Research Symposium 2020

Program

12:00 to 1:00 p.m. ~ Poster Presentations, Odd Numbers (First Floor)

1:00 to 1:20 p.m. ~ Introduction and Research Mentor Award Presented to Devasmita Dev, MD (M203)

1:20 to 2:40 p.m. ~ Oral Presentations (M203)

Vascular Remodeling in Preeclampsia:

Smooth Muscle and Collagen Content in Placental Vessels

Anisha Chada (Mentors: John Chappell, PhD and Allison Durica, MD)

Soluble Amyloid-Beta Oligomers Trigger Disruption of the Astrocyte-Vascular Interface

Christopher Liao (Mentors: Ian Kimbrough, PhD and Harald Sontheimer, PhD)

Effect of Myocardial Infarction on Sodium Channel Organization

Tom Liu (Mentor: Robert Gourdie, PhD)

The Influence of Anxiety on Outcomes in Pediatric Surgery

Lisa Crisalli (Mentors: Shawn D. Safford, MD, MAS and Sarah Parker, PhD)

2:40 to 3:30 p.m. ~ Poster Presentations, Even Numbers (First Floor)

3:30 to 4:50 p.m. ~ Oral Presentations (M203)

Gender Differences in Reward and Punishment Processing Within Depression

Mercedes Robinson (Mentor: Pearl Chiu, PhD)

Agent-Based Model Simulates Pericyte Migration and Recruitment to the Angiogenic Front in Response to PDGF-B Signaling by Sprouting Endothelium

Harsh Patolia (Mentor: John Chappell, PhD)

The Role of the Ikaros Zinc Finger Factor Eos in TH2 Cell Differentiation

Mustafa Rasheed (Mentor: Kenneth Oestreich, PhD)

Targeting Cx43 in Colon Cancer Stem Cells

Jean Sabile (Mentor: Samy Lamouille, PhD)

4:50 to 5:15 p.m. ~ Student Awards (M203)

Cover images represent the research of Research Scholar Letter of Distinction recipients. Clockwise from upper left: Anisha Chada, Harsh Patolia, Mercedes Robinson, Mustafa Rasheed, Tom Liu, Jean Sabile, Lisa Crisalli, and Christopher Liao

Poster	Student	Mentor	Research Project
1	Malek Bouzaher+	John Chappell, MS, PhD	Pericyte Coverage and Microvessel Caliber in Normal and Pre-eclamptic Pregnancies
2	Anisha Chada*	John Chappell, MS, PhD Allison Durica, MD	Vascular Remodeling in Preeclampsia: Smooth Muscle and Collagen Content in Placental Vessels
3	Judy Chen	Andre Muelenaer, MD, MS John Bird, MD	Clinical Validation of an Affordable, Reusable Novel EKG Monitor for Children in Low-Resource Settings
4	Lisa Crisalli*	Shawn D. Safford, MD, MAS Sarah Parker, PhD	The Influence of Anxiety on Outcomes in Pediatric Surgery
5	Lindsey Dove	Sallie Beth Johnson, PhD, MPH Samantha M. Harden, PhD	Implementation of Diabetes Self-Management and Strength Training Programs for Older Adults: A Post-Trial Mixed Methods Study
6	Soleille Everest	Robin Queen, PhD Joseph Moskal, MD	Balance Deficits Remain More than One Year Following Total Hip Arthroplasty
7	Brendon Fusco+	Alexei Morozov, PhD	Artificial Potentiation of the Dorsomedial Prefrontal Cortex to Basolateral Amygdala Pathway
8	Susan Giampalmo	John Burton, MD	Opioid Use Disorder Patients in an Emergency Department Buprenorphine Program with Referral to Outpatient Therapy
9	Adam Goode	Thomas K. Miller, MD Joseph T. Moskal, MD Trevor M. Owen, MD	Use of Observation Status Versus Readmission in Elective Total Knee and Hip Arthroplasty Returns to Hospital: A Single-Institution Perspective
10	Jeffrey Henry	Stephen LaConte, PhD	The Effects of Ketosis on fMRI
11	Nicholas Homsy	Michael Wolfe, MD Benjamin R. Coobs, MD	The Effect of Orthopaedic Referral on Decision for Weight Loss Management
12	Caleb Hubbard	Martha Ann Bell, PhD	Mild-to-Moderate Hearing Loss Evaluated Through EEG Coherence
13	Darlon Jan	James W. Smyth, PhD Leslie LaConte, PhD	Investigations into Adenovirus Cardiotropism
14	Awaiz Khan	Edmundo Rubio, MD	The Effect of Hypertonic Saline on Mucus Viscosity in the Mechanically Ventilated Patient
15	Margaret Kneifel	Carla Finkielstein, PhD Kurtis Moyer, MD	miRNAs as Potential Biomarkers for the Identification of Night-Shift Workers at Risk of Developing Breast Cancer
16	Christopher Liao*	Ian Kimbrough, PhD Harald Sontheimer, PhD	Soluble Amyloid-Beta Oligomers Trigger Disruption of the Astrocyte-Vascular Interface
17	Tom Liu*+	Robert Gourdie, PhD	Effect of Myocardial Infarction on Sodium Channel Organization
18	Rosemary Mallonee	Sarah Parker, PhD Shawn Safford, MD, MAS	Nighttime, Day-Of-Week, and Month Influence Operative Duration and Turnover Time: A Linear Mixed Model Analysis of 609 Colectomies
19	Justine McGiboney	Frank Biscardi, MD Bradley Icard, DO Anthony Loschner, MD	Outcomes with Third-Line Vasopressors on In-Hospital Mortality in Septic Shock
20	Sanaz Monjazez	Cassandra Mierisch, MD	Perioperative Opioid Administration and Postoperative Opioid Consumption: A Retrospective Study
21	Sol Moon	Kenneth Oestreich, PhD	The Cooperative Roles of Aiolos and STAT3 in Th17 Differentiation
22	Robert Nicholson+	Damon Kuehl, MD	Utilization of Referral to a Prescription Exercise Program to Reduce Pain and Improve Function Following Discharge from the Emergency Department

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