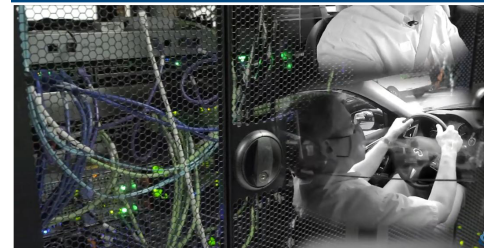
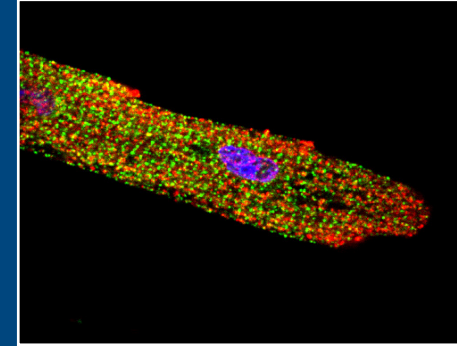
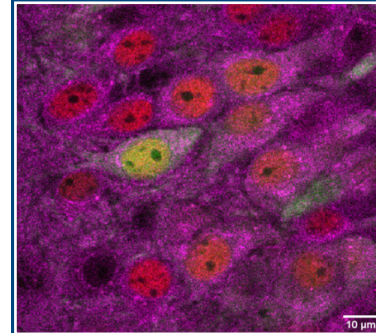
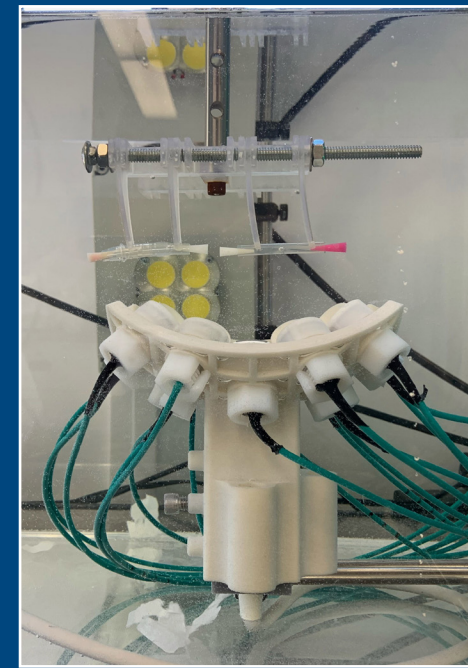
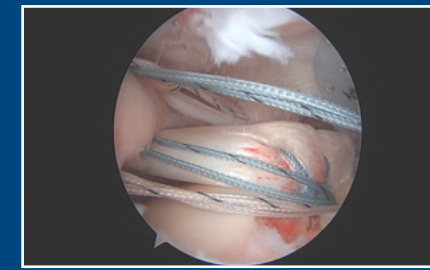
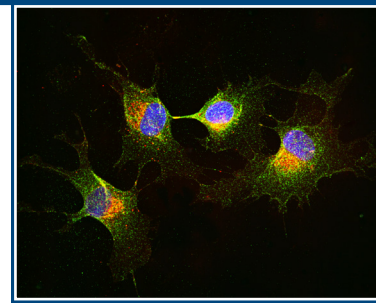


Poster	Student	Mentor(s)	Research Project
26	Dan Griffin	Cassandra Mierisch, MD	Using Mechanical Turk to Assess Trends in Surgical Patient Education
27	Jacob Hartman-Kenzler+	Sarah Parker, PhD Shawn Safford, MD	Intelligent Virtual Coach for Self-Training Manual Skills in Laparoscopy
28	Morgan Julian	John Chappell, PhD	Von Hippel-Lindau Syndrome: Characterization of a Potentially Novel VEGF-A Isoform and Elucidation of Molecular and Vascular Mechanisms of Observed Phenotypic Changes
29	Rebecca King	Michael Fox, PhD	Analysis of Retinogeniculate Synapses in Mouse Models of Glaucoma
5	Dinesh Lal*	Shannon Farris, PhD	Visualizing the Golgi Apparatus in Adult Hippocampal Dendrites <i>In Vivo</i>
30	Stephanie Masters	John Chappell, PhD Shawn Safford, MD	Pericyte Morphology and VEGF-A Receptor Localization in Mouse and Human Intestinal Vasculature
6	Kenan Michaels*	Jeff Stein, PhD Jennifer Vaughn, MD	Delay Discounting is Associated with Smoking Cessation following Diagnosis of Chronic Obstructive Pulmonary Disease
31	Mira Nicchita+	Charlotte Baker, PhD	Sickle Cell Disease in Southwest Virginia: An Analysis of Morbidity, Acute Care Utilization, and the Effects of Social Determinants of Health in a Mixed Rural/ Non-Rural Medically Underserved Community
7	Mike North*	James Smyth, PhD	Investigating the Pathogenesis of Mouse Adenovirus Type 3 Acute Viral Myocarditis
32	Quinn Owen	Devasmita Dev, MD John Robertson, VMD, PhD	Urine Spectroscopy Use in the Differentiation of Renal Cysts and Cancers
33	Michaela Pesce	Jason Pryor, MD Michole Pineda, MD Jacinda Hayes, MD	Developmental Outcomes of Opioid-Exposed Newborns Managed with Eat, Sleep, Console Method
34	William Reis	Steven Poelzing, PhD Carol Bernier, DO	The Surviving PEA in Roanoke (SPEAR) Study: A Prospective, Pre-Hospital Comparison of Normal Saline versus Half-Normal Saline, after Universal Calcium Chloride Administration, to Improve Outcomes in Pulseless Electrical Activity Patients
35	Claire Seo	Mark Joseph, MD	Validation of Preoperative STOPBANG Scores to Predict Pulmonary Hypertension in Cardiac Surgery
36	Vrinda Shukla	Cassandra Mierisch, MD	The Prevalence of Pain-Associated Biopsychosocial Factors and Correlation with Pain Intensity in mTurk Participants Reporting Shoulder Pain
37	Aryo Sorayya	Samy Lamouille, PhD	Determining the Role of Cx43 Interaction with Microtubules during the Epithelial Mesenchymal Transition
38	Lynn Stanwyck	Steven Poelzing, PhD	Blood Electrolyte Levels of Patients Presenting to the Emergency Room with Atrial Fibrillation
8	Natalia Sutherland*	Samy Lamouille, PhD	BMP-Induced Cx43 Interaction with β -Catenin in Glioma Stem Cells
39	Brandon Temel	Thomas Miller, MD	Prospective Evaluation of Exparel Adductor Canal Field Block for Pain Control after Anterior Cruciate Ligament Reconstruction
42	Dawn Ullmann	Brittany Howell, PhD	COVID-19 Pandemic Impacts on Social Networks and Women's Valuation of the Future
40	Parth Vaidya+	Vishak John, MD	Using Intraoperative Triamcinolone Acetonide Irrigation to Reduce Post-Operative Pain from Scleral Buckle Surgery
41	Caroline Woods	Anita Kablinger, MD	Using Delayed Discounting to Predict Readmission for Inpatient Psychiatric Patients
43	Hiba Zafar	Devasmita Dev, MD	Chronobiology of Resistant Hypertension: Effects of Bedtime Ingestion of Mineralocorticoid Receptor Antagonists

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



VTCSOM Medical Student Research Symposium 2022

Friday, March 25, 2022
Noon to 5:45 p.m.

VTC
Virginia Tech Carilion
School of Medicine

VTCSOM Medical Student Research Symposium 2022

Program

12:00 to 1:00 p.m. ~ Poster Presentations (R4-G101/G102 and R2-Atrium)

1:10 to 1:30 p.m.~ Introduction and Research Mentor Award Presented to
Samy Lamouille, PhD (M203)

1:30 to 2:30 p.m. ~ Oral Presentations (M203)

Use of Intraoperative Ketorolac in Outpatient Breast Surgery: A Double-Blinded Prospective Randomized Controlled Trial

Joowon Choi (Mentor: James Thompson, MD)

Visualizing the Golgi Apparatus in Adult Hippocampal Dendrites In Vivo

Dinesh Lal (Mentor: Shannon Farris, PhD)

A Prospective Clinical Trial Comparing General Anesthesia with Interscalene Nerve Block vs. TIVA-P Sedation with Interscalene Nerve Block in Outpatient Shoulder Arthroscopies

Kory Cablay (Mentor: John Tuttle, MD)

2:40 to 3:40 p.m. ~ Poster Presentations (R4-G101/G102 and R2-Atrium)

3:50 to 5:10 p.m.~ Oral Presentations (M203)

Investigating the Pathogenesis of Mouse Adenovirus Type 3 Acute Viral Myocarditis

Michael North (Mentor: James Smyth, PhD)

Delay Discounting is Associated with Smoking Cessation following Diagnosis of Chronic Obstructive Pulmonary Disease

Kenan Michaels (Mentor: Jeff Stein, PhD)

BMP Induced Cx43 Interaction with β - Catenin in Glioma Stem Cells

Natalia Sutherland (Mentor: Samy Lamouille, PhD)

Modeled WALANT Does Not Impair Driving Fitness: An Experimental On-Road Noninferiority Study

Ariel Badger (Mentor: Peter Apel, MD, PhD)

5:10 to 5:45 p.m.~ Awards and Closing (M203)

Cover images represent the research of Research Scholar Letter of Distinction recipients. Clockwise from upper left: Natalia Sutherland, Kory Cablay, Chris Childers, Kenan Michaels, Joowon Choi, Ariel Badger, Dinesh Lal, and (center) Michael North

Poster	Student	Mentor(s)	Research Project
9	Yazan Alshawkani+	Peter Apel, MD, PhD	An Ultrashort Video to Educate Healthcare Providers on Fingertip Injury Repair
10	Alex Atwood	Stephanie DeLuca, PhD Robin Queen, PhD	Evaluating Mainstream Activity Trackers as Accurate Measurement Tools and Effective Influencers of Physical Activity in School-Aged Children with and without Physical Disabilities
1	Ariel Badger**	Peter Apel, MD, PhD	Modeled WALANT Does Not Impair Driving Fitness: An Experimental On-Road Noninferiority Study
11	Mallory Blackwood+	Mark Witcher, MD, PhD	An Investigation of Transcranial Magnetic Stimulation (TMS) for Trigeminal Neuralgia (TGN)
12	Patrick Bonson	Andrew Binks PhD Renée LeClair, PhD Kristin Machac, PhD John Epling, MD	Using Design Thinking to Effectively Integrate Student Perspective Into Curricular Design
13	Harrison Brookeman	John McNamara, MPA, MS, DC Carol Bernier, DO	Evaluation of Dyspnea through Education and Implementation of the Bedside Lung Ultrasound in Emergency (BLUE) Protocol by Roanoke Valley Advanced Life Support Paramedics
14	Andrew Brown	Thomas Miller, MD	Opioid Consumption in Patients Undergoing Arthroscopic Rotator Cuff Repair Using Interscalene Brachial Plexus Blocks with and without Liposomal Bupivacaine: A Randomized Controlled Trial
2	Kory Cablay*	John Tuttle, MD	A Prospective Clinical Trial Comparing General Anesthesia with Interscalene Nerve Block vs. TIVA-P Sedation with Interscalene Nerve Block in Outpatient Shoulder Arthroscopies
15	Andrew Chang	Bryan Collier, DO	Early Predictors of Post Discharge Mortality to Guide Palliative Care Decisions
16	Amy Chen	Yuchin Albert Pan, PhD	Effects of Acute Microglia Inhibition on the Development of the Zebrafish Stress Pathway
3	Chris Childers**	Eli Vlasisavljevich, PhD	Focused Ultrasound Biofilm Ablation: Investigation of Histotripsy and Particle-Mediated Histotripsy for the Treatment of Catheter-Based Medical Device Biofilms
4	Joowon Choi*	James Thompson, MD	Use of Intraoperative Ketorolac in Outpatient Breast Surgery: A Double-Blinded Prospective Randomized Controlled Trial
17	Kritika Chugh	Zhi Sheng, PhD	Understanding Kinases Importance in GBM Survival
18	Yash Desai	Katie Bower, MD Cassandra Mierisch, MD	Emergency General Surgery Procedure as a Risk Factor for Long-Term Opioid Use Habit Compared to Elective General Surgery Procedure
19	Rocco DiSanto	Robert Gourdie, PhD Mark Van Dyke, PhD	Efficiency of Technology Transfer Assessed through NIH and Patent Data
20	Yazdi Doshi	Zhi Sheng, PhD	The Role of PI3K Catalytic Isoforms on the Survival of Pediatric Glioblastoma
21	Anthony Fisher	Thomas Miller, MD	Validation of an Interventional Based Pain Scale and Comparison with the Numerical Rating Scale (NRS) in a Postoperative Setting in Correlation with Patients' Pain Management Needs
22	Marc Fromherz	Zhi Sheng, PhD	Determining the Efficacy of a PI3KCB Subunit Inhibitor in Combination with Temozolomide (TMZ) on TMZ Resistance in Human Glioblastoma Cell Lines
23	Jane Gay	Mariana Phillips, MD	Utility of Single-Dose Oral Antibiotic Prophylaxis in Prevention of Surgical Site Infection in Dermatologic Surgery
24	Robyn Goodrich	Jaclyn Nunziato, MS, MD	Too Much of a Good Thing? The Impact of Initial Prescription Size in Post-Cesarean Section Pain Management
25	Alexandra Goslow	Warren Bickel, PhD	Buprenorphine Misuse in Opioid Use Disorders: Subgroups, Motivations, and Opioid Demand

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