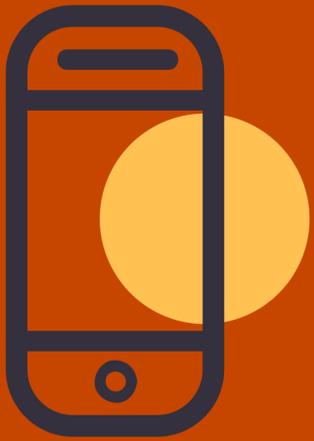


The Graduate Student Assembly Presents:



# THE 37TH ANNUAL RESEARCH SYMPOSIUM AND EXPOSITION

## "RESEARCH CARRIES ON!" MARCH 22-24



Join us in learning about the research work being conducted by our peers across campus!

### PRESENTATION SCHEDULE

**MARCH 22ND (M) 3-7 PM**

ROOM 1: ZOOM ID 894 1701 4771 PASSCODE 3222101

ROOM 2: ZOOM ID 811 358 2759 PASSCODE 32174

**MARCH 23RD (T) 3-7 PM**

ROOM 1: ZOOM ID 830 5117 9262 PASSCODE 3222101

ROOM 2: ZOOM ID 811 358 2759 PASSCODE 32174

**MARCH 24TH (W) 3-5 PM**

ROOM 1: ZOOM ID 831 1550 4798 PASSCODE 3222102

ROOM 2: ZOOM ID 811 358 2759 PASSCODE 32174

### KEYNOTE EVENT WEDNESDAY

**MARCH 24TH (W) AT 5 PM**

REGISTER FOR THE ZOOM WEBINAR

**SPEAKERS:**

ALEX HAAGAARD

LIZ JACKSON

LYDIA X.Z. BROWN

CONTACT [GSARS-G@VT.EDU](mailto:GSARS-G@VT.EDU) WITH  
ANY QUESTIONS

	Monday		Tuesday		Wednesday	
	Room 1	Room 2	Room 1	Room 2	Room 1	Room 2
3:00	<b>Sara Cloft</b>	<b>Demisha Porter</b>	<b>Tristan Stoyanof</b>	<b>Khan Mohammad Imran</b>	<b>Annah Cash</b>	<b>Tyler McFayden</b>
3:05	Using cell marker genes to understand the pathology associated with Runting Stunting Syndrome in young meat-type chickens	Analysis of Substrate-dependent Migration of Neuroblasts in Perinatal Piglets	Studying Streptococcus suis via Multiple Sequencing Approaches	Irreversible pores by electric field in pancreatic cancer cells stimulates a tumor destroying inflammation	Prospective Impact of COVID-19 on Mental Health Functioning in Adolescents with and without ADHD	COVID-19 Remote Learning Experiences of Youth with Neurodevelopmental Disorders in Rural Appalachia
3:10						
3:15	<b>Amin Abbasi Baghbadorani</b>		<b>Emily Burns</b>			
3:20	Radar imaging of fractures and voids behind the walls of an underground mine	<b>Hannah Ivester</b>	Autoethnography as Method: Articulating My Disabled Teaching Identity	<b>William Singer</b>		
3:25		Antiviral compound Remdesivir as a potential treatment for COVID19				Predicting a Perfect Plant Protein: A Quantitative Genetics Approach in Soybean
3:30	<b>Claire Murphy</b>		<b>Christina Chuong</b>	<b>Juselyn Tupik</b>	Roles of Tanzanian leaders and government to attract youth to engage in farming and agricultural entrepreneurship	
3:35	Seasonality drives the likelihood of isolating Listeria monocytogenes from field and water samples collected from Virginia produce farms		Protection against chikungunya virus via cytokine-expressing vaccines			
3:40		<b>Manish Singh</b>				
3:45	<b>Devin Burns</b>	Ripple-Type Control for Enhancing Resilience of Networked Physical Systems	<b>Rachel Padget</b>	(Cell) Death by Inflammasome: Uncovering mechanisms of host innate immune defense against the bacterial disease brucellosis	BREAK	BREAK
3:50	Predicting the Motion and Failure Of Composite Beams Due to Blast Loads Using a Least-Squares Method					
3:55						
4:00	BREAK	BREAK	BREAK	BREAK	<b>Delshad Shroff</b>	<b>Lauren Fritsch</b>
4:05					Understanding the Association between Spirituality and Mental	The Immune System in Traumatic Brain Injury: Friend or Foe?
4:10						
4:15		<b>Holly Morrison</b>	<b>Renata Carneiro</b>		<b>Tawmi Paradise</b>	<b>Sonal Sathe</b>
4:20		NIK in the Niche: Noncanonical NF-kB Signaling Pathway is Pertinent to Regulating Intestinal Stem Cell Niche	What motivates consumers to buy and consume edamame in the U.S.?		Parent-Child Narratives of Experience From Three Engineering	SNAP Participation and Current Food Resource Management Skills
4:25						
4:30		<b>Kellie King</b>		<b>Rachana Deven Somaiya</b>	<b>Gabriela Carrillo</b>	<b>Alexandra Kaloss</b>
4:35		A New Regulatory Small RNA VcrS is Crucial for Virulence in Brucella abortus		Highlighting novel mechanisms for circuit formation in the brain	Toxoplasma gondii: How a common parasite changes the brain	A "Stroke" of Brilliance: Inhibiting EphA4 Improves Blood Flow After
4:40	<b>Jeffrey Marano</b>		<b>Jessica Resor</b>			
4:45	Cross-Reactive Flavivirus Immunity Drives Reduction in Viral Fitness	<b>Cameron Komylo</b>	Something blue, something novel: Multi-method study on family group chats	<b>Maede Maftouni</b>		
4:50		Sign In and Stay a While: Choice Architecture and Users' Choice to Log Out			A Robust Ensemble-Deep Learning Model for COVID-19 Diagnosis based on an Integrated CT Scan Images Database	
4:55						
5:00	BREAK	BREAK	BREAK	BREAK	<b>Speaker and Awards (Webinar Registration Required)</b>	
5:05						
5:10						
5:15	<b>Esha Dwivedi</b>	<b>Sara Cathey</b>	<b>Dohgyu Hwang</b>	<b>Sarah Kuchinsky</b>		
5:20	Nudges and Influenza Vaccination Uptake	Experimental evidence that diversity stabilizes communities through asynchrony	Kirigami-Inspired Structures for Smart Adhesion	How much is enough? Determining the minimum infectious threshold for Usutu virus transmission between birds and biting Culex mosquitos		
5:25						
5:30		<b>Barath Udayasuryan</b>		<b>Nayara De Oliveira Faria</b>		
5:35		Microbes in the Tumor Microenvironment Impact Cancer Progression		How Long Can a Driver (Safely) Glance at an Augmented-Reality Head-Up Display?		
5:40	<b>Keaton Unroe</b>		<b>Margaret Nagai-Singer</b>			
5:45	Transcranial focused ultrasound provides antidepressant effects in a rodent model of depression	<b>Jackie Sereno</b>	A Cancer Conundrum: NLRX1 can suppress or promote breast cancer disease burden based on cell type.	<b>Mahnaz Ensafi</b>		
5:50		The Immunomodulatory Effects of Histripsy Ablation on Osteosarcoma Tumors in Murine Models			Configuring Building Information Models to Support Facility Management	
5:55						
6:00	BREAK	BREAK	BREAK	BREAK		
6:05						
6:10						
6:15		<b>Pallavi Rai</b>		<b>Zerin Khan</b>		
6:20	<b>Suragatika Paul</b>	Obesity affects alphavirus transmission and evolution.	<b>Courtney Swanson</b>	Characterizing and Optimizing an Injectable Hydrogel for Capturing Cancer Cells during Glioblastoma Treatment		
6:25	NAP1 mediated activation of TBK1 at the centrosome is necessary for cell division		Predictors of Parent Psychopathology During the COVID-19 Pandemic			
6:30		<b>Jing Ju</b>		<b>Sangeeta Sapkota</b>		
6:35		Peripheral immune cells regulate pre-existing pial collateral vessels in a murine model of stroke		Revealing hormonal regulation of blooming time with two contrasting apple cultivars		
6:40						
6:45	<b>Sadia Ahmed</b>	<b>Chloe Moore</b>	<b>Courtney Ross</b>	<b>Madeleine Bruce</b>		
6:50	Role of gut microorganisms on white matter development during infancy: from "normal" to "abnormal" and hopefully, "back!	Identifying patterns of multifaceted frog and toad biodiversity in the United States: Redundant or complementary?	Transforming the "Gloom and Doom" of the Sociology of Law Classroom with Contemplative Practices	Infant Attention and Maternal Education Influence Childhood Receptive Vocabulary Development		
6:55						