



COLLEGE OF
SCIENCE AND
MATHEMATICS

FESTIVAL OF RESEARCH



Friday, September 20

Neuroscience Engineering Collaboration (NEC) Building

- Research poster presentations
- Mini-symposia
- Pub science talks
- Science improv
- Advising sessions
- Food truck

Ohio Physiological Society
presentations September 20–21.

*Register presentations or talks
by September 6.*



wright.edu/researchfest

All verbal presentations are held in the NEC main Auditorium (Rm 101)

<u>First name</u>	<u>Last name</u>	<u>Time</u>	<u>Title</u>
Ashley	Julian	8:00 AM	Cover Crop Shifts Fungal Community Composition in Dredged Sediments
Michael	Friedman	8:15 AM	Light availability differentially influences induced defenses in white fringetree and black ash
Sara	Seibert	8:30 AM	Kinship confounds population structure in two species of Australian waterfowl
Leon	Katona	8:45 AM	Estimating photosynthesis of attached algal biofilms using Pulse Amplitude Modulated fluorometry
Krushangi	Shah	9:00 AM	The F-Box protein FBXL16 inhibits SCF-E3 ligase activity and upregulates ER α Signaling in breast Cancer
Brian	Stogsdill	9:15 AM	Possible Roles for Glycosylating Glyceroporins in Cold-acclimating Treefrog Erythrocytes
Andrew	Stacy	9:30 AM	TIP60 regulation of Δ Np63 α promotes cellular proliferation
Rebekah	Hutcherson	9:45 AM	ATR Kinase Inhibition Sensitizes Cells to the Anti-Cancer Drug Cisplatin and Enhances Mutagenesis
Xiu Huan	Yap	10:00 AM	Multi-label model for toxicity prediction
Rutuja	Mahajan	10:15 AM	Analyzing Public view towards Vaccination using Twitter
Hannah	Benston	10:30 AM	Terahertz Analytical Chemical Sensing of Expired Human Breath
Daniel	Tyree	10:45 AM	Terahertz Spectroscopic Molecular Sensor for Quantitative Analytical Gas Sensing
Ian	Holloway	11:00 AM	Supersonic Magnetohydrodynamic Flow Past Cones
Selvakumar	Jayaraman	11:15 AM	Insights into the Ligand Induced Distortion of Coordination Geometry in N-Heterocyclic Carbene Iron-bis(dithiolene) Adducts
Annabel Vivian	Almazan	11:30 AM	Human optic atrophy associated OPA1 gene induces mitochondrial dysfunction in yeast
Labib	Rouhana	12:00 PM	Basic research in flatworms full of stem cells
Sarah	Workman	12:20 PM	They protec, they attac, on invasive plants they snacc: colonization of invasive Amur honeysuckle (<i>Lonicera maackii</i>) by native c
Zofia	Gagnon	12:40 PM	Nanoparticles in Your Life

Michele	Miller	1:00 PM	#Haztag: Wright State University on using crowd sourcing for CBRNe
Mackenzie	Rich	1:30 PM	Spatiotemporal Interactions Within a Northern Wisconsin Carnivore Community
Baxter	Foskuhl	1:45 PM	Implication of nutrient concentrations related to a harmful algal bloom (HAB) and microcystin formation in Caesar Creek Lake
Safia	Janjua	2:00 PM	DNA CAPTURE: CHALLENGES AND UTILITY FOR NON-INVASIVE SAMPLES
Adam	Reed	2:15 PM	Effects of Agrilus planipennis and Lonicera maackii on fungal driven decomposition in Midwestern forests
Jaclyn	Manker	2:30 PM	North American Freshwater Snails as Water Level Indicators in Crystal Lake, Ohio
Graduate Student Assembly (moderator)	Sara Seibert	2:50 PM	Applying to graduate school and having a successful graduate career

<u>First name</u>	<u>Last name</u>	<u>Poster Session</u>	<u>Time</u>	<u>NEC location</u>	<u>Title</u>
Valerie	Benedict	8-10	8:00	2a	CRISPR/ Cas 9 editing of hs 1.2 enhancer impact of cyclin D1 expression in U266 cells
Jacen	Urbaniak	8-10	9:00	2b	“Preliminary Results of Plant Monitoring with Terahertz Imaging”
Teresa	Garrett	8-10	8:00	2c	Cell typing of mouse spinal motoneurons using immunohistochemistry markers
Ryan	Rakoczy	8-10	9:00	2d	Oxygen Sensing in the Carotid Body: The Thermal Micro-domain Model
Brian	Blair	8-10	8:00	2e	Electromagnetic Simulations of THz Frequency Hollow Helical Waveguides
Michael	Craig	8-10	9:00	2f	Differential MicroRNA Signatures in the Pathogenesis of Barrett’s Esophagus
Astha	Shakya	8-10	8:00	2g	ERK3 negatively regulates IL-6/STAT3 signaling via SOCS3 in cancer cells
Kristina	Steingass	8-10	9:00	2h	Analytical- and imaging-based methodologies for studying the uptake and transformation of silver nanoparticles in mitochondria
Trey	Singleton	8-10	8:00	2i	Bat Activity in the Wright State Campus Woods
Lea	Kelty	8-10	9:00	2j	Amur honeysuckle did not affect coarse woody debris decay
Lee	Raska	8-10	8:00	2k	Non-Nernstian Behavior of A Water Quality Probe Used In Caesar Creek Lake, Wilmington, Ohio
TAHIR	SULEHRIA	8-10	9:00	2l	Non-addiction Drug Combination to Treat Chronic Pain and to Try Eliminate Transition from Acute to Chronic Pain
John	Miller	8-10	8:00	3a	Calpain-calpastatin system in peripheral nerve myelination and demyelination
Mike	Castro	8-10	9:00	3b	Optimizing Rat Cardiomyocyte Contractility by Co-culturing with Murine M2 Macrophages & the addition of TGF- β , SOCS3, and IL-10
Nikhil	Reddy	8-10	8:00	3c	p63 Signatures in the Pathogenesis of Barrett’s Esophagus
RUJUTA	GADGIL	8-10	9:00	3d	Unstable Microsatellite DNA: Replication dependent DNA double strand breaks lead to highly mutagenic Break Induced replication
Lori	Mahoney	10-12	10:00	3e	Effects of Automation Level and Aid Accuracy on User Performance

Yasmeen	Samar	10-12	10:00	3g	Does long-term exposure to <i>Pseudogymnoascus destructans</i> alter the reproductive timing of big brown bats?
William	Robinson	10-12	11:00	3h	Development of an Tetrathiafulvalene fused N-Heterocyclic compounds
Jessica	Wiese	10-12	10:00	3i	Determination of benzotriazole and analog compounds by liquid chromatography-mass spectrometry in surface runoff water samples f
Amjad	Aljagthmi	10-12	11:00	3j	$\Delta Np63\alpha$ suppresses cell invasion by modulating Rac1 activity
Joshua	Harris	10-12	10:00	3k	Contrasting Kv2.1 channel expression level changes between disease-resistant and disease-vulnerable SOD1-G93A motoneurons in ALS
Sabrina	Metzger	10-12	11:00	3l	The central role of subthreshold currents in disorders of muscle excitability
Kai	Muran	10-12	10:00	3m	Detection of acetaminophen, caffeine and ascorbic acid by electrochemistry
Marlee	Richardson	10-12	10:00	3m	Detection of acetaminophen, caffeine and ascorbic acid by electrochemistry
Haley	Curry	10-12	11:00	3n	Characterization of a conserved Transient Receptor Potential Channel required for spermatogenesis in <i>Schmidtea mediterranea</i>
Al Awal Mohammed	Jimah	10-12	10:00	3o	Decreasing adenovirus infection with Cell Permeable Peptides
Amanda	Myers	10-12	11:00	4a	Phosphatidic acid binds to ERK3 and stimulates phosphorylation of the ERK3 activation loop
Molly	Simonis	10-12	10:00	4b	Body Mass of Pregnant <i>Eptesicus fuscus</i> is Diverging with Long-term Exposure to <i>Pseudogymnoascus destructans</i>
Christina	Davis	10-12	11:00	4c	AFRL Participation in the International Genetically Engineered Machine (iGEM) Competition: Milestones and Accomplishments.
Christina	Davis	10-12	11:00	4d	Bacterial Genomic Integration for Human Performance
Shannon	Collins	10-12	10:00	4e	Effects of Temperature and Nutrient Concentrations on Water Column Ammonium Cycling in Artificial Lake Mesocosms
Praveen Kumar	Alla	10-12	11:00	4f	Developing Analytical Based Methodologies to Study the ADME of Nanoparticle Interactions in Red Blood Cells

Dante Andres	Villarreal Manrique	10-12	10:00	4g	Fossil Charcoal Analysis
Sarah	Clouse	10-12	11:00	4h	Cryoprotectant Accumulation During Cold Acclimation in Cope's Gray Tree Frog
Ashton	Shepard	10-12	11:00	4h	Cryoprotectant Accumulation During Cold Acclimation in Cope's Gray Tree Frog
Bethany	Dennis	10-12	10:00	4i	Seeing the World from Above: Uncovering the Neural Basis of Aerial Scene Recognition
Duc	Nguyen	10-12	11:00	4j	Methylglyoxal disrupts axonal initial segment (AIS) and neuronal network activity
Roselle Bea	Almazan	10-12	10:00	4k	Metabolic control of α -synuclein toxicity
Abdulrahman	Alkawar	1-3	13:00	2a	Insulin-like growth factor-1(IGF-1) impact p53 function in UVB-irradiated human keratinocytes and skin epidermis
Garrett	Reinhard	1-3	14:00	2b	Synthesis and Characterization of gold (I) ferrocenium complexes
Alexander	Hough	1-3	13:00	2c	Measuring and overcoming cognitive effort avoidance
Herbert	Colle	1-3	14:00	2d	Differences in False Recall using Auditory & Visual DRM Lists of Semantic(S), Phonological(P), & Hybrid S/P Words
Timothy	Dimidik	1-3	14:00	2d	Differences in False Recall using Auditory & Visual DRM Lists of Semantic(S), Phonological(P), & Hybrid S/P Words
Jessica	Myers	1-3	13:00	2e	The Role of Subthreshold Current during Repetitive Firing in Normal Muscle
Ryan	Elam	1-3	14:00	2f	The Effect of Zinc on the Epithelial Sodium Channel
Andrew	Stacy	1-3	13:00	2g	TIP60 upregulation of Δ Np63 α promotes cellular proliferation
Tara-Yesomi	Wenegieme	1-3	14:00	2h	Zinc Deficiency Drives Renal NF κ B Activation
Aston	Waite	1-3	14:00	2h	Zinc Deficiency Drives Renal NF κ B Activation
Jaylen	Hudson	1-3	13:00	2i	The effects of Btf and TRAP150 on Binding Partner Localization
Jeff	Ringiesn	1-3	14:00	2j	Functional Sites within the IHNV NonVirion Protein that Regulate Host Cellular Responses
Mike	McKean	1-3	13:00	2k	Cover Crop shifts Invertebrate Community Composition in Corn Fields Grown on Dredged Sediments
Taylor	Muterspaw	1-3	14:00	3a	The Formation of Prenucleation Clusters for Calcium Fluoride

ABDULLAH	ALTHAIBAN	1-3	13:00	3b	KRAS Pathway based Targeted Therapy Responses in Pancreatic Cancer
Harshal	Sawant	1-3	14:00	3c	Effects of Angiotensin II Type 1 A Receptor (AT1aR) on renal and urinary biomarkers of acute kidney injury in 2K1C mice model
Bahir	Al-Anbari	1-3	13:00	3d	Characterization of Proprioceptive Neuron Gene Expression After Peripheral Nerve Injury
Alexander	Nguyen	1-3	14:00	3e	Characterization of proprioceptive neuron gene expression after peripheral nerve injury
Akshay	Hira	1-3	13:00	3f	TIP60 REGULATION OF Δ Np63 α IS ASSOCIATED WITH CISPLATIN RESISTANCE
Mohamed	Mousa	1-3	14:00	3g	Differences between SK2 and SK3 currents in mouse spinal motoneurons: A simulation study
Donovan	Christman	1-3	13:00	3h	Kinesin Associated Protein 3 is required for spermatogenesis and somatic motile cilia function in planarians
Abdullah	Alatawi	1-3	14:00	3i	Generators of Alpha Oscillations

First name	Last name	Poster Session	Time	White Hall location	Title
Jeneane	Jaber	3-5	15:00	w1	Methylglyoxal disrupts the axon initial segment (AIS) and neuronal network activity
Abdullah	Alshudukhi	3-5	16:00	w2	Lipin-1 regulates Bnip3-mediated mitophagy in glycolytic muscle
Collin	Vinson	3-5	15:00	w3	The Effects of Dexamethasone on Diffuse Intrinsic Pontine Glioma Sensitivity Toward Panobinostat
Shreepa	Chauhan	3-5	16:00	w4	The role of the platelet activating factor-receptor in miR-149-mediated effects on lung cancer growth and treatment efficacy.
Alayna	Mellott	3-5	15:00	w5	Role of TRPM7 Channels in Immunotoxicity of Divalent Metal Cations
Hasan	Farid	3-5	16:00	w6	Fast-Blue vs. Cholera-Toxin B: Which Retrograde Tracer is Better for Spinal Motoneurons Labeling?
Cindel Lynn	Murta	3-5	15:00	w7	Zinc Deficiency Promotes Hypertension by Driving NFκB-Mediated Renal Na ⁺ Retention
Dylan	Schindele	3-5	15:00	w7	Zinc Deficiency Promotes Hypertension by Driving NFκB-Mediated Renal Na ⁺ Retention
Christopher	Waker	3-5	16:00	w8	Transketolase-like 1 inhibition as a therapeutic target for diffuse midline glioma
Sarah	Williams	3-5	15:00	w9	Trophoblast Giant Cell-Specific Gene Targeting
Melissa	Kaufman	3-5	16:00	w10	Prolonged Trophoblast-Specific Hif-1α: A new mouse model of early-onset preeclampsia
William	Cvammen	3-5	15:00	w11	Differential Nuclear Localization of SOX18 Variants in Transiently Transfected Epithelial Cells
Kirsten	Shaw	3-5	15:00	w13	Analyzing genetic enhancers of the ALS-linked gene FUS
Anirudh	Kedia	3-5	16:00	w14	Association of Mindfulness with Fatigue and Quality of life in Indian Commercial Pilots. A Pilot Study.
Danielle	Spanbauer	3-5	15:00	w15	Optimization of Lipid-Polymer Hybrid Nanoparticles for Cargo Delivery
Soham	Parikh	3-5	16:00	w16	Potential application of carbon nanotube-coated scaffolds in modifying wound healing capacity of keratinocytes
Nicholas	Zamora	3-5	15:00	w17	Experimental and Theoretical Aspects of THz Emission Spectroscopy

Christiana	Draper	3-5	16:00	w18	Hypoexcitability and Hyperexcitability in Sacral Motorneurons of SOD1G93A-High Mice: Disease versus Compensation
Sankhadip	Bhadra	3-5	15:00	w19	Enhanced expression of receptor tyrosine kinase Mer(MERTK) on SOCS3-treated polarized RAW264.7 anti-inflammatory M2c macrophages
Ishita	Haider	3-5	16:00	w20	Genome-wide discovery of human-gene enhancers of synucleinopathy
Jananie	Rockwood	3-5	15:00	w21	Consequences of TRPM7 kinase inactivation in murine macrophages
Daniel	Miranda	3-5	16:00	w22	Skeletal Muscle Excitation in Huntington's disease
Steve	Burke	3-5	15:00	w23	Development of an in vivo muscle force system to assess neuromuscular dysfunction
Kirsten	Denman	3-5	16:00	w24	Discovery of plateau potentials in myotonia congenita suggests a novel approach to therapy of myotonia congenita and hyperkalemi
Melissa	Ward	3-5	15:00	w25	Nuclear Speckle Protein SON's Role in Transcription Regulation at an Inducible Reporter Gene Array
Lee	Wintermute	3-5	16:00	w26	The effects of mental workload on P300 amplitude for use in cognitive probing
Jeff	Nador	3-5	15:00	w27	Time-course of the Neural Representation of Navigation
Matthew	Murphy	3-5	16:00	w28	CyPPA effects on SK Channels in SOD1G93A Mouse Model



Interested in going to graduate school or continuing your graduate education? The Wright State University's Graduate Student Assembly is hosting a panel discussion on the what, where, when and how's of getting into and surviving graduate school. The panel will include a diverse range of current WSU CoSM graduate students in M.D./Ph.D., Ph.D. and Master's programs to help answer your questions and inspire you to reach your career goals. Unsure if graduate school is for you? This is your chance to gain perspective on why other students continue on in their education and why it was the best choice for them.

When: Friday, September 20, 2:50 pm

Where: NEC (Neuroscience and Engineering Bldg.) 101