		•	dent Posters							
32B2E	stuaents IIS	ted first, by	last name							
Poster number	Session	Topic area	First name	Last name	What is your role?	GSBSE student?	Organization/Affil	email	Abstract Title	Judging notes
	Basic and Applied Research in Biological Sciences	Molecular Biology	Omodasola	Adekeye	Graduate Student	Student:	University of Maine	omodasola. adekeye@maine. edu	Protein Tyrosine Phosphatase Receptor Type Q (Ptprq) is involved in the maintenance of glomerular filtration barrier integrity	yes
205	Basic and Applied Research in Biological Sciences	Biology	Ahmed	Almaghasilah	Graduate Student	~	University of Maine	ahmed. almaghasilah@mai ne.edu	Assessing nuclear architecture in zebrafish Duchenne muscular dystrophy model	yes
	Basic and Applied Research in Biological Sciences	Neuroscience	Felix Gershon	Anim	Graduate Student	~	University of Maine/The Jackson Laboratory	gershon. anim@maine.edu	Investigation of the expression pattern of eEF1A and its role in early onset motor neuron disease	yes
262	Biomedical Engineering & Medical Physics	Materials	Zach	Applebee	Graduate Student	✓	University of Maine	zachary. applebee@maine. edu	Multi-Component Liquid-Infused Systems: A New Approach to Functional Coatings for Biomaterials	yes
214	Basic and Applied Research in Biological Sciences	Biology/ Molecular Biology	Mary	Astumian	Graduate Student	~	GSBSE, Univesity of Maine	mary. astumian@maine. edu	The Localization of Dystroglycan and Integrin Proteins Within Muscle Cell Membranes	yes
271	Health and Social Sciences	Other/Genomics, Pathology, and Oncology	Michael	Babcock	Graduate Student	~	University of Maine GSBSE	mbabco51@maine.	Improving Cancer Patient Access to Precision Medicines: Maximizing Tissue for Molecular Profiling	yes
259	Basic and Applied Research in Biological Sciences		Bailey	Blair	Graduate Student	~	GSBSE	bailey. blair@maine.edu	Uncovering C. albicans Factors that Modulate the Host Immune Response	yes
231	Basic and Applied Research in Biological Sciences	Molecular Biology	Arad	Bustan	Graduate Student	~	JAX	arad.bustan@jax.	Investigating the Role of KRAB Zinc Finger Proteins (KZFPs) in Mitigating Non- syndromic Cleft Lip and Palate (CLP) in A/WySn Mice	yes
212	Basic and Applied Research in Biological Sciences	Biology/ Computer Data	John	Butts	Graduate Student	~	GSBSE	john.butts@maine.	PRIORITIZATION OF NON-CODING CANCER DRIVERS USING MPRA	yes
211	Basic and Applied Research in Biological Sciences	Biology, Molecular Biology	Samantha	Costa	Graduate Student	~	GSBSE/MHIR	samantha. costa@maine.edu	PD-L1 Expressing Myeloid Cells Promote Bone Marrow Immunosuppression and Osteoclastogenesis with Diet-induced Obesity	yes
224	Basic and Applied Research in Biological Sciences	Microbiology/Vir ology	Sophie	Craig	Graduate Student	~	GSBSE/University of Maine	sophie. craig@maine.edu	Cell-type specific mechanisms of JC polyomavirus infection	yes
275	Basic and Applied Research in Biological Sciences	Biology	Shawn	David	Graduate Student	~	University of Maine	shawn. david@maine.edu	Role of T cells in Clonal hematopoiesis of indeterminate potential (CHIR)	yes
242	Basic and Applied Research in Biological Sciences	Neuroscience	Cory	Diemler	Graduate Student	~	University of Maine	cory.diemler@jax.	Microglia Depletion Results in Increased Susceptibility to Ocular Hypertension- Dependent Glaucoma	yes
254	Basic and Applied Research in Biological Sciences	Other/Biomedical science	Logan	Douglas	Graduate Student	~	Maine Health Research Institute/ GSBSE	logan. douglas@maine. edu	Effects of Developmental Thyrotoxicosis on Brain Gene Expression and Behavior	yes

264	Biomedical Engineering & Medical Physics	Materials	Adeola	Fadahunsi	Graduate Student	<b>V</b>	University of Maine	adeola. fadahunsi@maine. edu	Cellulose Nanofibril (CNF) Composite for Osseointegration and Bone regeneration	yes
	Basic and Applied Research in Biological Sciences	Molecular Biology	Remi	Geohegan	Graduate Student	<b>✓</b>	Graduate School of Biomedical Sciences UMaine Orono	remi. geohegan@maine. edu	Characterizing the Effects of Aging on Nuclear Transport in Yeast	yes
	Basic and Applied Research in Biological Sciences	Neuroscience	Brianna	Gurdon	Graduate Student	<b>✓</b>	UMaine GSBSE/ JAX	briannagurdon@g mail.com	Mapping genetic modifiers of Alzheimer's disease neuropathology endophenotypes in the AD-BXD panel	yes
260	Biomedical Engineering & Medical Physics	Diagnostics/ Optical & Non- Optical Image Analysis	Joshua	Hamilton	Graduate Student	✓	University of Maine	joshua. hamilton@maine. edu	Multiscale Computational Analysis of Anisotropic Signatures in the Breast Tissue Tumor Microenvironment	yes
244	Basic and Applied Research in Biological Sciences	Neuroscience	Sarah	Holbrook	Graduate Student	<b>V</b>	GSBSE	holbrook. sarah@maine.edu	AAV9-Ighmbp2 gene therapy significantly improves motor performance in severe SMARD1-like mouse model, nmdem3, and CMT2S mouse model, nmdem5	yes
226	Basic and Applied Research in Biological Sciences	Microbiology/Virol	Lola	Holcomb	Graduate Student	✓	University of Maine	lola. holcomb@maine. edu	Early life exposure to broccoli sprouts confers stronger protection against enterocolitis development in an immunological mouse model of inflammatory bowel disease.	Yes
206	Basic and Applied Research in Biological Sciences	Biology	Amanda	Ignacz	Graduate Student	<b>V</b>	University of Maine	amanda. ignacz@maine.edu	DPM3 functions in both dystroglycan- dependent and independent roles in neuromuscular disease progression	yes
219	Basic and Applied Research in Biological Sciences	Biology/ Molecular Biology/ Other/ Regeneration	Gabriela	Johnson	Graduate Student	✓	University of Maine and M.D.I. Biological Laboratory	gjohnson@mdibl.	Development of two mechanistically distinct transgenic in vivo axolotl cellablation systems at various life stages	yes
235	Basic and Applied Research in Biological Sciences	Molecular Biology	Audrie	Langlais	Graduate Student	<b>~</b>	MaineHealth Institute for Research	audrie. langlais@maine. edu	Morphine-induced Bone Loss is Associated with altered Bone miRNA Expression in Male C57BL/6J Mice	yes
236	Basic and Applied Research in Biological Sciences	Molecular Biology	Marissa	McGilvrey	Graduate Student	✓	MaineHealth	Marissa. mcgilvrey@maine. edu	Essential for cell survival: optimizing an in vitro model of methionine restriction	yes
207	Basic and Applied Research in Biological Sciences	Biology	Hannah	Megathlin	Graduate Student	$\checkmark$	University of Maine	hannah. megathlin@maine. edu	Removal of mouse FcyRl in NSG mouse strain increased IgG1 survival in serum	yes
237	Basic and Applied Research in Biological Sciences	Molecular Biology	Monique	Mills	Graduate Student	$\checkmark$		monique. mills@maine.edu	The Role and Regulation of TRP53 in the oocyte's response to radiation-induced damage	yes
216	Basic and Applied Research in Biological Sciences	Biology/ Molecular Biology	Michayla	Moore	Graduate Student	$\checkmark$	MHIR	michayla. moore@maine.edu	ALK1 Coordinates Pro-Angiogenic Sclerostin, CD105, and IGFBP3 Secretion Following Preconditioning with BMP9 in Human Cardiac Progenitor Cells	yes
245	Basic and Applied Research in Biological Sciences	Neuroscience	Madison	Mueth	Graduate Student	$\checkmark$	University of New England	madison. mueth@maine.edu	CUGBP Elav-like family member 4 (CELF4) acts as a negative regulator of nociceptor excitability and hyperalgesia in mice	yes
238	Basic and Applied Research in Biological Sciences	Molecular Biology	Connor	Murphy	Graduate Student	<b>▽</b>	University of Maine/MaineHeal th Institute for Research	connor.s. murphy@maine. edu	Pharmacological Inhibition of the Long- chain Acyl-CoA Synthetase Isozymes with Triacsin C Impairs Multiple Myeloma Cell Proliferation, Survival and Mitochondrial Function	yes
217	Basic and Applied Research in Biological Sciences	Biology/ Molecular Biology	Madeleine	Nowak	Graduate Student	✓	MaineHealth Institute for Research/GSBSE	madeleine. nowak@maine.edu	Potential Liver-Adipose Crosstalk in the Regulation of Adipose Mest and Obesity	yes

213	Basic and Applied Research in Biological Sciences	Biology/ Molecular Biology	Olaleye	Olajuyin	Graduate Student	<b>V</b>	University of Maine	olaleye. olajuyin@maine. edu	Exploring Inflammatory Stimulation for Neo-Nephron Regeneration in Adult Zebrafish Kidneys	yes
	Basic and Applied Research in Biological Sciences	Molecular Biology	Hilda	Opoku Frempon	Graduate	<b>~</b>	The university of Maine and the Jackson Laboratory	hilda. opoku@maine.edu	Karyotyping 6 Strains of Wild-derived Inbred Mice	yes
	Basic and Applied Research in Biological Sciences	Neuroscience	Andrew	Ouellette	Graduate Student	<b>✓</b>	The University of Maine	andrew. ouellette@maine. edu	Investigating Dendritic Spine Morphology as a Mediator of Cognitive Outcomes in Aged Diversity Outbred Mice	?
220	Basic and Applied Research in Biological Sciences	Biology/ Molecular Biology/Physiology /Pathophysiology	Rebecca	Peters	Graduate Student	<b>V</b>	University of Maine	rebecca. peters@maine.edu	Osteoclast-specific Deletion of $\beta$ 2- Adrenergic Receptor Limits Trabecular and Cortical Bone Acquisition in Male but not Female Mice	yes
272	Computational Biolo	Modeling	Rajat	Rai	Graduate Student	$\checkmark$	Graduate Studies in Biomedical Engineering and Sciences	rajat.rajat@maine.	Retinal Venous Vulnerability in Primary Open Angle Glaucoma: Effects of Intraocular Pressure and Blood Pressure	Nos
	Basic and Applied Research in	Molecular Biology	Kodey	Silknitter	Graduate Student	<u>~</u>	Graduate School of Biomedical Science and Engineering, University of Maine	kodey. silknitter@maine. edu	Characterizing dystroglycanopathy in novel zebrafish models; the need of glycosylation for muscle and motor neuron development	yes
247	Basic and Applied Research in Biological Sciences	Neuroscience	Megan	Tomasch	Graduate Student	$\checkmark$	University of Maine	megan. tomasch@maine. edu	The impact of neonatal pain on the development and cellular physiology of the central nucleus of the amygdala	I will have a poster but do not wish to be judged.
208	Basic and Applied Research in Biological Sciences	Biology	Courtney	Willey	Graduate Student	<b>✓</b>	JAX	courtney. willey@maine.edu	NBL1 Correlates with Kidney Disease in Alport Syndrome	yes
276	Basic and Applied Research in Biological Sciences	Biology	Chenhao	Yang	Graduate Student	<b>✓</b>	University of Maine	chenhao. yang@maine.edu	Notch signaling regulates PVAT phenotype and function	yes
209	Basic and Applied Research in Biological Sciences	Biology	Caryl	Young	Graduate Student	<b>~</b>	University of Maine	caryl. young@maine.edu	Mybl2 regulates cell cycle progression and genomic stability in sensory progenitors.	yes
274	Basic and Applied Research in Biological Sciences	Physiology/Patho physiology	Mohamad	Zaid	Graduate Student	$\checkmark$	University of Maine	Mohamed. zaid1@maine.edu	Sex-based differences in ophthalmic and central retinal artery velocity: From the heart to the eye analysis	yes
<del>20</del> 4	Basic and Applied- Research in- Biological Sciences	<del>Biology</del>	<del>Tayo</del>	Adekeye	Graduate- Student		University of Maine	tayo. adekeye@maine. edu	Mylpf dosage controls myofibril growth infast-twitch skeletal muscle	Yes Unable to attend
261	Biomedical Engineering & Medical Physics	Materials	Cameron	Andrews	Graduate Student		The University of Maine	cameron. andrews@maine. edu	Scalable Cross-Linking to Reduce the Plasticity of Rehydrated Cellulose Nanofibril Composites	Yes
222	Basic and Applied Research in Biological Sciences	Microbiology/Virol ogy	Nnamdi	Baker	Graduate Student		The University of Maine	nnamdi. baker@maine.edu	Using intravital imaging in zebrafish to understand signaling underlying innate immune response to C. albicans infection.	Yes
253	Basic and Applied Research in Biological Sciences	Neuroscience/ Instrumentation/ Systems Development	Kailey	Bell	Graduate Student		The University of Maine	kailey.bell@maine. edu	Engineering Neuromuscular Circuitry On- Chip	Yes
201	Basic and Applied Research in Biological Sciences	Biochemistry/ Microbiology/Virol ogy/ Molecular Biology	Lucas	Bennett	Graduate Student		University of Maine	Lucas. bennett@maine. edu	Probing the Role of Serotonin Receptors in the JC Polyomavirus Infectious Cycle	Yes

	Biomedical Engineering & Medical Physics	Materials	Riley	Bosco	High School Student		Bangor High School	rbosco@bangorsch ools.net, rileybosco@icloud. com	Bio-IVP: The Biodegradable Intravenous Packet	Yes
	Basic and Applied Research in Biological Sciences	Molecular Biology	Samuel	Broadbent	Undergraduate Student		BS in molecular and cellular biology	samuel. broadbent@maine. edu	Tissue-Clearing and Molecular Labeling of Early Axolotl Developmental Stages	Yes
	Biomedical Engineering & Medical Physics	Materials	Avery	England	Graduate Student			avery. england@maine. edu	Synthesis and characterization of sub- nanometer silver clusters formed by high- speed microfluidic turbine mixing	Yes
	Basic and Applied Research in Biological Sciences	Microbiology/Virol	Anjanadevi	Govindaraj	Undergraduate Student		University of New England	agovindaraj@une. edu	Pyrogallol-hydrocarbon hybrid compounds increase linezolid efficacy against staphylococci	?
	Basic and Applied Research in Biological Sciences	Biology, Molecular Biolog	Vijayishwer	Jamwal	Graduate Student		Mount Desert Island Biological Laboratory	vijayishwer. jamwal@maine. edu	Dynamics of Muscle Regeneration in Axolotl (Ambystoma mexicanum) Appendages	?
	Basic and Applied Research in Biological Sciences	Biology/ Molecular Biology	Cory	Johnson	Postdoc		MDI Biological Laboratory	cory.p. johnson@maine. edu	Methods to Improve The Vascularization of iPSC-Derived Kidney Organoids	Not judged. Also giving a talk. GSBSE Alumn
	Basic and Applied Research in Biological Sciences	Molecular Biology Food science Microbiology/Virol ogy	Marissa	Kinney	Graduate Student		University of Maine	marissa. kinney@maine.edu	Using Steamed Broccoli Sprouts to Better Understand Bacterial Glucosinolate Metabolism	yes
	Basic and Applied Research in Biological Sciences	Biochemistry/ Other/ Toxicology	Jennifer	Newell	Faculty		University of Maine	jennifer. newellcaito@main e.edu	Antioxidant Effects of Partridgeberry Leaf Extract	Collaboration with faculty. Do not judge
	Basic and Applied Research in Biological Sciences	Microbiology/Virol ogy	Amanda	Sandberg	Graduate Student		University of Maine	amanda. sandberg@maine. edu	GPCR Agonists and Antagonists Identified to Reduce JC Polyomavirus Infection in Human Brain Cells	Yes Attending on Thursday, Poster I teach classes from 12-5 on Wednesdays so I won't be able to come present at my poster u til my class is finished. I was planning on putting a note on my poster explaining this so that my judging occurs once I have arrived. Thank you.
	Basic and Applied Research in Biological Sciences	Pharmacology/ Food science	Carmella Steven	St Pierre (studer Sutton (faculty)	Pharm D student (St Pierre)		UNE	ssutton1@une. edu: cstpierre2@une. edu	Modification of an in vitro intestinal inflammation model that realistically predicts cellular damage from low density nanoplastic.	Collaboration with faculty member, do not judge
	Biomedical Engineering & Medical Physics	Materials	Blake	Turner	Graduate Student		University of Maine	blake. turner@maine.edu	Cellulose-Based Hydrogels for use as Nutrient and Drug Depots in Biomedical and Veterinary Applications	Yes
	Basic and Applied Research in Biological Sciences	Biochemistry/ Microbiology/Virol ogy/ Molecular Biology	Jessica	Walsh	Undergraduate Student		University of Maine, Orono	jessica.m. walsh@maine.edu	Modeling Acute Kidney Injury Following Influenza Virus Infection Using Zebrafish	Do not wish to be judged.
				58		GSBSE				
				50		41				
24 Res	search Sym	posium Fac	ulty Posters							
last n	ame									

Poster	Session	Topic area	First name	Last name	What is your role?	Organizat ion/Affili ation	Job Title	email	Abstract Title	
lullibei	Basic and Applied	Topic area	riist iiaille	Last Hairie	your role:	ation	Histology &	eman	Abstract Title	
100	Research in Biological Sciences	Biology/Neuros cience	Peter	Caradonna	Core Staff	University of N	Imaging Core	pcaradonna@une. edu	UNE COBRE Histology & Imaging Core Services	
111	Health and Social Sciences	Other/ Oncology	Lory	Gaitor	Senior Clinical Research Coordinator	The Jackson La	Senior Clinical Research Coordinator	lory.guerrette@jax.c	Enhancing Oncology Research Engagement: A Comparative Analysis of Remote and Traditional Study Conduct in a Multi-site, Multi-cohort Observational	
105	Health and Social Sciences	Nursing	Colleen	Marzilli	Faculty	University of M	Professor of Nursing and Graduate Nursing Program Coordinator	colleen. marzilli@maine. edu	Be A JEDI Pro	
106	Basic and Applied Research in Biological Sciences	Biochemistry/ Other/ Toxicology	Jennifer	Newell	Faculty	University of N	Senior Lecturer of Biochemistry	jennifer. newellcaito@main e.edu	Antioxidant Effects of Partridgeberry Leaf Extract	
114	Basic and Applied Research in Biological Sciences	Physiology/Path ophysiology	Anastasia	Paulmann	Postdoctoral Researcher	Mount Desert	Postdoctoral Researcher	apaulmann@mdibl.	The African Turquoise Killifish (Nothobranchius furzeri): A Novel Model for Investigating Vascular Aging	
113	Biomedical Engineering & Medical Physics	Other/Medical Device Development and Testing	Suzanne	Wendelken	Research Staff	The Roux Instit	Research Scientist	s.wendelken@north	A Novel, Non-invasive Airway Device for Bag-mask Ventilation and Rescue Breathing	
2024 ME	ERGE Poste	rs								
120	"Bridging the G	ian: accessing m	ental healthcare in	Lincoln County"						
		•	James W Jarvis, ME	•						
121	"Improving Der	matological Care	in Kennebec Cour	ity: Reducing The	Disparity of R	ural Healthca	ro"			
			homas Gearan MD		Dispunity of Ki	arai ricaltiica				
122	"Expanding Per	rinatal Support fo	or Individuals with (	Opioid Use Disorde	er in Washingt	on County"				
	Author: Abigail D	eSchiffart								
123	"Rural Mental H	lealth: A Look at	Available Local Dat	a and Community	Perspectives"	,				
	Authors: Ryan Hibbs, OMS-II, Annie Derthick, PhD									
124	"Developing a F	Rural Learning P	latform in Maine"							
			avid McLellan MBA,	Kneka Smith EdD, I	MPH, Kalli Vara	aklis MD, MSE	.id			