

Last Name	First Name	Major	Project Title	Faculty Sponsor	Faculty Department
Bolger	Martin	APM	Thermal Behavior of a Cuyahoga River Dam Reservoir	Somersalo, Erkki	MATH
Bowcutt	Michael	CMP	Tangible Geometric Games: TaG-Games	Lee, Kiju	EMAE
Breindel	Christine	NBM	Functional Studies of Long Non-coding RNA During Spermatogenesis	Khalil, Ahmad	GENE
Chan	Mei (Jessica)	BIO	The role of Apolipoprotein A2 in Cognition	Decker, Michael	NURS
Cheng	Yuxuan	EBI	Characterization of the miR-29b-1-5p Release Profile from Photocleavable Hydrogels and its Effects on hMSC Osteogenesis in vitro	Alsberg, Eben	EBME
Cyncynates	David	MAP	Evolution of Anisotropic Universes and Possible Instability in FLRW Universes	Glenn Starkman	PHYS
Devarajan	Mahima	BIO	The interaction between $\beta$ -catenin and PCR2 in Cranial Neural Crest Cell differentiation	Atit, Radhika	BIOL
Doe	Natalie	CHE	The Impact of IL-17A on Mucosal Innate Immune Responses in Oropharyngeal Candidiasis	Hise, Amy	PATH
Dona	Keith	EBI	Potential Motor Impairments Resulting from Neural Implants and Effectiveness of Anti-oxidative Treatments against these Impairments	Capadona, Jeffrey	EBME
Eurich	Jennifer	BCH	Role of Connexin 46 in Glioblastoma Self-Renewal	Lathia, Justin	MMED
Gabriel	Annika	EAR	Detection of Cosmic Rays	Covault, Corbin	PHYS
Gupta	Ishita	COG	Intraocular pressure lowering mechanism of action of topical lipids for the treatment of glaucoma in DBA/2J mice	Toris, Carol	OPHTH
Harrington	Stephen	BCH	Validating the Expression of Genes in the Stria Vascularis Using In Situ Hybridization	Basch, Martin	OTOL
Hii	Jeffrey	NBM	PBP1b (Penicillin Binding Protein) and GCC (Guanyl Cyclase C) Protein Expression and Crystallization	Focco van den Akker	BIOC
Jaikumar	Prerana	EBI	Evaluate ECO/siHer2 as an alternative therapy for patients harboring Her2 breast cancers.	Lu, Zheng-Rong	EBME
Jenkins	Tyler	CHE	Analysis of and determination of the crystal structure for an N-capped silicon phthalocyanine	Kenney, Malcolm	CHEM
Johnson	Kendra	BCH	Role of inflammasomes in innate responses of human epithelial cells to Candida albicans	Hise, Amy	PATH
Jupalli	Hamsitha	BCH	The Epigenetic Link Between Obesity and Colon Cancer in B6.Apc min/+ Mice	Berger, Nathan	MEDS
Kaplan	Sydney	EBI	Using Computer-Extracted Features to Detect Cribriform Patterns in Prostate Cancer Histopathology Images	Lee, George	EBME
Kapur	Rupika	NBM	Effects of Short Chain Fatty Acids on Intestinal Epithelial Barrier Function	Levine, Alan	MBIO
Kwan	Emily	ECE	Biomolecular Signal Modulation for Improved Cartilage Tissue	Baskaran, Harihara	ECHE

Lange	Catherine	BIO	Using odor learning to understand how the Hawkmoth <i>Manduca sexta</i> tracks odor plumes	Willis, Mark	BIOL
Ledger	Joseph	CMP	Predictive Modeling of Drug Lethality using Network-Based Machine Learning Algorithms	Koyuturk, Mehmet	EECS
Li	Yuemeng	EBI	Measurement of transmural perfusion gradient for assessment of coronary artery stenosis using CT perfusion	Wilson, David	EBME
Liu	Samantha	BCH	Investigating brain circuitry underlying addictive behavior	Wesson, Daniel	NEUR
Lorkowski	Morgan	EBI	Synergistic Approach to Targeted Nanoparticle Treatment of Aggressive Brain Cancer	Peiris, Pubudu	EBME, RAD1
Maurer	Nicholas	BIO	Development of cancer gene therapies using rAAV and human TRAIL: a preliminary proof-of-concept study in mice	Kong, Qingzhong	PATH
Moran	Jacob	MAP	Laser Action in Plasmonic Mesocapsules: From Random to Plasmon Lasing	Strangi, Giuseppe	PHYS
Nealley	Harrison (William)	PHY	The Role of Pyroxene in Crust-Atmosphere Reactions at the Surface of Venus	Harvey, Ralph	EEPS
Nigam	Anmol	BCH	Spatio-Temporal Analysis of the Meiotic Regulatory Mechanism of the Forkhead Transcription Factor Fhl1 in Fission Yeast	Wise, Jo Ann	MBIO
Osborne	Joshua	PHY	A Search for Universal Topology	Starkman, Glenn	PHYS, ASTR
Ostoin	Zane	ECE	Free-volume Changes of Grafted poly(acrylic acid) Brushes in Response to pH Studied by Positron Annihilation Lifetime Spectroscopy (PALS)	Hore, Michael	EMAC
Reyes-McKinley	Jahlyn	EPH	Photoluminescence and Scanning Electron Microscopy of ZnGeN <sub>2</sub> and ZnSnN <sub>2</sub>	Kash, Kathleen	PHYS
Rubeo	Scott	EMC	Perturbation Analysis of Neuromechanical Model of Insects	Quinn, Roger	EMAE
Sheehan	Megan	EBI	Prevention of congenital heart defects associated with prenatal alcohol exposure using glutathione supplementation	Rollins, Andrew	EBME
Shober	Patrick	GEO	Fragmentation, cohesion, and space weathering processes for CM2 and H5 meteorites	Harvey, Ralph	EEPS
Soffer	Arielle	EBI	N-cadherin Modified Alginate Microspheres to Promote Chondrogenesis in High Density Human Mesenchymal Stem Cell Culture Systems	Alsberg, Eben	EBME
Wagner	Robert	CMP	Creating a Goal- Based Decoder for increased BCI-FES control	Kirsch, Robert	EBME
Wek	Kristen	POL	Tunable Mechanical Gradients in Styrene Butadiene Rubber Nanocomposites	Stuart Rowan	EMAC
Welsh	Emily	EMC	Investigation of Water Strider Locomotion and its Potential for Real-World Applications	Quinn, Roger	EMAE
Zhu	Wenshao (Marty)	EAP	Optimizing Decoder Performance in Brain-Computer Interfaces	Ajiboye, Abidemi	EBME
Kulpins	Danielle	NBM	Female Athlete Triad in High School Runners	Kam, Lynn	NTRN

Mahajan	Deepti	BIO	Analysis of the Conditioned Lesion Response in Axon Regeneration with Application of the Non Steroidal Anti-Inflammatory Drug Ibuprofen and Steroid Dexamethasone	Zigmond, Richard	NEUR, PATH
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