

## Faculty-Student Research Grants 2014-2015

Faculty Sponsor	Department	Project Title	Student(s)	Award
King, Thomas	Biomolecular Sciences	Assignment of the classical wellhaarig (we) mutations to the Tgm3 gene in mice.	Huynh, Minh; Shaw, Hailie; Brennan, Brett; Campbell, Charlene	\$600
Chakraborty, Sourav	Chemistry and Biochemistry	Probing into products of tissue browning in apples - quinones or higher-order polyphenols?	Steele, Alexander; Walton, Jahmar	\$1,000
Dobbs-McAuliffe, Betsy	Biomolecular Sciences	Understanding the effects of retinoic acid on nervous system of planaria through immunofluorescence.	Pokhrel, Astha	\$433
Dobbs-McAuliffe, Betsy	Biomolecular Sciences	Investigating autophagy in zebrafish treated with acetaminophen and ethanol.	Sulejmanovic, Amela; Dwyer, Ona; Kohm, Audra	\$547
Maurer, Sarah	Chemistry and Biochemistry	Analysis of Lipid Membrane Content in Dynamic Environments	Chamberland, Amanda; Aakjar, Leanne	\$600
King, Thomas; Davis, Michael	Biomolecular Sciences	Development of a genetic screen for Gyrate Atrophy of the Choroid and Retina (GACR)	Nesta, Alex; Palanza, Kenny	\$622
Davis, Michael	Biomolecular Sciences	Bacteriophage Typing of an Extensive Bacterial Collection of Propionibacterium acnes	Parent, Sydney	\$500

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Jackson, Mark	Biology	Neurophysiological interaction between the stress neurohormones corticosterone and serotonin in the crayfish abdominal ganglion	Mangini, Daniel	\$474
Oyewumi, Oluyinka	Geological Sciences	Assessing Stream and Soil Sediment Contamination by Trace Elements within the Scantic River Watershed, East Windsor, CT	Litwin, Brian	\$500
Hoopengardner, Barry	Biomolecular Sciences	The KCNQ gene is a potential editing target in Drosophila melanogaster	Ahmed, Affrin; Gurahoo, Ceilena	\$550
Naoumov, Viatcheslav	Engineering	HPRE Project - Stage V: Research on the Combustion of the Solid Propellant Grains with Inner Diameters of 1.5". Experimental and Theoretical Study of the Losses of Unburned Paraffin and Bee's Wax	Deptula, Patryk; Werkheiser, Scott; Nguyen, Huy; Mocariski, Adam	\$1,000
Prusak, Zbigniew	Engineering	In Car Dampening Control System (ICDC)	Balczun, Tyler; Campbell, Austin	\$787
Salama, Talat; Thamma, Ravindra	Manufacturing and Construction Management	Constructing and Testing Model Steel Truss Bridge	Russell, Calvin D.; Burns, Nicholas S.	\$1,000
Wu, Shuju	Computer Electronics and Graphic Technology	Active RFID Automatic Garage Door System	Bosse, Justin A.; Tran, Peter	\$354

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Chakraborty, Sourav	Chemistry and Biochemistry	Investigation of oxidation products of fluorescent probe Amplex Red using metal catalyzed oxidation of hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) by fluorometric and spectrophotometric methods	Edelbaum, Dylan	\$500
Wei, Fu-Shang	Engineering	Folding Wing Modification for Ultralight Aircraft	Carucci, Vincent; Lisewski, Michael; Sullivan, Matt; Murphy, Brian	\$2,000
Wu, Shuju	Computer Electronics and Graphic Technology	Smart User Authentication using RFID/Bluetooth and Mobile Phone	Wanczyk, Edward D.; Savastio, Matt R.	\$325
Jackson, Mark	Biology	Long-term potentiation in lateral giant motor neuron in crayfish in presence of stress hormone	Ngu, Tuong	\$485
Hoopengardner, Barry	Biomolecular Sciences	RNA editing in components of nervous signal transduction	Benet, Gabriel; Slater, Chelsea	\$530
Hapeman, Paul	Biology	Extant of Occurrence of the Endangered American Marten ( <i>Martes americana</i> ) in Southern Vermont and Northwestern Massachusetts	O'Brien, Patrick	\$340
Broyld, Daniel	History	Construction and Destruction: Route 9, Route 72, and the Transformation of an Urban Landscape	Winton, Shaun	\$200
Bray, Alicia	Biology	<i>Culiseta melanura</i> dispersal from swamp habitat and spread of Eastern Equine Encephalitis in Connecticut	Mondak, Julia	\$300

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Wang, Haoyu	Manufacturing and Construction Management	3D CAD Plug-In Software Development of Orthopedic Pre-Surgical Diagnosis	Pawlowicz, Boleslaw S.	\$300
Broyld, Daniel	History	Pequot Perseverance: The Hidden Legacies of the Pequot War for a Native People of New England	Benjamin, Gabriel	\$200
Wei, Fu-Shang	Engineering	A Wind Tunnel Model of Mini K-MAX Helicopter	MM Hoque, MM; Celi, Roman; Schwartz, William	\$1,500