

**BOARD OF REGENTS**  
**EASTERN MICHIGAN UNIVERSITY**

**REPORT**

**REPORT: SUMMER 2014 UNDERGRADUATE RESEARCH STIMULUS PROGRAM AWARDS**

**ACTION REQUESTED**

It is recommended that the Board of Regents accept and place on file the Report on the Summer 2014 Undergraduate Research Stimulus Program Awards.

**STAFF SUMMARY**

The Undergraduate Research Stimulus Program is intended to facilitate research partnerships between undergraduate students and Eastern Michigan University faculty. Student awardees will receive a \$2,000 fellowship in support of their research efforts. This award will be in the form of a credit to the student's university account. The collaborating faculty member may receive \$500 to be used for lab/studio supplies or equipment, professional travel, or other professional expenses.

The Provost and Executive Vice President has awarded a total of \$32,000 to twenty (20) undergraduate students (one award was a joint project with 5 students) and \$7,500 to fifteen (15) Eastern Michigan University faculty for research and creative projects under the Undergraduate Research Stimulus Program for summer 2014.

**FISCAL IMPLICATIONS**

The cost of Undergraduate Research Stimulus Program awards will be funded from the Provost's indirect cost recovery.

**ADMINISTRATIVE RECOMMENDATION**

The proposed action has been reviewed and is recommended for Board approval.

University Executive Officer

Date

**EASTERN MICHIGAN UNIVERSITY**  
**Academic Affairs**  
**Office of the Provost and Executive Vice President**

Undergraduate Research Stimulus Program Award  
Summer 2014 Winners

1. Ethan Braun, Katelyn Briolat, Brianna Fassezke, Keith Kraker, Sarah Percy (all majoring in Dietetics). "The Effect of Raspberry Ketone Supplementation on Body Weight, Body Composition, and Substrate Oxidation in Healthy, Overweight Adults." Faculty mentor: John Carbone (School of Health Sciences).
2. Philip Ewing (majoring in Professional Chemistry). "Development of Block Copolymers for Aqueous Catalysis." Faculty mentor: Gregg Wilmes (Department of Chemistry).
3. Jeffrey Flegal (majoring in Engineering Physics). "Quantifying the Predictability of Solar Wind Data." Faculty mentor: David Pawlowski (Department of Physics & Astronomy).
4. RaKeenja Fluellen (majoring in Biochemistry). "Iterative Design and Synthesis of Novel Inhibitors of Plasminogen Activator Inhibitor-1." Faculty mentor: Cory Emal (Department of Chemistry).
5. Linda M. Harrison (majoring in Anthropology). "Reconstructing Ancient Diet: Stable Isotope Analysis of Human Dental Calculus from an Early Medieval Merovingian Population from Northern France." Faculty mentor: Megan K. Moore (Department of Sociology, Anthropology & Criminology).
6. Marisa C. Hildebrandt (majoring in Biology). "DNA Extraction and Analysis to Determine Biotype and Ploidy of *Ambystoma* Salamanders." Faculty mentor: Katherine Greenwald (Department of Biology).
7. Brittany M. Jewell (majoring in Professional Biochemistry). "Modeling Inhibitors of the PAI-1 Protein." Faculty mentor: Maria Milletti (Department of Chemistry).
8. Linda Jochum-Owczarzak (majoring in Health Administration). "Perception Influences Performance." Faculty mentor: Alankrita Pandey (Department of Management).
9. Nathan Kilian (majoring in Biology). "Resolving the Phylogenetic Relationship of *Peromyscus* using SINEs." Faculty mentor: David Kass (Department of Biology).
10. Hieutrong Nguyen (majoring in Information Assurance). "wearable Hacking Unit." Faculty mentor: Xiangdong Che (School of Technology Studies).
11. Alexa Salsbury (majoring in Biochemistry/Toxicology). "Feline Leukemia Virus: Subtype Insertion at the c-Myc Gene." Faculty mentor: Heather Holmes (Department of Chemistry).
12. Valerie Sponyoe (majoring in Biology). "Effect of Common Fragile Site Flexibility Peaks on Mitotic Recombination in *S. cerevisiae*." Faculty mentor: Anne Casper (Department of Biology).

13. Michaela Steinbacher (majoring in Nursing). "Understanding Why Cardiac Patients Do Not Attend BRIDGE Transitional Care Appointments." Faculty mentor: Sherry Bumpus (School of Nursing).
14. Susan Vivier (majoring in Engineering Physics). "Studying the Transition to Chaos and Building Chaotic Demonstration Circuit." Faculty mentor: Ernest Behringer (Department of Physics & Astronomy).
15. Samantha White (majoring in Exercise Science). "Anthropometric and Physiological Implications of Delayed Menarche." Faculty mentor: Andrew Cornett (School of Health Promotion and Human Performance).
16. Brandie Yambrosic (majoring in Biochemistry). "Creating an Enantiomerically Enriched Starting Material for the Construction of Pharmaceutical Building Blocks." Faculty mentor: Harriet Lindsay (Department of Chemistry).