

# Research@UDM

Highlighting research and sponsored programs at  
University of Detroit Mercy

## Fall 2014

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## NIH awards \$21.2 million grant to UDM and three Detroit schools

less likely to persist.

The Detroit consortium's project is called REBUILD Detroit — an acronym for Research Enhancement for Building Infrastructure Leading to Diversity. During the first year of the grant, the four partner institutions will redesign their curriculum with an

emphasis on peer mentoring, early introduction to laboratory research and dedicated faculty advising. The program will recruit its first cohort of students in the second year and begin their training. In order to shift the paradigm of minorities in biomedical research, REBUILD Detroit's goals are aggressive: To have at least 75 percent of its scholars graduate with baccalaureate degrees in biomedical science-related fields and have 50 percent of

those graduates matriculate into biomedical research doctoral programs.

To recruit a broad and diverse of a group of students and offer them research



Left to right: Gary Luk, UDM; Ambika Mathur, WSU; Sally Welch, Marygrove; George Swan, WCCO

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## NIH, continued

training and mentorship activities in a variety of disciplines, the different but complementary Detroit institutions decided to collaborate. Combined, the four colleges and universities enroll more than 47,000 undergraduates, of whom more than 50 percent of whom are underrepresented minorities and/or qualify for federal financial aid.

Marygrove College and Wayne County Community College District will be pipeline partners for REBUILD Detroit, expanding the pool of students in the program and co-developing and implementing the support programs that enable students to learn coursework necessary to enter research careers, in addition to participating in research and mentoring activities.

Wayne State will serve as the research partner in the consortium. As such, it will mentor faculty from other institutions in research skills; provide research-training opportunities; and provide REBUILD scholars skills development in grant

applications, graduate school preparedness, and networking opportunities.

The principal investigators of the grant are Gary Kuleck, dean of the College of Engineering & Science, University of Detroit Mercy; Sally Welch, interim dean of New Program Development, Marygrove College; George Swan, III, vice-chancellor for External Affairs, Wayne County Community College District; and Ambika Mathur, dean of the Graduate School, Wayne State University.

At the conclusion of the BUILD projects, the NIH will disseminate successful approaches widely so that institutions beyond those directly supported by the program may adopt and implement the most effective strategies.

For more information, see the website - [builddetroit.org](http://builddetroit.org)

## Grant Writing Resources

### InfoEd SPIN

SPIN is an extensive funding opportunity database which contains over 40,000 opportunities from more than 10,000 sponsors. It's available through the OSPRA website, UDM Libraries database website, and also at [www.infoed.org](http://www.infoed.org). By creating a 'GENIUS' profile, you can save searches and receive email alerts. Instructional videos are also available on the site. If you have any questions about SPIN or GENIUS, don't hesitate to contact the OSPRA. SPIN is generously funded by the UDM Libraries.

### Foundation Directory Online

Foundation Directory online contains over 400,000 U.S. foundations and corporate donors, over 3 million grants, and over half a million key decision makers. FDO can be accessed at [www.foundationcenter.org](http://www.foundationcenter.org). Please con-

University of Detroit Mercy is one of three Michigan schools to receive nearly \$700,000 in grant money from the U.S. Depart-

## NSF grant to increase women faculty in STEM fields

University of Detroit Mercy (UDM) has been awarded a \$194,996 grant by the National Science Foundation (NSF) through its ADVANCE IT-Catalyst program. The goal of the program is for

## Counseling & Addiction Studies receives HRSA grant

University of Detroit Mercy (UDM) has been awarded a \$702,000 grant from the Health Services and Resources Administration (HRSA) as part of the Behavioral Health Workforce Education and Training (BHWET) for Professionals program. In support of the White House's Now is the Time initiative, the grant program is intended to expand the mental health and substance abuse workforce serving children, adolescents, and transitional-age at- and high-risk youth.

The Counseling program at UDM offers Master's degrees in three specialty areas: Addiction, Clinical Mental Health, and School Counseling, preparing students to work as clinicians, clinical supervisors, program administrators, and leaders in behavioral health care. The grant will provide funding for additional specialized education and training for Counseling students to prepare them to specifically

## Please Remember to Certify Your Effort!

If you have time and effort charged to a sponsored program, please help us stay in compliance with federal regulations.

## Faculty Scholarship Highlights April 2014—October 2014

UDM faculty names are bolded and UDM student names are italicized.

Please note that the library keeps more comprehensive lists of faculty publications over time. Please see the website at <http://research.udmercy.edu/achievement/>

### Book

Benvenuto, Mark A. What You Need for the First Job, Besides the PhD. American Chemical Society, Washington DC. 2014

CERCL Writing Collective, and

Aravindaksha, Shyam Prasad , Puneet Batra, and Partha Sadhu. "Bilateral Alveolar Distraction for large Alveolar Clefts."The Cleft Palate- Craniofacial Journal. C. Yu. 10 Articles in Press 2014

Barron, Daniel, and Jacob Kagey. "The role of the Hippo pathway in human disease and tumorigenesis."Clinical and Translational Medicine. 3:2518 July 2014  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4112623/>

Batra, Puneet, Shyam Prasad Aravindaksha , Narendra Kumar , Meenu Goyal, and Saurabh Sonar. "Modified-casted appliance for surgically assisted rapid palatal appliance: A clinical report."Journal of Indian Orthodontic Society. G. K. Jeerat Singh. 1.2 April-June 2014: 138-142

Bağcı, Özer, Nihad Dukhan , and Mustafa Özdemir. "Metal Foam Hydrodynamics: Flow Regimes from Pre-Darcy to Turbulent."International Journal of Heat and Mass Transfer. 57(2014)

Bağcı, Özer, Nihad Dukhan , and Mustafa Özdemir. "Flow Regimes in Packed Beds of Spheres from Pre-Darcy to Turbulent."Transport in Porous Media. 120(2014)

Bhattacharya, Mithu . "Investigating RFID Adoption in Retail: Using Roger's Stage Model Perspective."Business Process Management Journal. 20(2014)

Bhattacharya, Mithu , and Samuel Fosso Wamba. "A Conceptual Framework of RFID Adoption in Retail Using TOE Framework."International Journal of Technology Diffusion. 26(2014)

Bosnjakovic, Admira , Marek Danilczuk , Shulamith Schlick , Gregory Haugen , Pa Xiong , and Steven Hamrock . "An Attempt to Generate Anion Exchange Membranes by Amination of the Perfluorinated 3M Precursor Leads to



- Hale, Deborah . "Influenza 101: What you Need to Know." *Home Healthcare Nurse*. Oct 2014
- Harrison, Mary-Catherine . "'Economics and Ethics in the Victorian Novel.'" *Studies in the Novel*. 46.3 Fall 2014: 371-375
- Kelly, R.S.M., Mary , andMaureen Anthony . "The Last Generation of Sister Administrators: Insights about the Transition of Catholic Hospital Leadership." *American Catholic Studies*. 125.3 (2014)
- Kinaia, Bassam M. , Maanas ShaAnthony L. Neely , and Harold E. Goodi. "Crestal Bone Level Changes Around Immediate Implant." *SYSTEMATIC REVIEW and META ANALYSIS*. *Journal of Periodontology*. 85 November 2014: 1537-1548
- Kwasky, Andrea , andCarla Groh . "Coping self-efficacy as a mediator between vitamin D and depression in young women: A longitudinal study." *Archives of Psychiatric Nursing*.

Bağcı, Özer, Nihad Dukhan, and Mustafa Özdemir. "Liquid Flow in Packed Spheres of Equal Diameters: Regimes, Permeability and Forchheimer Coefficient." Convective Heat and Mass Transfer Conference, Kresna, Turkey. (2014)

Bhattacharya, Mithu, and Samuel Fosso Wamba. "Proceedings of 45th Annual Meeting of the Decision Sciences Institute." Decision Sciences Institute, Tampa, FL, USA. November 2014

Cavanagh, Gerald. "Benchmarks for Jesuit Business Education: Jesuit Presidents, Provosts, Deans and Search Committees." Colleagues in Jesuit Business Education, San Francisco, CA. 2014 July 2014

Greene, Harold H., James M Brown, and Barry Dauphin. "A visual field asymmetry in pre-saccadic fixation durations." Vision Sciences Society, Journal of Vision 14(10), 2014. St. Pete Beach, FL, USA. (2014)

Guan, Li, Andrew Niedera, and Richard Hill. "Simulation-based Design of the Geometry and Control System for an Omnidirectional Ground Vehicle." ASME Dynamic, Systems, and Control Conference (DSCC), San Antonio, TX. October 2014

Horani, Mohammad. "Evaluating the Performance of Intersection Collision Warning Systems over Vehicular Networks." Intelligent Transportation World Congress, Detroit, Michigan / USA. 7 - 11 September 2014

Ross, Robert, E. Prasad Venugopal, Gary Hillebrand, Meghann Murray, and Matt Gonderinger. "Results of a Multi-Year Assessment of Inquiry-Based Second Semester General Physics Laboratory Activities." Proceedings of the 2014 American Society for Engineering Education (ASEE) Annual Conference & Exposition, Indianapolis, IN. June 2014

Saed, Mustafa, and Hanen Idoudi. "Security Considerations in WSN-Based Smart Grids." Conf. Security and Management | SAM'14 | Las Vegas/USA. July 2014

Saed, Mustafa, Nizar Al-Holou, and Kevin Daimi. "Centralized Smart Meter-to-Collector Communications Security." The Society of Digital Information and Wireless Communications (SDIW), Czech Republic. June 2014

Stevens, Jonathan, and Kim Utterback. "Computational Study of Mechanisms of Fuel Cell Membrane Polymer Degradation." Midwest Theoretical Chemistry Conference, Evanston, IL. 15-17 June 2014

Suleiman, Ahmed, and Nihad Dukhan. "Simulation of Convection Heat Transport in Open-Cell Metal Foams." International Conference on Thermophysical and Mechanical Properties of Advanced Materials. (2014)

Weekes, Carmon V.N. "African American Parents Addressing Sexuality with their Adolescent Sons: A Multimedia Intervention." 2014 Midwest Nurse Research Society Annual Research Conference, St. Louis, MO. March 2014

## Conference Presentation

Adla, Rawan, Nizar Al-Holou, and Youssef Bazzi. "Kalman Filter Based Safety Application."

Groh, Carla , and Irva Faber-Bermudez. "Integrating a FQHC Primary Care Clinic within a Mental Health Agency: Opportunities, Challenges and Lessons Learned." American Psychiatric Nurses Association Annual Conference, Indianapolis, IN. 22-25 October 2014

Hu, Hsiao-Lan . "Buddhist-Feminist Social Ethics and Bioethics." Chia-Hwei. "The American Philosophical Association Pacific Division Meetings." San Diego, California, U.S.A. 17-20 April 2014

Koukal, David

