HEALTH
UNIVERSITY OF UTAH

DMRC 2018

Diabetes and Metabolism Research Center

YEARLY NEWSLETTER

In This Issue:

January 2018
Letter from DMRC Co-Directors

We are pleased to introduce this inaugural newsletter of the Diabetes and Metabolism Research Center. We're excited to share the accomplishments, growth, and vision of our exemplary and highly collaborative research programs.

Since launching in 2014, the DMRC has sought to enlarge and coordinate research on the metabolic basis of disease throughout the health sciences center, regardless of department, school, or college. Our researchers apply a broad array of research techniques to study model organisms and clinical and community populations, striving to eradicate the burden of diabetes and other metabolic disorders in Utah and elsewhere. Collectively, DMRC researchers have over $100M in active extramural grants and routinely publish their findings in the highest impact journals. The University of Utah diabetes community is making a difference. Highlights of recent DMRC activities include the following:

RECRUITS. Since 2014, the DMRC has helped bring nine highly successful Principal Investigators to the University of Utah.

DRIVING OUT DIABETES. DMRC investigators are playing a pivotal role in Driving Out Diabetes, a Larry H. Miller Family Wellness Initiative that supports research and outreach efforts centered on diabetes prevention, treatment, and cures.

PILOT AND TRAINING GRANT PROGRAMS. With the support of the Senior Vice President for Health Sciences, philanthropic partners and extramural funding agencies, to date the DMRC has distributed 31 pilot grants and supported the acquisition of three training/educational grants to jumpstart new research activities and educate the next generation of outstanding diabetes and metabolism researchers.

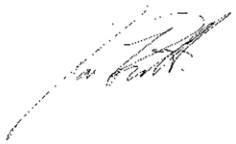
CORE SUPPORT. The DMRC has provided funds for new instruments and grants to produce new technology platforms, helping our metabolism-oriented cores to develop national recognition.

SEMINAR PROGRAMS. The DMRC has hosted 9 external speakers in 2017, most of whom presented at the successful Seminars in Metabolism series.

We're extremely grateful for the tremendous effort from our chief administrator, Bridget Hughes, and our dedicated DMRC researchers. We would not be a successful enterprise without the extraordinary effort of these people. We cannot adequately express how excited we are about the palpable energy and enthusiasm throughout the DMRC community.

Please read further to learn more about the great successes of our exceptional research scientists.

Best regards,



Faculty Recruitment

The DMRC has partnered with the Departments of Medicine (Divisions of Endocrinology and Nephrology), Biochemistry, Nutrition and Integrative Physiology, and Physical Therapy and Athletic Training to recruit exceptional research scientists to our university. These researchers have already secured over $22 million dollars in grants to support their research. We are pleased to introduce our three most recent additions to the DMRC and University of Utah family.

2017

Katsu Funai, PhD

Katsu Funai, PhD, joined the University of Utah in September 2017 as an Assistant Professor in the Department of Physical Therapy & Athletic Training in the College of Health. Dr. Funai completed his PhD at the University of Michigan and Postdoctoral Fellowship at Washington University (St. Louis) before joining East Carolina University as an Assistant Professor. His NIH-funded research program (R01, R03) attempts to understand the influence of the mitochondrial lipidome on muscle energetics, a topic that could have enormous relevance in a number of different disease contexts. His laboratory is located in the Eccles Institute of Human Genetics.

2018

Will Holland, PhD

Will Holland, PhD, will join the Department of Nutrition and Integrative Physiology and the Diabetes and Metabolism Center in February of 2018. Dr. Holland earned his PhD from the University of Utah before moving to UT Southwestern. Following a successful postdoc, he was retained as a tenure-track faculty member, where he got off to a very fast start. His work on the regulatory factors controlling glucose homeostasis are paradigm-shifting and has been recognized by two R01 grants, a JDRF Career Development Award and a JDRF Sponsored Research Agreement. His laboratory will be located in the Eccles Institute of Human Genetics

Mary Playdon, PhD

Dr. Mary Playdon, PhD, will join the Department of Nutrition and Integrative Physiology as an Assistant Professor starting in May of 2018. Dr. Playdon worked as a registered dietitian in Australia before moving to the USA in 2005. After a productive stint as a research dietitian in Colorado, she completed a PhD at Yale and a successful postdoctoral fellowship at the National Cancer Institute. Her work identifying relationships between metabolomic signatures, dietary intake, and cancer outcomes is innovative, important and exciting and is supported by a K99/R00 award. Her research program will be physically located in the Huntsman Cancer Institute.

Other DMRC Recruits Supported to Date

Adam Hughes, PhD, Department of Biochemistry – organelle communication; nutrient sensing; mitochondria quality control; aging

Danny Chou, PhD, Department of Biochemistry - peptide and protein therapeutics for diabetes treatment, chemical biology

Simon Fisher, MD, PhD, Department of Internal Medicine - insulin action, tissue specific cross-talk, complications of diabetes, hormonal counterregulation

Owen Chan, MD, PhD, Department of Internal Medicine - hypothalamic glucose sensing, brain fuel metabolism

Marcus Pezzolesi, PhD, Department of Internal Medicine – genetics of diabetes, diabetes complications, and chronic kidney disease, microRNAs

Scott Summers, PhD, Department of Nutrition and Integrative Physiology – lipid metabolism, lipotoxicity, sphingolipid biology

DRIVING OUT DIABETES

A LARRY H. MILLER FAMILY WELLNESS INITIATIVE

In July, the University of Utah received a $5.29M gift from the Larry H. and Gail Miller Family Foundation to reduce the burden of diabetes in the state of Utah and beyond. The Driving Out Diabetes, a Larry H. Miller Family Wellness Initiative was officially kicked off on November 13 at the University of Utah Hospital. This bold initiative incorporates a novel three-pronged approach to attack diabetes through prevention and outreach, clinical care, and research and training.

This initiative is being led by a leadership team of Angie Fagerlin, PhD, Professor and Chair of the Department of Population Health Sciences, Robin Marcus PhD, PT, Chief Wellness Officer and Professor of Physical Therapy and Athletic Training, and Julie Metos, PhD, MPH, RD, Assistant Professor and Associate Chair of Nutrition and Integrative Physiology in collaboration with Simon Fisher, MD, PhD, Professor of Internal Medicine and Jared Rutter, PhD Professor of Biochemistry.

Specifics of the Driving Out Diabetes, a Larry H. Miller Family Wellness Initiative include the following:

Prevention and Outreach

The Driving Out Diabetes Prevention and Outreach efforts are focused on three areas: the Mobile Health Program, diabetes prevention, and childhood prevention.

Mobile Health Program. The vision of the Mobile Health Program is to create healthier communities by partnering with community organizations to provide health and wellness counseling, education, and screening services to those who otherwise might lack access to quality medical care. These services will be provided inside a 40-foot, specially designed RV that will travel to local communities.

Diabetes Prevention Efforts. The Driving Out Diabetes Initiative diabetes prevention efforts are multi-faceted and include approaches to better identify people with prediabetes, enroll more people in evidenced-based behavioral change programs, and to understand the barriers for people of diverse backgrounds to enrolling in these programs.

Childhood Prevention Efforts. Proper nutrition education in childhood results in up to a 25 percent decrease in future incidence of chronic disease, including diabetes. School-and family-based behavioral change programs can play a key role in changing lifestyles to improve health outcomes. As part of Driving Out Diabetes, the Center for Community Nutrition in the College of Health is offering three new programs geared toward school-aged children and underserved low-income families: Crush Diabetes, Team Thrive, and Food, Movement, and U.

Clinical Care

Medical complications from diabetes are now a leading cause of death in the state of Utah. Uncontrolled diabetes is a leading cause of blindness, kidney failure, and limb amputations and is a major cause of heart disease and stroke. Through the Driving Out Diabetes effort, we have developed two programs to help people with diabetes better manage the disease and to screen people for the earliest signs of diabetes complications.

Discovery, Innovation, and Impact

Investments in research are essential to catalyze discovery and innovation for better prevention, treatments, and eventually cures for diabetes. From top to bottom, all the Driving Out Diabetes programs are being carefully evaluated to assure that our programs are effective and will make lasting impact on our the communities we serve. In addition, in collaboration with the DMRC, the Driving Out Diabetes initiative is seeding new, cutting-edge research to foster young talent, and to train emerging scientists. This past year eight grants were awarded. (See below seed grant section for more information).

For more information on this program, please see the Driving Out Diabetes Program website: https://healthcare.utah.edu/wellness/driving-out-diabetes/

Seed Grants

Since its inception, the DMRC has administered yearly pilot grant programs to distribute funds to meritorious new projects. The ultimate goal of this funding is to help researchers generate preliminary data in support of larger extramural grants. This approach has been very successful. The $532K allocated toward pilot grants in FY2014-FY2016 has been leveraged into greater than $10M in extramural awards. Within this latest year, the DMRC administered two seed grant competitions and participated in the Immunology, Inflammation, and Infectious Diseases seed grant competition. Outcomes of these 2017 programs are listed below.

Type 1 Diabetes Research Pilot Grants

In early 2017, the DMRC held a seed grant competition to support Type 1 Diabetes research. Financial support for this competition came from a mixture of funding sources including donors interested in Type 1 diabetes and SVPHS DMRC funds. Nine applications were received and reviewed in an NIH-style study section. The DMRC granted three $30K awards to the following recipients:

Michelle Litchman, PhD, FNP-BC, FAANP

College of Nursing and Department of Internal Medicine, Nancy Allen, PhD, APRN, College of Nursing, Andrew Wilson, PhD, College of Nursing and Cynthia Berg, PhD, Department of Psychology – Improving Clinical, Behavioral and Psychosocial Type 1 Diabetes Outcomes with an Online Peer Health Intervention: A Pilot Study.

Alex Lin, MD

Owen Chan, PhD, Debra Simmons, MD, Department of Internal Medicine – Propranolol as a Treatment for Impaired Awareness of Hypoglycemia in Type 1 Diabetes.

Dean Tantin, PhD

Department of Pathology – Exploring the transcriptional co-regulatory protein OCA-B as a therapeutic target for Type 1 Diabetes.

Immunology, Inflammation, and Infectious Diseases (III) Initiative Seed Grant Competition

The DMRC also funded a project reviewed through the III initiative, supporting a diabetes-related project on the intersection between lipid metabolism in T-cells and the pathology of insulin resistance. This enabled one of the top scoring proposals from that competition to be funded.

Bhagirath Chaurasia, PhD
Scott Hale, PhD

Bhagirath Chaurasia, PhD, Department of Nutrition and Integrative Physiology, Scott Hale, PhD, Department of Pathology. Role of ceramide accumulation in effector T and Treg cells in development of insulin resistance.

Driving Out Diabetes, A Larry H. Miller Family Wellness Initiative

In partnership with the Driving Out Diabetes effort, the DMRC solicited applications for seed grants, postdoctoral fellowships, and graduate student fellowships in July of 2017. Financial support for this competition came from the Larry H. and Gail Miller Family Foundation and DMRC SVPHS funds. We received 36 applications from 14 departments and 5 colleges. A committee of 15 faculty members reviewed the applications in an NIH-style study section. Eight grants were selected for $50K awards.

Seed Grants

Lisa Cannon-Albright,PhD

Simon Fisher, MD, PhD, Craig Teerlink, PhD, Marcus Pezzolesi, PhD, MPH, Department of Internal Medicine – Identification of Diabetes Predisposition Genes in Utah Families

Marcus Pezzolesi, PhD, MPH

Department of Internal Medicine - An Integrated "Big-Data" Approach to Accelerate Gene Discovery in Diabetic Kidney Disease.

Danny Hung-Chieh Chou,PhD

Department of Biochemistry – Development of a Novel "Smart" Insulin to Treat Diabetes

Claudio Villanueva, PhD

Department of Biochemistry - Development of Next-Generation Oral Glucose Lowering Drugs for the Treatment of Diabetes.

Elissa Ozanne, PhD

Department of Population Health Sciences - Enrollment and Retention in the University of Utah Diabetes Prevention Program: A Qualitative Study

Andrea Wallace, PhD, RN

Kensaku Kawamoto, MD, PhD, MHS, Nathan Ragle, MD, Andrew Wilson, PhD, College of Nursing, Department of Biomedical Informatics, Department of Internal Medicine - Collaborative Goal Setting for Treatment of Diabetes: Facilitating Primary Care Physician Reinforcement

Postdoctoral Fellowships

Santhosh Karanth, PhD

Department of Internal Medicine - Uncovering Hepatic Amino Acid Metabolism Regulation and the Relationship to Diabetes

Mentor: Amnon Schlegel, MD, PhD, Department of Internal Medicine

Dominik Ose, PhD

Department of Population Health Sciences - Diabetes Prevention in Cancer Patients: Prevalence, Patient-Reported Outcomes, and Intervention

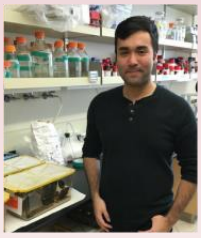
Mentor: Cornelia Ulrich, MS, PhD, Department of Population Health Sciences

Training and Educational Grant and Award Highlights

The eradication of diabetes depends upon training the next-generation of diabetes researchers. The University of Utah has been very effective at obtaining training grants to support the efforts of stellar graduate students and postdoctoral fellows. 2017 awardees include the following:

Metabolism T32

The Interdisciplinary T32 Training Program in Metabolism (PIs: Drs. Simon Fisher and Carl Thummel) trains predoctoral and postdoctoral trainees in all areas of metabolism with a specific focus on the pathophysiology of obesity, diabetes, and diabetes complications. Current trainees include:



Jason Nogueira, PhD, Postdoctoral Trainee

Department of Biochemistry

Mentor: Danny Chou, PhD

Research Project: Hepatoselective Insulin Analogues as Next-generation Insulin to Combat Diabetes

Brittany Collins, PhD, Postdoctoral Trainee

Department of Human Genetics

Mentor: Gabrielle Kardon, PhD

Research Project: The Role of Satellite Cells in Skeletal Muscle Metabolism

Jason Nielson, PhD, Postdoctoral Trainee

Department of Pharmacology and Toxicology

Mentor: Randall Peterson, PhD

Research Project: New ways to generate animal models of mitochondrial disease

Karina Arreguin, Predoctoral Trainee

Department of Pathology

Mentor: Dean Tantin, PhD

Research Project: BRCA1 Controls Cell Metabolism through Regulation of the Transcription Factor Oct1

Jenna Goodrum, Predoctoral Trainee

Department of Biochemistry

Mentor: Adam Hughes, PhD

Research Project: Elucidating a Pathway of Mitochondrial Metabolite Transporter Destruction

Sopha Praggastis, Predoctoral Trainee

Department of Human Genetics

Mentor: Carl Thummel, PhD

Research Project: Metabolic Characterization of the Drosophila Nuclear Receptor E78

Native American Research Internship Program in Diabetes, Obesity, and Metabolism

The Native American Research Internship (NARI) Program in Diabetes, Obesity, and Metabolism provides Native American undergraduate students with an outstanding laboratory or clinically based 10-week research experience working alongside world-class research faculty at the University of Utah. DMRC investigators participate in the NARI program funded by both NIDDK and NHLBI. In 2017 the Boudina, Drummond, Fisher, Raphael, Chou, Mihalopolous, Chan, Summers, and Gibson research groups all took students as part of this program.

Please contact Scott Willie (scott.willie@hsc.utah.edu) if your research group is interested in taking a summer intern in 2018.

Computational Approaches to Diabetes and Metabolism Research T32

The T32 Training Program in Computational Approaches to Diabetes and Metabolism Research (CADMR) (PIs: Drs. Wendy Chapman and Simon Fisher) trains predoctoral and postdoctoral trainees to be leaders in computational and mathematical methods and engage them in the analysis of large data sets involving complex biological problems in diabetes, obesity, and metabolism. Current trainees include:

Katrina Johnson, Predoctoral Trainee

Department of Mathematics

Mentors: Fred Adler, PhD and Ryan O'Connell, PhD

Research Project: Mathematics Models to Provide Further Insight into Adipocyte Dynamics

Cameron Waller, Predoctoral Trainee

Department of Biochemistry

Mentors: Jared Rutter, PhD and Alex Lex, PhD

Research Project: Visual Exploration and Analysis of Metabolic Networks

Vanja Panic, Predoctoral Trainee

Department of Biochemistry

Mentors: Claudio Villanueva, PhD and Julio Facelli, PhD

Research Project: Determining the mechanisms of insulin-independent glucose uptake in brown adipose tissue

Danielle Groat, PhD, Postdoctoral Trainee

Department of Biomedical Informatics

Mentors: Ram Gouripeddi, MS, MBBS and Julio Facelli, PhD, Will Dere, MD

Research Project: Development of a process-workflow module to support translational research.

Rebecca Palu, PhD, Postdoctoral Trainee

Department of Human Genetics

Mentors: Clement Chou, PhD and Aaron Quinlan, PhD

Research Project: Impacts of natural genetic variation on ER stress and metabolic disease

Trainee Awards

Each year the DMRC holds a competition in honor of Paul Shurtleff Hatch and Heidi Hatch Ford to reward a junior scientist who is performing Type 1 diabetes research. In 2017, the Rotary Club also contributed to this competition, allowing us to fund the following two awards:

Candace Reno, PhD,

Department of Internal Medicine

Rotary Award

Mentor: Simon Fisher, MD, PhD

Research Project: Minimizing the Fear of Hypoglycemia

Heejo Kim, MS

Department of Pathology

Hatch Scholar Award

Mentor: Dean Tantin, PhD

Research Project: Oct-1 and OCA-B as potential targets for T1D pathogenesis

Seminars in Metabolism Lecture Series

The Seminars in Metabolism is a weekly lecture series held on Thursdays at 4pm in HSEB that hosts external speakers, research in progress seminars, and student journal clubs. In 2017 we hosted nine external guests.

Upcoming External Seminars in Metabolism Speakers:

January 18 – Matt Hirschey, PhD, Duke University School of Medicine

February 1 – Evan Rosen, MD, PhD, Harvard Medical School

February 22 – David Guertin, PhD, University of Massachusetts Medical School

March 29 – Gary Patti, PhD, Washington University

April 12 – Maya Styner, MD University of North Carolina School of Medicine

2017 External Seminars in Metabolism Speakers:

Chong Shin, PhD, Georgia Tech,

Clara Bien Peek, PhD, Northwestern School of Medicine

Philip Scherer, PhD, UT Southwestern

Renata Belford De Aguiar, MD, PhD, Yale School of Medicine

Ling He, MD, PhD, Johns Hopkins University

Rana Gupta, PhD, UT Southwestern

Andrew Norris, MD, PhD, University of Iowa

Michael Cowley, PhD, MONASH University

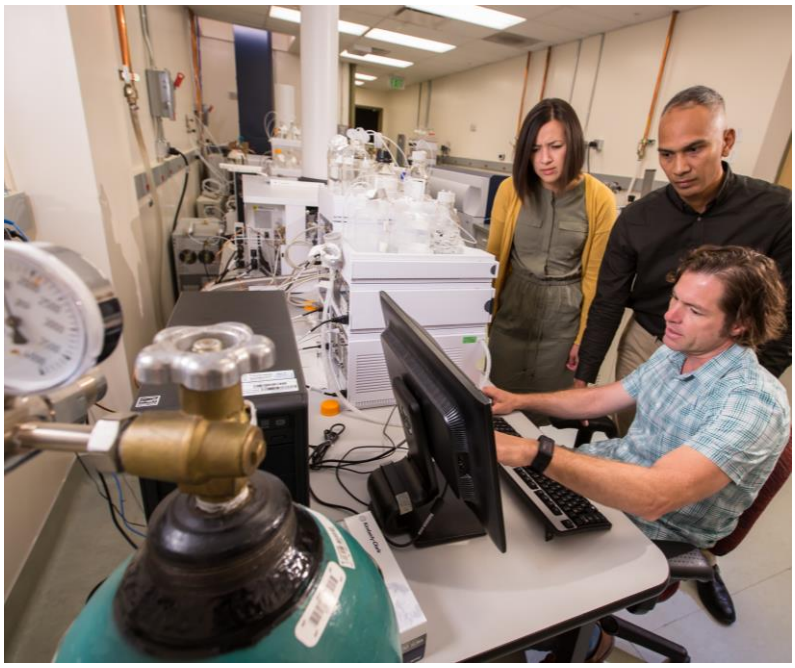
Brett Goodpaster, PhD, Florida Hospital.

The DMRC leadership expresses thanks to Dr. Amnon Schlegel who organized the 2017-2018 SIM series and to Ashley Robertson who coordinated all events. Drs. Katsu Funai and Claudio Villanueva will direct the 2018-2019 SIM series.

Requests for speakers will be distributed in the spring.

Metabolomics Facility

Did you know that an independent laboratory study conducted by Harvard School of Medicine identified the Metabolomics Facility at the University of Utah as the best Metabolomics Facility in reproducibility, price, and turn-around time when compared with multiple other institutions across the country? This unofficial recognition is no doubt due to the terrific leadership of James Cox, PhD and his team of dedicated professionals that run the Metabolomics Facility.



This past year, this facility expanded their services by including flux analysis using a GC-MS based approach and lipidomics analysis using an LC-MS based approach. Both new GC-MS and LC-MS machines were purchased with the help of the DMRC. In FY17 the Metabolomics Core Facility served 76 investigators from the University of Utah and elsewhere.

DMRC investigators can get additional support to use the Metabolomics Facility. The Metabolomics Core Support Program will provide financial support for University of Utah faculty to either:

- Develop new methodology in metabolism that will be used by the broader DMC research community or
- To encourage new research explorations into metabolism that otherwise would not be possible without DMC support.

Find out how to apply at:

https://pulse.utah.edu/site/SVPHSR/Documents/DMRCCoreSupportProgramDescription.pdf

or see the DMRC website.

Advocacy and Inclusion

Claudio Villanueva, PhD, Department of Biochemistry, was a highlighted speaker at the March for Science on March 22, 2017. His passionate speech about the importance of science, why science needs to be funded by national governmental agencies, how it needs to be inclusive, and how we need to continue to train the next generation of scientists sent a powerful message to the audience that we all need to encourage elected officials to increase federally funded support for science.

SACNAS

The 2017 Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) conference took place in Salt Lake City on October 19-21. DMRC investigators, Sihem Boudina, Assistant Professor of Nutrition and Integrative Physiology, Claudio Villanueva, Assistant Professor of Biochemistry and University of Utah SACNAS faculty advisor and Judith Simcox, Postdoctoral Research Associate, Department of Biochemistry all served on the Local Conference Committee to help organize the conference proceedings. With the support of the DMRC, Dr. Villanueva spoke and chaired a session entitled "Emerging Findings in Diabetes, Metabolism, and Obesity" with speakers Carl Thummel, PhD, Professor of Genetics, University of Utah, Rana Gupta, PhD, Assistant Professor of Internal Medicine, UT Southwestern Medical Center and Darleen Sandoval, PhD, Associate Professor of Surgery, University of Michigan Medical School. With the support of the Diversity and Inclusion Committee, College of Health, Dr. Boudina spoke and chaired a session entitled "Mitochondrial Adaptations to Stress" where former University of Utah trainees gave presentations: Oleh Khalimonchuk, PhD, Associate Professor, Redox Biology Center, University of Nebraska-Lincoln and Renata Alambert, PhD, Research Assistant Professor of Internal Medicine University of Iowa College of Medicine. We thank our dedicated investigators for organizing these sessions to encourage the next generation of scientists to pursue careers in diabetes and metabolism research.

• Drs. Claudio Villanueva and Judith Simcox are also featured in a SACNAS news article for being highlighted in Cell Metabolism Voices section "Women in Metabolism: The Next Generation" and its sub-section "Inclusive Science Empowers the Superhero within Us All" inspired by the issue's cover art. These articles accompanied their research publication also published in the same article.

http://sacnas.org/2017/09/19/diversityinclusion-front-and-center-in-cell-metabolism-thanks-to-sacnas-members-dr-villanueva-and-dr-simcox/

• Karrina Areguin, predoctoral trainee in the Tantin Laboratory, Department of Pathology, was highlighted in the Deseret News for her involvement in founding the SACNAS chapter at the University of Utah.

https://www.deseretnews.com/article/900002601/the-best-kept-secret-stem-conference-encourages-latino-native-american-students.html

In the News…

This year, several DMRC investigators were featured in the local and national media:

- Scott Summers, PhD, Department of Nutrition and Integrative Physiology was featured in the March 15 issue of the Atlantic "The Scientist Harnessing 'Toxic Fat.' The article, and an associated news feature on KSL, discussed the influence of his father's battle with diabetes as the motivating factor that drove his research efforts.

  https://www.theatlantic.com/health/archive/2017/03/toxic-fat/518976/

  https://www.ksl.com/?nid=148&sid=46205977

- Claudio Villanueva, PhD, Department of Biochemistry, and his laboratory's work on a new mechanisms driving thermogenesis was featured in Science Daily and Medical News today for their September 5 Cell Metabolism paper "Global analysis of plasma lipids identifies liver-derived acylcarnitines as a fuel source for brown fat thermogenesis".

  https://healthcare.utah.edu/publicaffairs/news/2017/09/brown-fat.php

- Wendy Zhu, PhD Research Assistant Professor of Internal Medicine, ME Hartnett, MD, Professor of Ophthalmology, Dean Li, MD, PhD, Former Professor of Internal Medicine, and Shannon Odelberg, PhD, Research Associate Professor were featured in Science Daily, Medical News Today, and Medical Xpress for the October 23 publication in JCI "Small GTPase ARF6 controls VEGFR2 trafficking and signaling in diabetic retinopathy."

  https://healthcare.utah.edu/publicaffairs/news/2017/10/diabetic-eye.php

- Ted Adams, PhD Adjunct Professor of Internal Medicine, Paul Hopkins, MD, Professor of Internal Medicine, Anna Ibele, MD Assistant Professor of Surgery and other external collaborators were featured on US News & World Report, Reuters, for their study published September 20 in the New England Journal of Medicine "Weight and Metabolic Outcomes 12 Years After Gastric Bypass

  https://healthcare.utah.edu/publicaffairs/news/2017/09/gastric-bypass.php

- Marcus Pezzolesi, PhD, Assistant Professor of Internal Medicine was featured on Fox13 news for his research on genetics of diabetes complications utilizing the Utah Population Database.

  http://fox13now.com/2017/09/20/new-research-from-u-of-u-could-lead-to-prevention-of-diabetic-complications/

Reminder

For all investigators who have a paper accepted for publication, please reach out to Bridget Hughes (bridget.hughes@hsc.utah.edu) or Julie Kiefer (julie.kiefer@hsc.utah.edu) to inquire if the public relations team can put together a press release.

By the Numbers

87 DMRC investigators

8 Colleges Represented

25 Departments Represented

9 DMRC Recruits to date

248 Active Grants Associated with DMRC Investigators

>100M Active Grant Dollars Associated with DMRC Investigators

Communications

For more information – please see the DMRC website:
http://uofuhealth.utah.edu/diabetes-metabolism-research-center/

To subscribe to the Seminars in Metabolism email listserv please notify
Brittany Bellows (brittany.bellows@hsc.utah.edu)

To subscribe to the Diabetes and Metabolism Research Center Faculty listserv please notify
Bridget Hughes (bridget.hughes@hsc.utah.edu)

Contact

Scott Summers, PhD
Professor and Chair, Department of Nutrition and Integrated Physiology
Co-Director, DMRC
scott.a.summers@health.utah.edu

Jared Rutter, PhD
Professor of Biochemistry
Investigator, Howard Hughes Medical Institute
Co-Director, DMRC
rutter@biochem.utah.edu

Bridget Hughes, PhD
Associate Director, Diabetes Strategic Initiatives
Senior Vice President of Health Sciences Research Unit
Phone: 801-585-9304
Email: bridget.hughes@hsc.utah.edu