SCHEDULE OF EVENTS

TUESDAY, APRIL 12

Feng Zhang, PhD
Massachusetts Institute of Technology
“Genome Editing Technologies and Future Prospects”
12:00 -1:00pm
1110 MERF

Trainee Talks
1:30 -2:30pm
2117 MERF

POSTERS
Poster Sessions
Graduate, Medical, and Pharm D Students
2:30 - 4:30pm
MERF Atrium

WEDNESDAY, APRIL 13

Bridging Basic and Clinical Research
Faculty Presentations
12:00 -1:00pm
E331 GH

Trainee Talks
1:30 -2:30pm
2117 MERF

POSTERS
Poster Sessions
Postdoctoral Fellows, Faculty, and Staff
2:30 - 4:30pm
MERF Atrium

THURSDAY, APRIL 14

George Daley, MD, PhD
Harvard Medical School
“Stem Cells in Development and Disease”
12:00 -1:00pm
1110 MERF

AWARDS
Awards Reception
Open to all faculty, staff, and students
1:00 - 2:00pm
MERF Atrium

KEY TO POSTER ENTRIES

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A searchable database of submitted research week poster titles and authors is available through the event website: www.medicine.uiowa.edu/researchweek

Poster competition winners and event photos will be available on the web on Friday, April 15.
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| 1  | **Larry N Agbor** | Stella-Rita Ibeawuchi, Chunyan Hu, Jing Wu, Frederick W Quelle, Curt D Sigmund  
"Smooth Muscle-Specific Expression of a Hypertension-Causing Cullin 3 Mutation (CUL3Δ9) Causes Vascular Dysfunction and Hypertension in Mice" |
| 2  | **Chunyan Hu** | Henry L Keen, Silke Vogel, Frank M Faraci, Curt D Sigmund  
"Adiponectin is Critical for Retinol-Binding Protein 7 (RBP7)-Mediated Endothelial Protective Response in Angiotsensin II-Infused Mice" |
| 3  | **Ryan M Sheehy** | Chandini Reddi, Angela M Schab, Jacqueline E Reilly, Jackson Nteeba, Xuefang Jing  
"The Role of a Novel Tumor Suppressor, NIAM, in Myc-driven B-Cell Malignancies" |
| 4  | **Masashi Mukoda** | Stella-Rita C Ibeawuchi, Chunyan Hu, Frederick W Quelle, Curt D Sigmund  
"RhoBTB1, a Novel PPARγ Target Gene Regulates Vascular Function" |
| 5  | **John J Reho** | Deng-Fu Guo, Lauren Wegman-Points, Gary Pierce, Kamal Rahmouni  
"Increased mTORC1 signaling in the vasculature of diet-induced obese mice and obese humans" |
| 6  | **Masashi Mukoda** | Pimonrat Ketsawatsomkron, Madeliene Stump, Xuebo Liu, Deng F Guo, Ko-Ting Lu  
"Mutation in the PPARG Ligand Binding Domain Impairs the Anti-inflammatory Action of PPARγ" |
| 7  | **Maurisa Aimable** | Thad Sharpe, J Wang, X Li, H Cao, S Gao  
"Direct Conversion of Dental Epithelial Cells to Dental Mesenchymal Cells by Overexpressing Pax9 and Inhibiting microRNA-200a" |
| 8  | **Steven Eliason** | Thad Sharp, Huojun Cao, Nathan Holton, Brad Amendt  
"microRNA-26b-5p Regulates Molar and Incisor Development." |
| 9  | **Ryan Ries** | Wenjie Yu, Steven Eliason, Brad Amendt  
"A new plasmid-based microRNA inhibitor system (PMIS) that inhibits microRNA families in transgenic mice and cells" |
| 10 | **Colin G Wu** | Maria Spies  
"G-quadruplex recognition and remodeling by individual FANCJ helicase molecules" |
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| 11 | Kaylee Lovander  Lacy Barton, Chandler Jensen-Cody, Pamela Geyer  
“Loss of the nuclear lamina protein Otefin results in changes of nuclear architecture in germline stem cells” |
| 12 | Brian Fink  Fan Bai, Liping Yu, William Sivitz  
“Succinate-energized skeletal muscle mitochondrial oxygen flux and ATP production in a mouse model of type 2 diabetes.” |
| 13 | Scott M Ebert  Michael C Dyle, Steven A Bullard, Jason M Dierdorff, Vitor A Lira, Christopher M Adams  
“Identification and Small Molecule Inhibition of an ATF4-dependent Pathway to Age-related Skeletal Muscle Weakness and Atrophy” |
| 14 | Lin Lu  Nicholas Andresen, Thomas Moninger, Lynda Ostedgaard, Michael J Welsh  
“The effect of pH and Ca2+ on expansion of Ariolimax slug mucus.” |
| 15 | Vivian Tomkovicz  Peter Snyder  
“A Single Cytoplasmic Lysine Residue is Sufficient for ENaC Regulation by the E3 Ubiquitin Ligase Nedd4-2” |
| 16 | Jarod Benowitz  Venky Krishnamani, Mike Schneider, Janice Robertson  
“From Non-Ergodic Statistical Mechanics to Clinical Intervention” |
| 17 | Michael D Abramoff  Qiao Hu, Nazli Demirkaya, Yiyue Lou, Frank D Verbraak, Mona K Garvin  
“Retinal Vessel Changes quantified in HIV Patients with HAART Using A Novel Tree-based Measurement” |
“Assessing transcriptional diversity of human and mouse photoreceptor cells by single-cell RNA-Seq” |
| 19 | Wei Zhu  Oliver W Gramlich, Budd A Tucker, Markus H Kuehn  
“iPSC-derived TM cells promote proliferation of primary TM cells” |
| 20 | Mona Garvin  M Saleh Miri, Michael D Abramoff, Young H Kwon, Milan Sonka  
“Automated 3D Segmentation of Bruch’s Membrane Opening from Optical Coherence Tomography Volumes” |
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| 21 | Saif Khan | Gabriel Velez, Jing Yang, Alexander Bassuk, Vinit Mahajan, Lokesh Gakhar  
“Biophysical characterization of the catalytic core of calpain-5” |
| 22 | Kathleen R Markan | Meghan C Naber, Lila Peltekian, Rachel L Kessler, Matthew J Potthoff  
“Determining the Etiology of FGF21 Resistance During Diet Induced Obesity” |
| 23 | Brett A Wagner | Claire M Doskey, Juan Du, Joseph J Cullen, Garry R Buettner  
“Using quantitative redox biology to achieve a more universal global bioenergetic phenotype analysis” |
| 24 | Kyp L Oxley | Brett M Hanson, Laura L Stunz, Gail A Bishop  
“B lymphocyte antigen-presenting cell vaccines are effective in a mouse melanoma model” |
| 25 | Emily Prinz | Susan Fajardo, Kim Spading, Jill Stein  
“Progression free survival in males with metastatic castrate resistant prostate cancer treated with abiraterone acetate or enzalutamide in an academic pharmacist-staffed oncology clinic” |
| 26 | Mark W Chapleau | Rasna Sabharwal, Ramzi N El Accaoui, Robert M Weiss, Melissa K Davis, Francois M Abboud  
“Sympathoinhibitory Drug Rilmenidine Reverses Angiotensin II-induced Hypertension, Left Ventricular (LV) Oxidative Stress and LV Remodeling” |
| 27 | Frank Faraci | T Michael De Silva, Dale Kinzenbaw, Mary Modrick, Lindsey Reinhardt  
“Heterogeneous Impact of ROCK2 on Carotid and Cerebrovascular Function” |
| 28 | Kathryn Lamping | Daniel Nuno  
“The contribution from sphingosine kinase in vascular responses to acetylcholine is modified by dietary fatty acids” |
| 29 | Stephen McGowan | Diann McCoy  
“Glucocorticoids enhance the resemblance between platelet derived growth factor receptor-alpha (PDGFRα)-expressing lung fibroblasts (LF) and beige adipocytes” |
| 30 | Andrew Behunin | Zhan Gao, Hazim El-Haddad, Zhiyong Zhu, Ana Sierra, Ekaterina Subbotina  
“Exercise Inspired Pacing to Improve Cardiovascular Conditioning” |
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| 32 | **Kensuke Tsushima** I Biyi Cheng, Ang Guo, Long-Sheng Song, E Dale Abel  
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| 33 | **Jin-Young Yoon** I Joseph Doerer, Mehdi Haider, Barry London  
“SIRTUINS regulates cardiac sodium channels: a potential therapeutic target for Brugada Syndrome” |
| 34 | **Shubha Murthy** I Juan D Ramirez, Daniel Nuno, Chantal Allamargot, Kathryn Lamping, Isabella M Grumbach  
“CaMKII Inhibition Attenuates Nitric Oxide Production in Endothelial Cells” |
| 35 | **Cole Starkey BS** I Randy Kardon, Matthew Thurtell, Michael Wall, Jan Full, Anna Ketcham  
“Laser Speckle Blood Flow of the Choroid is Significantly Reduced in Patients with Acute Arteritic Anterior Ischemic Optic Neuropathy caused by Giant Cell Arteritis (GCA)” |
| 36 | **Jenna Dietrich** I Jamie Smelser, Ryan Hobbs  
“Evaluation of unfractionated heparin for therapeutic anticoagulation in obese patients” |
| 37 | **Lee Joseph** I Abraham Sonny, Somnath Bose, Prashant Bhave, Michael Giudici, Mary Vaughan-Sarrazin  
“Rhythm Control Over Rate Control Alone for Patients with Acute Decompensated Heart Failure and Atrial Fibrillation or Flutter” |
| 38 | **Alex Mersch** I Jamie Smelser  
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| 39 | **Lee Joseph** I Paul S Chan, Ke Liu, Yunshu Zhou, Steven M Bradley, Miriam Bridget-Zimmerman  
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| 40 | **Heather Schacht Reisinger** I Cassie Cunningham Goedken, Stacey Hockett Sherlock, Kimberly Dukes, Marin Schweizer, Sarah Krein  
“Changing outbreak-response cycles to evidence-based bundles: Implementation of a surgical site infection (SSI) prevention bundle in the Veterans Health Administration.” |
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| 42 | **Rajeshwari Nair** | Eli N Perencevich, Daniel J Diekema, Michihiko Goto, Daniel J Livorsi, Michael E Ohl  
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| 43 | **Florence-Damilola Odufalu** | Michael Edmond  
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| 44 | **Hilary Mosher** | Bruce Alexander, Bonnie Konkowski  
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| 45 | **Denise Wells** | Amey Holmes, Zuhair Ballas  
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| 46 | **Ginny L Ryan** | Rachel P Goossen, Karen M Summers, Michelle Mengeling, Brenda A Booth, James C Torner  
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| 47 | **M Bryant Howren** | Alan J Christensen  
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| 48 | **Katherine Hadlandsmyth** | Mark Vander Weg, Kathleen A Sluka, Keela A Herr, Charles R Clark, Nicolas O Noiseux  
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| 49 | **Danielle Rowan** | Nancee Waterbury, Brian Lund, Robert Shaw, Jason Egge  
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| 50 | **Francis Mawanda** | Kimberly McCoy, Robert Wallace, Thad Abrams  
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| 52 | Brianne Bakken |  
“Implementation of RFID Kit and Tray Automation Technology to Improve Efficiency, Safety and Supply Chain Management in an Academic Medical Center” |
| 53 | Brittany A Bruch | Elizabeth W Amelon, Jamie M Smelser, Janice M Staber, Deanna L McDanel, Douglas E Morgan  
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| 54 | Jessica Dizon | Diana Karkow, Erika Ernst  
“Evaluation of the Impact of Prospective Audit and Feedback as a Component of an Antimicrobial Stewardship Program at an Academic Medical Center” |
| 55 | Ali Goodson | Matthew Cantrell, Brian Lund, Robert Shaw  
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| 56 | Christie Hart | Tami Argo, Mitsi Lizer, Bruce Alexander, Jason Egge  
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| 57 | Scott Kollasch | Matthew Witry, Christine Catney, Stevie Veach, Amy Jackson  
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| 58 | Erica Tolle | William Doucette, Ali Azeez Ali Al Jumali, Scott Egerton, Stevie Veach, Christine Catney  
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| 59 | Lucas Watson | Tami Argo, Bruce Alexander, Jason Egge, Brian Lund  
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| 60 | Ruth Chimenti | Colleen Bouchard, Dani Greiner, Amanda Paulson, Andrew Voss, Rebecca Strabala  
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| 81 | **Sinyoung Kang** | Daisuke Sugiyama, Timothy J Brennan

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| 82 | **Marta Hamity** | Stephanie White, Mark Schmidt, Roxanne Walder, Charles Brennan, Donna Hammond

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| 83 | **Brandt D Uitermarkt** | Sinyoung Kang, Timothy J Brennan

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| 84 | **Mark A Yorek** | Matthew S Yorek, Eric P Davidson, Pieter Poolman, Lawrence J Coppey, Alexander Obrosov

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| 86 | **Levi P Sowers** | T Yin, BJ Rea, A Kuburas, L Teran, S Ma

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| 87 | **Oliver Gramlich** | Wei Zhu, Anthony Burand, James Ankrum, Markus Kuehn

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| 88 | **Laura Dutca** | Danielle Rudd, Victor Robles, Hannah Mercer, Mona Garvin, Michael Anderson

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| 89 | **Ankur Jain** | Gulab Zode, Ramesh B Kasetti, Valerie Buffard, Marc L Humbert, Kevin Bugge

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| 90 | **Deng Fu Guo** | Kamal Rahmouni

“Bardet-Biedl syndrome (BBS) proteins in AgRP neurons are required for energy homeostasis” |
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| 93  | Syed Alam      | Margaret Fuller, Gail IS Harmata, Ali Ghobbeh, Sachi Bharti, Rong Fan  
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| 97  | Runping Wang   | Yanhui Zhang, Yongjun Lu, Michael Z Cicha, Rajan Sah, Mark W Chapleau  
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