

POSTERS

- 1** *Intestinal Lipid Processing, Bile Acid Metabolism, and Pancreatic Islet Function*
Alex Telma, Mei-I Yen, David Nelson, Hubert Peng, Andrew Tu, Chi Liang, Eric Yen Graduate student with Dr. Eric Yen
- 2** *PFOS Impairs Insulin Secretion and Glucose Tolerance During Pregnancy via Reduced cAMP Production in Pancreatic β -Cells*
Allissa Hofmann, Pankaj Yadav, Ruolin Song, Jay Mishra, Sri Dangudubiyam, Sathish Kumar Graduate student with Dr. Sathish Kumar
- 3** *Gonadal mouse fat pad as an alternative site for islets transplantation without any encapsulation materials*
Amar Yeware, Catigan Hedican, Matthew Brown, Jon Odorico, and Jacques Galipeau Researcher with Dr. Jacques Galipeau
- 4** *Dietary isoleucine restriction improves metabolic health in a dose-dependent manner in genetically heterogenous mice*
Amirah Nieves Medina, Michelle Sonsalla, Bailey Knopf, Mariah Calubag, Yang Liu, Ricki Colman, Dudley Lamming Graduate student with Dr. Dudley Lamming
- 5** *Modeling the type-II diabetic environment in engineered heart tissue*
Greenman, A.C., Nelson, L.K., De Lange, W.J., Farrell, E.T., Nelson, N.A., and Ralphe, J.C. Fellow with Dr. John Carter Ralphe
- 6** *Reevaluating the beta-cell GLP-1 receptor in beta-cell independent, metabolic effects of Liraglutide treatment*
Angela C. Olvera, Samuel T. Saghafi, Matthew T. Flowers, Joseph T. Blumer, Arnaldo Henrique de Souza, Riley B. Meyer, Jiayin Tang, Amanjot Kaur Yadev, Dawn B Davis Medical Student with Dr. Dawn Davis
- 7** *Characterizing the effect of individual dietary non-essential amino acid depletion on metabolic health*
Bailey Knopf, Isaac Grunow, Brady Anderson, Tareq Rihawi, Michelle Sonsalla, Reji Babygirija, Mariah Calubag, Yang Liu, Chung-Yang Yeh, Dudley Lamming Graduate student with Dr. Dudley Lamming
- 8** *Mapping Slit2/3 Expression in Intrapancreatic Ganglia*
Bjorn M. Schoff, Matthew R. Wagner, Barak Blum Undergraduate student with Dr. Barak Blum
- 9** *Identifying the Effects of Arginine Depletion on Diet-Induced Metabolic Dysfunction*
Brady Anderson, Bailey Knopf, Isaac Grunow, Tareq Rihawi, Michelle Sonsalla, Reji Babygirija, Mariah Calubag, Yang Liu, Chung-Yang Yeh, and Dudley Lamming Undergraduate student with Dr. Dudley Lamming
- 10** *The Beta Cell "Invisibility Cloak" - Developing Stem Cell Derived Pancreatic Beta Cells that are Protected from the Immune System*
Leavens C, Jurens N, Gumperz J, Baiu D, Chamberlain CS, Kapadia D, Abad Santos E, Palwasha Khan A, Brown M, Sackett SD, Chlebeck P, Tremmel D, Raglin S, Wang X, Huangfu D, Odorico J. Graduate student with Dr. Jon Odorico
- 11** *Metabolic Flexibility and Nitric Oxide Mediated Activation of the Unfolded Protein Response*
Charles Danaheer Lab technician with Dr. John Corbett (MCW)
- 12** *Systemic and β -Cell-Intrinsic Mechanisms of Diabetes in Down Syndrome*
Cyrus R. Sethna, Valentina Lo Sardo, Barak Blum Graduate student with Dr. Barak Blum
- 13** *Use of Islet Vascularized Extracellular Matrix Organoids (IVEO) to Improve Transplantation and Survivability of Islets*
Kapadia D, Tremmel DM, Chamberlain CS, Abad Santos E, Gorski K, Leavens C, Sackett SD, Chlebeck P, Odorico J. Researcher with Dr. Jon Odorico
- 14** *BCAA catabolism regulates brown adipose tissue thermogenesis via heme biosynthesis.*
Dylan J. Duerre, Julia K. Hansen, Steven V John, Annie Jen, Noah Carrillo, Hoang Bui, Yutong Bao, Matias Fabregat, J. Leon Catrow, Li-Yu Chen, Katherine Overmyer, Evgenia Shishkova, Quentinn Pearce, Mark P. Keller, Richard A. Anderson, Vincent L. Cryns, Alan D. Attie, James E. Cox, Joshua J. Coon, Jing Fan, and Andrea Galmozzi Postdoc with Dr. Andrea Galmozzi
- 15** *Investigating Sex-Specific OGT Regulation in Gestational Diabetes*
Elaine Schumacher and Stephanie Olivier-Van Stichelen, PhD Graduate student with Dr. Stephanie Olivier-Van Stichelen (MCW)
- 16** *Re-focussing Attention on Value Added Effects of Telehealth for patients with Diabetes, Hypertension, and Obesity*
Reka Sundaram-Stukel, **Genevieve Boudreau**, Kathy Nguyen, and Dawn B Davis Medical student with UW Comprehensive Diabetes Center
- 17** *Sex- and Strain-Specific Roles of FGF21 in Modulating Metabolic Responses to Isoleucine Restriction in Mice*
Fan Xiao, Isaac Grunow, Grace Zhu, Julia Illiano, Reji Babygirija, Bailey Knopf, Mariah Calubag, Michelle M. Sonsalla, Yang Liu, Chung-Yang Yeh, Amirah Nieves Medina, Dudley Lamming Graduate student with Dr. Dudley Lamming
- 18** *The synergistic impact of resistance training and altered protein diets in sleeve gastrectomy*
Grace Zhu, Luiz Lopez, Leah N. Braucher, Szczepan Olszewski, Julia Illiano, Twinkle Mathew, Samuel Saghafi, Isaac Grunow, Adam R. Konopka, Dawn B. Davis, Dudley W. Lamming, David A. Harris Scientist with Dr. Dudley Lamming
- 19** *Methionine restriction improves metabolic health and has sex-specific benefits for lifespan in HET3 mice*
Grace Zhu, Fan Xiao, Isaac Grunow, Julia Illiano, Benjamin R. Usatinsky, Alexander M. Raskin, and Dudley W. Lamming Scientist with Dr. Dudley Lamming
- 20** *Unraveling the Role of NOX5 in Actin Dynamics and Cell Migration in Diabetic Kidney Disease*
Gwen Heywood, Samantha Richter, Elizabeth Sweeny Graduate Student with Dr. Elizabeth Sweeny (MCW)
- 21** *White and Brown Adipose Tissue Share a Common Fibro-Adipogenic Progenitor Population*
Hoang Bui, Julia Hansen, Andrea Galmozzi Graduate Student with Dr. Andrea Galmozzi

POSTERS

- 22** *Plasma ceramides regulate energy expenditure in brown adipose tissue.*
Isabella James, Gina Wade, Ross Soens, Brian Parks, Amy Cavanagh, Jess Davidson, Thomas Kizzar, James Votava, Daisy Sahoo, Joshua J Coon, and Judith Simcox
 Graduate Student with Dr. Judith Simcox
- 23** *IL-1 mediates a protective transcriptional response in β -cells*
Jacob T. Bartosiak, Polly A. Hansen, Elaine A. Schumacher, Katherine R. Harty, John A. Corbett
 Graduate Student with Dr. John Corbett (MCW)
- 24** *BET bromodomain inhibitors selectively attenuate IL-1 β -induced transcription of NF- κ B targets in β -cells*
Joshua A Nord, Savannah J Makowski, Paul F Sidlowski, John A Corbett, Brian C Smith
 Fellow with Dr. Brian Smith (MCW)
- 25** *PAMP-stimulated cytokine production induces antipathogen response in β -cells*
Katherine R. Harty, Jacob T. Bartosiak, Polly A. Hansen, John A. Corbett
 Graduate Student with Dr. John Corbett (MCW)
- 26** *Development and Characterization of Immunodeficient Mouse Model for Islet Transplantation Studies (NBSGW-RIP-DTR).*
Talerico Kayla M, Chamberlain CS,, Kapadia D, Abad Santos E, Gorski K, Leavens C, Sackett SD, Chlebeck P, Brown M, Zaeem M, Huang L, Odorico J.
 Undergraduate Student with Dr. Jon Odorico
- 27** *O-GlcNAcylation as a nutrient-sensitive regulator of placental growth hormone expression in gestational diabetes mellitus.*
Lilyanna C Massman, Yiwon Cui; Stephanie Olivier-Van Stichelen
 Graduate Student with Dr. Stephanie Olivier-Van Stichelen (MCW)
- 28** *Understanding the Connection Between Down Syndrome and Diabetes: Insights into Insulin Secretion and Glucose Dysregulation*
Mendoza Niemes M., Smith J., Waters B., Sethna C., Blum B.
 Research Intern with Dr. Barak Blum
- 29** *Prior history of dietary amino acid composition epigenetically marks a persistent metabolic signature*
Mariah F. Calubag, Ismail Ademi, Cara L. Green, Spencer A. Haws, Eric Armstrong, Pragyan Misha, Reji Babygirija, Sandra M. Le, Penelope Lialios, Lucia E. Breuer, Chung-Yang Yeh Michelle M. Sonsalla, Yang Liu, Isaac D. Grunow, Diana Verstein, Dylan Duerre, Ryan Matoska, John D. Michael, Andrea Galmozzi, John M. Denu, Dudley W. Lamming
 Graduate Student with Dr. Dudley Lamming
- 30** *Spatial resolution of extraendocrine Slit2/3 in compensatory islet expansion*
Matthew R. Wagner, Bjorn M. Schoff, Nicolas G. Pintozzi, Barak Blum
 Graduate Student with Dr. Barak Blum
- 31** *Early and late-life protein intake have contrasting effects on metabolic health and physical performance*
Michelle Sonsalla, Brenna Virnig, Alexandra Trebil, Mari Cole, Bailey Knopf, Diana Verstein, Amirah Nieves Medina, Nathan Buckley, Madeline Johnson, Reji Babygirija, Isaac Grunow, Dudley W. Lamming
 Graduate Student with Dr. Dudley Lamming
- 32** *Impact of Metabolic Stress on Beta Cell Proliferation in Down Syndrome*
Nicolas G. Pintozzi, Matthew R. Wagner, Cyrus R. Senth, Barak Blum
 Graduate Student with Dr. Barak Blum
- 33** *Optimizing Islet Vascularized Extracellular Matrix Organoids for Enhanced Transplantation Success*
Palak Dhiman, Connie S. Chamberlain, Cattera Leavens, Deep Kapadia, Esau Estrada, James Rolland, Margot Amitrano, Jon Odorico
 Undergraduate Student with Dr. Jon Odorico
- 34** *You BETcha: The Role of BET Bromodomains in Macrophage Inflammatory Response*
Paul F.W. Sidlowski, Joshua A. Nord, Brian C. Smith
 Graduate Student with Dr. Brian Smith (MCW)
- 35** *Clinical Insights on Staging Type 2 Diabetes for Explaining Economic Cost Burden*
Reka Sundaram-Stukel, Kathy Nguyen, Genevieve Boudreau, and Dawn Davis
 Fellow with UW Comprehensive Diabetes Center
- 36** *Low Protein Diet Potentiates the Effects of Vertical Sleeve Gastrectomy*
Samuel Saghafi, Molly Mulcahy, Grace Zhu, Julia Illiano, Ryan Marshall, Matthew Flowers, David Harris, Dawn Davis
 Graduate Student with Dr. Dawn Davis
- 37** *Sex-Specific Differences in Healthy and Gestational Diabetes Mellitus Placental Proteins*
Sarai Luna; Stephanie Olivier-Van Stichelen
 Researcher with Dr. Stephanie Olivier-Van Stichelen (MCW)
- 38** *Improving differentiation efficiency and functional maturation of human induced pluripotent stem cell-derived islets via epigenetic modulation*
Savannah J. Makowski, Joshua A. Nord, Sarah L. Wynia-Smith, and Brian C. Smith
 Research Technician with Dr. Brian Smith (MCW)
- 39** *Isoleucine Restriction Lowers Plasma LDL-cholesterol through LDLR in Mice*
Yang Liu, Shelly Sonsalla, Yang Yeh, Dudley Lamming, Brian Parks
 Graduate Student with Dr. Dudley Lamming
- 40** *A diet-drug interaction reveals hepatic mTORC1 to mediate diet-induced FGF21 expression and energy expenditure*
Chung-Yang Yeh, Lucas Chini, Isaac Freichels, Lexie Borgelt, Huixian Qiu, Brynn Vogt, Alyssa Clark, Ted Wong, Heidi Pak, Reji Babygirija, Michelle M. Sonsalla, Michaela Trautman, Mariah F. Calubag, Yang Liu, Fan Xiao, Bailey Knopf, Isaac Grunow, Teresa Liu, Cara L. Green, and Dudley W. Lamming
 Postdoc with Dr. Dudley Lamming
- 41** *PEPCK regulates adipose tissue energy balance and lipid homeostasis*
Y. Bao, J. Hansen, L.Y. Chen, K. Overmyer, M. J. Merrins, J.J. Coon, A. Galmozzi
 Graduate Student with Dr. Andrea Galmozzi