

Curriculum Vitae
University of Alabama at Birmingham
School of Medicine Faculty

Date: 09/28/2018

Personal information

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Rank/title

Rank: Associate Professor
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Education

1998-2002 Indiana University, Bloomington, Indiana
B.S. Biochemistry, minor in Biology

Graduate Education

2005-2009 Indiana University, Indianapolis, Indiana
Ph.D. Biochemistry and Molecular Biology
Concentration: Diabetes and Obesity
Thesis: Membrane Cholesterol Balance in Exercise and Insulin Resistance

Post-Doctoral Training

2009 - 2011 Post-doctoral Fellow, Div. of Endocrinology, Department of Medicine, University of Cincinnati, Metabolic Diseases Institute
Mentor: Matthias Tschöp

2011 - 2013 Post-doctoral Fellow, Div. of Endocrinology, Department of Medicine, University of Cincinnati, Metabolic Diseases Institute
Mentor: Randy Seeley

Faculty Appointments

2018 Associate Professor of Medicine
Department of Medicine - Endocrinology, Diabetes & Metabolism
Comprehensive Diabetes Center
University of Alabama at Birmingham

2013 - 2018 Assistant Professor of Medicine
Department of Medicine - Endocrinology, Diabetes & Metabolism
Comprehensive Diabetes Center
University of Alabama at Birmingham

2013 Research Assistant Professor, Division of Endocrinology, Department of Medicine, University of Cincinnati, Metabolic Diseases Institute

Awards/honors

2018	The American Society for Nutrition's Bio-Serv Award in Experimental Animal Nutrition
2017	Pittman Scholar in the UAB School of Medicine
2016	ADA 76 th Scientific Sessions, President's Oral Session - Glucagon Stimulates Energy Expenditure and Reduces Obesity via Hepatic Farnesoid X Receptor in Mice.
2016	Nominee - Helmholtz Young Investigator Diabetes Award
2016	UAB-CFAR Early Career Investigator Award
2014	Paper of the Year – Treatment with Fibroblast Growth Factor 21 or Exendin-4 rescues leptin sensitivity in diet induced obese mice.
2013	Early Investigator Award. Cincinnati Diabetes and Obesity Center
2007	Jack Davis Award - Department of Biochemistry and Molecular Biology, Indiana University School of Medicine
2001	Dean's List, Indiana University, Bloomington, Indiana

Professional societies:

2011 - Present	The Obesity Society
2013 - Present	The American Diabetes Association - Abstract Reviewer since 2014
2017 - Present	The American Society for Nutrition

Memberships:**Councils and committees:**

2017	ADA Scientific Sessions Metabolism, In Vivo (Animals) Sessions Subcommittee
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Ad Hoc study section reviewer:

2015	Washington University DRC Pilot and Feasibility
2015	Diabetes UK, Harry Keen Intermediate Clinical Fellowship
2017	NIH - Integrative Physiology of Obesity and Diabetes (IPOD)
2017	NIH - ZRG1 IDM-T 02 M: Topics in Mechanisms of Bacterial Virulence and Pathogenesis
2018	NIH-NIDDK: Mouse Metabolic Phenotyping Centers (MMPC) Funding Program
2018	NC Diabetes Research Collaborative Pilot Grants
2018	NIH - Integrative Physiology of Obesity and Diabetes (IPOD)

Standing study section reviewer:

2018-2021	American Diabetes Association Grant Review Committee
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University activities:

2015 - Present	UAB, Dept. of Med. Division of Endocrinology Website Planning Committee
2015 - Present	UAB, Dept. of Med. Peer Mentorship Program Steering Committee and Peer Mentor
2017 - Present	UAB, Dept. of Med. Peer Mentorship Program, co-Director
2016 - 2017	UAB Faculty Senate, Alternate Senator and Faculty Liaison
2017 - Present	UAB Faculty Senate, Senator and Faculty Liaison -Research and Faculty Development Committee -University Athletics Advisory Committee
2017 - Present	Search committee member for the UAB, Nutrition and Obesity Research Center Director
2017 - Present	School of Medicine representative to the Graduate Curriculum Committee

University center memberships:

2013 - Present	Member Scientist, UAB Comprehensive Diabetes Center
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2013 - Present Associate Scientist, UAB Nutrition Obesity Research Center
2014 - Present Associate Scientist, UAB Center for Exercise Medicine
2015 - Present Member Scientist, UAB Center for AIDS Research

Editorial memberships:

2011 - Present Review Editor, Frontiers in Systems and Translational Endocrinology
2014 - Present Consulting Editor, Molecular Metabolism
2014 - Present Review Editor, Frontiers in Neuroenergetics, Nutrition and Brain Health
2017 - Present Review Editor, Frontiers in Cellular Endocrinology

Ad Hoc journal reviewer:

Diabetes
Diabetologia
Molecular Metabolism
PloS One
BMC Nutrition
European Journal of Endocrinology
Biological Psychiatry
International Journal of Obesity
British Journal of Pharmacology
Obesity

Major research interests:

My research focuses on uncovering novel mechanisms underlying non-canonical glucagon biology, gut nutrient sensing, and neuroendocrine regulation of metabolism to provide potential therapeutics for the treatment of type-2 diabetes and obesity

Teaching experience:

GBS 750 Lecture
GBS 752 Active learning lecture
GBS Mentor – Ms. Shelly Nason
Undergraduate Research Mentor – Ms. Natalie Presedo, Mr. Austin Wynn, Mr. Garrison Veazey, and Ms. Ayse Zengul

Major invited lectures:

2018 Indiana University School of Medicine, Department of Physiology
2018 Eli Lilly and Co. Diabetes and Complications Seminar Series
2018 Novo Nordisk Research Center Indianapolis Research Seminar Series
2018 UAB-HudsonAlpha Center for Genomic Medicine Symposium
2017 Intarcia Research Seminar
2016 Novo Nordisk Research Center Indianapolis Research Seminar Series
2016 4th Annual Helmholtz-Nature Medicine Diabetes Conference, Helmholtz Young Investigator Diabetes Award (HelDi Award) nomination
2015 Novo Nordisk Obesity Research Seminar Series
2014 Helmholtz Center Diabetes Research Seminar Series
2013 Pre-TOS Symposium on Recent Developments in Metabolic Disease
2013 FASEB Science Research Conference on Glucose Transport: Gateway for Metabolic Systems Biology
2013 American Diabetes Association 73rd Scientific Sessions
2013 Cincinnati Diabetes and Obesity Center, Early Investigator Award
2013 University of Alabama at Birmingham, Comp. Diabetes Center
2013 University of Wisconsin, Endocrine Grand Rounds

2012 Institute for Diabetes and Obesity, Helmholtz Center, Munich, Germany
 2012 Eli Lilly and Co. Metabolism Seminar Series
 2011 Oregon Health and Science University, National Primate Research Center
 2011 Indiana University School of Medicine
 2011 Pre-TOS Symposium on Recent Developments in Metabolic Disease
 2011 Helmholtz Center Diabetes Research Symposium
 2011 Swiss Winter Meeting on Ingestive Behaviors

Grants and Fellowships

Ongoing Research Support:

1R01DK112934-01 - Habegger, K (PI) 04/01/2017-03/31/2022

NIDDK Research Project Grant (PARENT R01)

Glucagon Mediated Potentiation of Insulin Sensitivity in Glucose Metabolism

The goal of this study is to investigate interactions of glucagon- and insulin-receptor signaling pathways, well as the tissue(s) of origin and action, in the unexpected insulin-sensitizing effects of glucagon-receptor agonism.

Role: PI

Strategically Focused Obesity Center - Garvey, WT (PI)

04/01/2017-3/31/2022;

AHA

\$217,631

(Current year direct costs, project 1).

UAB Strategically Focused Obesity Center (SFOC): *Intergenerational Transmission of Obesity*

Project 1: *Intergenerational Transmission of Obesity in Murine Models*

The goal of this center-based proposal is to elucidate the role of the epigenetic modifications induced by the uterine environment in the compensatory adaptations to high fat feeding in offspring.

Role: Co-Investigator

R01-DK111483-01A1 - Hunter, CS (PI)

07/01/2017 – 05/31/2022

NIDDK

\$250,000

NIDDK Research Project Grant (PARENT R01)

Revealing LIM Domain Transcriptional Complexes that establish and maintain Beta Cell Mass.

The goal of this study is to dissect the transcriptional complexes mediated by the Ldb1 coregulator that govern the development and expansion of pancreatic islet beta-cells.

Role: Co-Investigator

Completed Research Support:

1K01DK098319 – Habegger, K (PI)

09/01/ 2014 – 08/31/2017

NIDDK Mentored Research Scientist Development Award (K01)

Duodenal nutrient exclusion enhances glucose metabolism via CNS regulation

The goal of this study is to investigate the contribution of duodenal nutrient sensing and hindbrain glucoregulation following duodenal endoluminal barrier sleeves.

Role: PI

UAB Diabetes Research Center, Pilot and Feasibility Program

04/01/2015 – 03/31/2016

Transcriptional Complex Activity During Metabolic Stress

The goal of this study is to elucidate the role of the transcriptional co-regulator, LDB1, in the compensatory adaptations to metabolic stresses (e.g. high fat feeding).

Role: Co-PI

UAB CFAR P&F - Tse HM (PI)

03/01/15 – 02/28/16

UAB Center For AIDS Research (CFAR)

Epigenetic & kinomic analysis of adipose inflammation from anti-retroviral therapy-treated diabetic mice
Collectively

These studies will define novel information regarding the intersection of HIV-infection, anti-retroviral therapy, inflammation, and the development of metabolic complications (i.e. diabetes and obesity). The insights gained from these studies will influence the design of novel anti-diabetic/anti-obesity therapies for the growing population of ART-treated, HIV-positive, metabolically impaired individuals.

Role: Co-Investigator

UAB Diabetes Research Center, Pilot and Feasibility Program 04/01/2014 – 03/31/2015

The Glucagon-FGF21 signaling axis mediates beneficial effects of exercise on HFD induced non-alcoholic fatty liver disease

The goal of this study is to investigate the role of exercise stimulated glucagon and FGF21 secretion in the beneficial effects of exercise on hepatic glucose and lipid metabolism.

Role: PI

1-13-JF-21- Habegger (PI)

01/01/2013 - 08/31/2014

American Diabetes Assoc. Junior Faculty Career Development Award

FGF21 as a mediator of the metabolic actions of glucagon

The goal of this study is to investigate the role of glucagon-stimulated FGF21 in the anti-obesity effects of glucagon-receptor agonism.

This award relinquished early to accept K01 award described above

Role: PI

University of Cincinnati Neuroendocrinology Training Fellowship (2009-2011)

Indiana University Diabetes & Obesity Research Training Program DeVault Fellowship (2007-2008)

Bibliography:

Manuscripts:

46 since 2004 resulting in 2403 citations (Google Scholar, August 2018)

h-index: 24 i10-index: 35

Manuscripts already published:

1. Carr LG, **Habegger K**, Spence J, Ritchotte A, Liu L, Lumeng L, Li TK, and Foroud T. Analyses of Quantitative Trait Loci Contributing to Alcohol Preference in HAD1/LAD1 and HAD2/LAD2 Rats. *Alcohol Clin Exp Res* (11):1710-7, 2003. PMID: 14634485
2. Liang T, **Habegger K**, Spence JP, Foroud T, Ellison JA, Lumeng L, Li TK, Carr LG. Glutathione S-transferase 8-8 expression is lower in alcohol-preferring than in alcohol-nonpreferring rats. *Alcohol Clin Exp Res*. 2004 Nov;28(11):1622-8. PMID:15547447
3. Spence JP, Liang T, **Habegger K**, Carr LG. Effect of polymorphism on expression of the neuropeptide Y gene in inbred alcohol-preferring and -nonpreferring rats. *Neuroscience*. 2005;131(4):871-6. PMID:15749341
4. Carr LG, **Habegger K**, Spence JP, Liu L, Lumeng L, Foroud T. Development of congenic rat strains for alcohol consumption derived from the alcohol-preferring and nonpreferring rats. *Behav Genet*. 2006 Mar; 36(2):285-90. Epub 2006 Feb 10. PMID: 16470346
5. Heppner KM, **Habegger KM**, Day J, Pfluger PT, Perez-Tilve D, Ward B, Gelfanov V, Woods SC, DiMarchi R, Tschöp M. Glucagon regulation of energy metabolism. *Physiol Behav*. 2010 Jul 14;100(5):545-8. Review. PMID: 20381509

6. CNS leptin action modulates immune response and survival in sepsis. *J Neurosci*. 2010 Apr 28;30(17):6036-47. PMID: 20427662
7. Tschöp J, Nogueiras R, Haas-Lockie S, Kasten KR, Castañeda TR, Huber N, Guanciale K, Perez-Tilve D, **Habegger K**, Ottaway N, Woods SC, Oldfield B, Clarke I, Chua S Jr, Farooqi IS, O'Rahilly S, Caldwell CC, Tschöp MH
8. **Habegger KM**, Heppner KM, Geary N, Bartness TJ, DiMarchi R & Tschöp MH. The metabolic actions of glucagon revisited. *Nat Rev Endocrinol*. 2010 Dec;6(12):689-97. Epub 2010 Oct 19. PMID: 20957001
9. Yi CX, **Habegger K**, Chowen JA, Stern J, Tschöp M. A Role for Astrocytes in the Central Control of Metabolism. Review. *Neuroendocrinology*, 2011;93(3):143-9. Epub 2011 Mar 4. PMID: 21372559
10. Bhonagiri P, Pattar GR, **Habegger KM**, McCarthy AM, Tackett L, Elmendorf JS. Evidence Coupling Increased Hexosamine Biosynthesis Pathway Activity to Membrane Cholesterol Toxicity and Cortical Filamentous Actin Derangement Contributing to Cellular Insulin Resistance. *Endocrinology*. 2011 Jun 28. PMID: 21712361
11. Perez-Tilve D, **Habegger KM**, Tschöp MH, Hofmann SM. Neural regulation of cholesterol metabolism. *Curr Opin Lipidol*. 2011 Aug;22(4):283-7. doi:10.1097/MOL.0b013e328348a459. Review. PMID: 21734571
12. Bielohuby M., Stemmer K., Berger J., Ramisch J., Smith K., Holland J., Parks K., Pfluger P.T., **Habegger K. M.**, Tschöp M.H., Seeley R.J., and Bidlingmaier M. Carbohydrate content of post-operative diet influences the effect of vertical sleeve gastrectomy on bodyweight reduction in obese rats. *Obes Surg*. 2012 Jan;22(1):140-51. doi: 10.1007/s11695-011-0528-5. PMID: 219716299
13. **Habegger KM**, Tackett L, Sealls W, Bell LN, Awad MY, Blue E, Gallagher PJ, Sturek M, Alloosh MA, Steinberg H, Considine R, and Elmendorf JS. Fat-induced membrane cholesterol accrual provokes cortical filamentous actin destabilisation and glucose transport dysfunction in skeletal muscle. *Diabetologia*. 2012 February; 55(2): 457–467. doi:10.1007/s00125-011-2334-y Epub 2011 Oct 15. PMID: 22002007
14. **Habegger KM**, Grant E, Pfluger P, Perez-Tilve D, Daugherty A, Bruemmer D, Tschöp M & Hofmann S. Ghrelin receptor deficiency does not affect diet-induced atherosclerosis in low-density lipoprotein receptor-null mice. *Frontiers in Systems and Translational Endocrinology*. epub 2011 Nov 2 2:67. doi: 10.3389/fendo.2011.00067. PMID: 22649381
15. Rediger A, Leonie Piechowski C, **Habegger K**, Grütters A, Krude H, Tschöp MH, Kleinau G, & Biebermann H. MC4R dimerization in the paraventricular nucleus and GHSR/MC3R heterodimerization in the arcuate nucleus: relevance for body weight regulation? *Neuroendocrinology*. 2012;95(4):277-88. doi: 10.1159/000334903. Review. PMID: 22327910
16. Yi CX, Heppner KM, Kirchner H, Tong J, Bielohuby M, Gaylann BD, Müller TD, Bartley E, Davis HW, Zhao Y, Joseph A, Kruthaupt T, Ottaway N, Kabra D, **Habegger KM**, Benoit SC, Bidlingmaier M, Thorner MO, Perez-Tilve D, Tschöp MH, Pfluger PT. The GOAT-Ghrelin System Is Not Essential for Hypoglycemia Prevention during Prolonged Calorie Restriction. *PLoS One*. 2012;7(2):e32100. doi: 10.1371/journal.pone.0032100. PMID: 22363801
17. **Habegger KM**, Hoffman NJ, Ridenour CM, Brozinick JT, Elmendorf JS. 5'-AMP Dependent Protein Kinase Positively Influences the Insulin-Regulated Glucose Transport System in L6 Myotubes via Lowering Membrane Cholesterol. *Endocrinology*. 2012 May;153(5):2130-41. PMID: 22434076
18. Müller TD*, Sullivan LM*, **Habegger KM***, Yi CX, Kabra D, Grant E, Ottaway N, Krishna N, Holland J, Hembree J, Perez-Tilve D, Pfluger PT, DeGuzman MJ, Siladi M, Kraynov V, DiMarchi R, Axelrod DW, Pinkstaff JK & Tschöp MH. Treatment with Fibroblast Growth Factor 21 or Exendin 4 rescues leptin sensitivity in diet induced obese mice. *J Pept Sci*. 2012 Jun;18(6):383-93. doi:10.1002/psc.2408. PMID: 22565812. *co-first authorship. **Selected as manuscript of the year by J Pept Sci.**

19. Nogueiras R, **Habegger K**, Chaudhary N, Finan B, Banks A, Dietrich M, Horvath T, Sinclair D, Pfluger P, & Tschoep M. Sirtuin 1 and Sirtuin 3: Physiological modulators of Metabolism. *Physiological Reviews*. *Physiol Rev*. 2012 Jul;92(3):1479-514. PMID: 22811431
20. Kirchner H, Fischer A, Abplanalp W, Ottaway N, Hembree J, Müller TD, Hofmann S, Spranger J, Perez-Tilve D, Pfluger PT, Tschöp M, & **Habegger KM**. Caloric restriction chronically impairs energy metabolism programming in mice. *Diabetes*. 2012 Nov;61(11):2734-42. doi: 10.2337/db11-1621 PMID: 22787140
21. Heppner KM, Chaudhary N, Müller TD, Kirchner H, **Habegger KM**, Ottaway N, Smiley DL, Dimarchi R, Hofmann SM, Woods SC, Sivertsen B, Holst B, Pfluger PT, Perez-Tilve D, Tschöp MH. Acylation Type Determines Ghrelin's Effects on Energy Homeostasis in Rodents. *Endocrinology*. 2012 Oct;153(10):4687-95. PMID: 22865372
22. **Habegger KM**, Matzke D, Ottaway N, Hembree J, Holland J, Raver C, Mansfeld J, Müller TD, Perez-Tilve D, Pfluger PT, Lee SJ, Diaz-Meco M, Moscat J, Tschöp MH, and Hofmann SM. Role of adipose and hepatic atypical Protein Kinase C-lambda (PKC-λ) in the development of obesity and glucose intolerance. *Adipocyte*. 2012 Oct 1;1(4):203-214. PMID: 23700535
23. Finan B, Yang B, Ottaway N, Stemmer K, Müller TD, Yi CX, **Habegger KM**, Schriever SC, García-Cáceres C, Kabra DG, Hembree J, Holland J, Raver C, Seeley RJ, Hans W, Irmier M, Beckers J, de Angelis MH, Tiano JP, Mauvais-Jarvis F, Perez-Tilve D, Pfluger P, Zhang L, Gelfanov V, Dimarchi RD, Tschöp MH. Targeted estrogen delivery with Glucagon-like Peptide-1 amplifies metabolic benefits without toxicity. *Nat Med*. 2012 Dec 6;18(12):1847-56. doi: 10.1038/nm.3009. PMID:23142820
24. Müller TD, Lee SJ, Jastroch M, Kabra D, Stemmer K, Aichler M, Abplanalp W, Ananthakrishnan G, Bhardwaj N, Collins S, Divanovic S, Ende M, Finan B, Gao Y, **Habegger KM**, Hembree J, Heppner KM, Hofmann S, Kuchler D, Kutschke M, Krishna R, Lehti M, Oelkrug R, Ottaway N, Perez-Tilve D, Raver C, Walch AK, Schriever S, Speakman J, Tseng YH, Diaz-Meco M, Pfluger PT, Moscat J, & Tschöp MH. p62 links beta-adrenergic input with mitochondrial function. *J Clin Invest*. 2013 Jan 2;123(1):469-78. doi: 10.1172/JCI64209. PMID: 23257354
25. **Habegger K.M.**, Stemmer K, Cheng C, Mueller TD, Heppner KM, Ottaway N., Holland J, Hembree JL, Smiley D, Vasily G, Krishna R, Arafat A, Konkar A, Belli S, Kapps M, Woods SC, Hofmann SM, D'Alessio DA, Pfluger PT, Perez-Tilve D, Seeley RJ, Konishi M, Itoh N, Kharitononkov A, Spranger J, DiMarchi RD, & Tschöp MH Fibroblast Growth Factor 21 Mediates Specific Glucagon Actions. *Diabetes*. 2013 May;62(5):1453-63. doi: 10.2337/db12-1116. PMID: 23305646
26. Müller TD, Müller A, Yi C-X, **Habegger KM**, Meyer CW, Gaylinn BD, Finan B, Heppner KM, Trivedi C, Bielohuby M, Abplanalp W, Meyer F, Piechowski CL Pratzka J, Stemmer K, Holland J, Hembree J, Bhardwaj N, Raver C, Ottaway N, Krishna R, Sah R, Sallee FR, Woods SC, Perez-Tilve D, Bidlingmaier M, Thorner MO, Krude H, Smiley D, DiMarchi RD, Hofmann S, Pfluger PT, Kleinau G, Bienermann H, & Tschöp MH. The orphan receptor GPR83 regulates systemic energy metabolism via ghrelin-dependent and-independent mechanisms. *Nat Commun*. 2013 Jun 7;4:1968. doi: 10.1038/ncomms2968. PMID: 23744028
27. **Habegger KM**, Kirchner H, Yi CX, Heppner KM, Sweeney D, Ottaway N, Holland J, Amburgy S, Raver C, Krishna R, Müller TD, Perez-Tilve D, Pfluger PT, Obici S, DiMarchi RD, D'Alessio DA, Seeley RJ, & Tschöp MH. Glucagon-like peptide-1 Receptor agonism improves Adjustable Gastric Banding in rats. *Diabetes*. 2013 Sep;62(9):3261-7. doi: 10.2337/db13-0117. PMID: 23775764
28. Heppner KM, Piechowski CL, Müller A, Ottaway N, Sisley S, Smiley DL, **Habegger KM**, Pfluger PT, DiMarchi D, Biebermann H, Tschöp MH, Sandoval DA, Perez-Tilve D. Both acyl and des-acyl ghrelin regulate adiposity and glucose metabolism via CNS ghrelin receptors. *Diabetes* 2013 Sep 23. [Epub ahead of print] PMID: 24062249
29. Lehti M, Donelan E, Abplanalp W, Al-Massadi O, **Habegger K**, Weber J, Röss C, Mansfeld J, Somvanshi S, Trivedi C, Keuper M, Ograjsek T, Striessnigg C, Cucuruz S, Pfluger PT, Krishna R, Gordon SM, Silva RA, Luquet S, Castel J, Martinez S, D'Alessio D, Davidson WS, Hofmann SM. High-density

lipoprotein maintains skeletal muscle function by modulating cellular respiration in mice. *Circulation* 2013 Oct 29. [Epub ahead of print] PMID: 24170386

30. **Habegger KM**, Al Massadi O, Heppner KM, Guo Y, Lehti M, Berger J, Holland J, Ottaway N, Amburgy S, Raver C, Perez-Tilve D, Pfluger PT, Seeley RJ, & Tschöp MH. Duodenal endoluminal barrier stimulates Glucagon-like Peptide 1 secretion, improves body weight and enhances glucose homeostasis. *Gut* 2014 Aug;63(8):1238-46. doi: 10.1136/gutjnl-2013-304583. PMID: 24107591
31. Finan B, Ma T, Ottaway N, Müller TD, **Habegger KM**, Heppner KM, Kirchner H, Holland J, Hembree J, Raver C, Lockie SH, Smiley DL, Gelfanov V, Yang B, Hofmann S, Bruemmer D, Drucker DJ, Pfluger PT, Perez-Tilve D, Gidda J, Vignati L, Zhang L, Hauptman JB, Lau M, Brecheisen M, Uhles S, Riboulet W, Hainaut E, Sebokova E, Conde-Knape K, Konkar A, Dimarchi RD, Tschöp MH. Unimolecular dual incretins maximize metabolic benefits in rodents, monkeys, and humans. *Sci Transl Med.* 2013 Oct 30;5(209):209ra151. doi: 10.1126/scitranslmed.3007218. PMID: 24174327
32. **Habegger KM**, Heppner KM, Amburgy SE, Ottaway N, Holland J, Raver C, Bartley E, Müller TD, Pfluger PT, Berger J, Toure M, Benoit SC, Dimarchi RD, Perez-Tilve D, D'Alessio DA, Seeley RJ, Tschöp MH. GLP-1R responsiveness predicts individual gastric bypass efficacy on glucose tolerance in rats. *Diabetes.* 2014 Feb;63(2):505-13. doi: 10.2337/db13-0511. PMID: 24186863
33. Hoffman NJ, Penque BA, **Habegger KM**, Sealls W, Tackett L, Elmendorf JS. Chromium enhances insulin responsiveness via AMPK. *J Nutr Biochem.* 2014 May;25(5):565-72. doi: 10.1016/j.jnutbio.2014.01.007. Epub 2014 Feb 20. PMID: 24725432
34. Finan B, Yang B, Ottaway N, Smiley DL, Ma T, Clemmensen C, Chabenne J, Zhang L, **Habegger KM**, Fischer K, Campbell JE, Sandoval D, Seeley RJ, Bleicher K, Uhles S, Riboulet W, Funk J, Hertel C, Belli S, Sebokova E, Conde-Knape K, Konkar A, Drucker DJ, Gelfanov V, Pfluger PT, Müller TD, Perez-Tilve D, DiMarchi RD, Tschöp MH. A rationally designed monomeric peptide triagonist corrects obesity and diabetes in rodents. *Nat Med.* 2014 Dec 8. doi: 10.1038/nm.3761. PMID: 25485909
35. Müller TD, Nogueiras R, Andermann ML, Andrews ZB, Anker SD, Argente J, Batterham RL, Benoit SC, Bowers CY, Broglio F, Casanueva FF, D'Alessio D, Depoortere I, Geliebter A, Ghigo E, Cole PA, Cowley M, Cummings DE, Dagher A, Diano S, Dickson SL, Diéguez C, Granata R, Grill HJ, Grove K, **Habegger KM**, Heppner K, Heiman ML, Holsen L, Holst B, Inui A, Jansson JO, Kirchner H, Korbonits M, Laferrère B, LeRoux CW, Lopez M, Morin S, Nakazato M, Nass R, Perez-Tilve D, Pfluger PT, Schwartz TW, Seeley RJ, Sleeman M, Sun Y, Sussel L, Tong J, Thorner MO, van der Lely AJ, van der Ploeg LH, Zigman JM, Kojima M, Kangawa K, Smith RG, Horvath T, Tschöp MH. Ghrelin. *Mol Metab.* 2015 Mar 21;4(6):437-60. doi: 10.1016/j.molmet.2015.03.005. eCollection 2015 Jun. Review. PMID:26042199
36. Stemmer K, Zani F, **Habegger KM**, Neff C, Kotzbeck P, Bauer M, Yalamanchilli S, Azad A, Lehti M, Martins PJ, Müller TD, Pfluger PT, Seeley RJ. FGF21 is not required for glucose homeostasis, ketosis or tumour suppression associated with ketogenic diets in mice. *Diabetologia.* 2015 Oct;58(10):2414-23. doi: 10.1007/s00125-015-3668-7. Epub 2015 Jun 23. PMID:26099854
37. Loyd C, Magrisso IJ, Haas M, Balusu S, Krishna R, Itoh N, Sandoval DA, Perez-Tilve D, Obici S, & **Habegger KM**. Fibroblast growth factor 21 mediates the beneficial effects of exercise on diet-induced glucose intolerance. *J Appl Physiol (1985).* 2016 Sep 1;121(3):687-98. doi: 10.1152/jappphysiol.00456.2016. PMID:27445299
38. Sánchez-Garrido MA, **Habegger KM**, Clemmensen C, Holleman C, Müller TD, Perez-Tilve D, Li P, Agrawal AS, Finan B, Drucker DJ, Tschöp MH, DiMarchi RD, Kharitonov A. Fibroblast activation protein (FAP) as a novel metabolic target. *Mol Metab.* 2016 Jul 16;5(10):1015-24. doi: 10.1016/j.molmet.2016.07.003. eCollection 2016 Oct. PMID:27689014
39. Finan B, Clemmensen C, Zhu Z, Stemmer K, Gauthier K, Müller L, De Angelis M, Moreth K, Neff F, Perez-Tilve D, Fischer K, Lutter D, Sánchez-Garrido MA, Liu P, Tuckermann J, Malehmir M, Healy ME, Weber A, Heikenwalder M, Jastroch M, Kleinert M, Jall S, Brandt S, Flamant F, Schramm KW, Biebermann H, Döring Y, Weber C, **Habegger KM**, Keuper M, Gelfanov V, Liu F, Köhrle J, Rozman J,

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Poster abstracts:

1. Antiretroviral therapy potentiates high-fat diet induced obesity and glucose intolerance in mice. Pepin ME, Padgett LE, McDowell RE, Burg AR, Brahma MR, Holleman C, Kim T, Crossman D, Tse HM, Wende AR, & **Habegger KM**. 2016 ADA scientific sessions
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3. Ren G, Kim T, Young ME, Atigadda VR, Muccio D, **Habegger KM**, Kim JA. A Novel Class of Rexinoid, UAB126, Ameliorates High-Fat Diet-induced Obesity and Insulin Resistance through FGF-21-Dependent and-Independent Mechanisms in Mice. 2016 ADA scientific sessions
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2. Bethea M, Liu Y, Wade A, Mullen R, Behringer R, Dimarchi R, **Habegger KM**, Hunter CS Lhx1 Is Required for Beta-Cell Function via Regulation of GLP-1 Receptor Expression. 2017 ADA scientific sessions
3. Bethea M, Liu Y, Wade A, Mullen R, Behringer R, Dimarchi R, **Habegger KM**, Hunter CS Lhx1 Is Required for Beta-Cell Function via Regulation of GLP-1 Receptor Expression. 2017 Experimental Biology scientific sessions
4. Kim T, Loyd CL, Holleman CM, Young M, DiMarchi RD, Perez-Tilve D, **Habegger KM**. Glucagon stimulates energy expenditure and reduces obesity via hepatic Farnesoid X Receptor in mice (ADA 2016). * *Selected Presentation during President's Oral Session*
5. Kim T, Loyd CL, Holleman CM, Arble D, Ottaway N, Chabenne J, Sandoval D, Drucker DJ, DiMarchi RD, Perez-Tilve D, **Habegger KM**. Glucagon-receptor signaling enhances insulin sensitivity in rodents (ADA 2016). * *Selected for Oral Presentation*
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