

## CURRICULUM VITAE

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List of complete references: [Here](#)

Google Scholar Site: [Here](#)

Google Scholar h-index: 52

Google Scholar i10-index: 90

Google Scholar All Citations: >10,000

Web of Science h-index 45

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### **Education and Training:**

2000-2001 Post-doctoral work at Vanderbilt University  
Mentor: Dr. Mac Rae F. Linton,  
"The recycling of apoE in macrophages: influence of HDL and apolipoprotein AI"

1998-2000 Post-doctoral work at Tokyo University  
Mentor: Dr. Hitoshi Shimano  
"Impact of obesity on lipoprotein metabolism and atherogenesis"

1994-1998 Graduate Work at Vanderbilt University, Nashville, Tennessee (PhD, Pathology)  
Mentor: Dr. Sergio Fazio  
"Low levels of macrophage-derived apoE protect against atherosclerotic lesion formation"

1990-1994 Tennessee Technological University, Cookeville, Tennessee (BS, Cell Biology)

1989-1990 Calvin College, Grand Rapids, Michigan

### **Academic Appointments:**

2017-present Cornelius Vanderbilt Professor of Molecular Physiology & Biophysics and Medicine, VU

2015-present Professor of Molecular Physiology & Biophysics and Medicine, VU

2014-present Research Health Scientist, VA at Tennessee Valley Health System

2009-present Associate Professor of Molecular Physiology & Biophysics and Medicine, VUMC

2003-2009 Assistant Professor of Molecular Physiology & Biophysics and Medicine, VUMC  
2001-2003 Research Assistant Professor of Medicine, Division of Cardiovascular Medicine, VUMC

### **Leadership Positions at Vanderbilt:**

2017-present Associate Dean for Faculty, VU Basic Sciences  
2016-2021 Faculty Head of Murray House – Martha Ingram Commons First Year Student Dorm  
2016-present Co-Director, Early Career Investigator Development Program, Vanderbilt SOM  
2012-present Director, Academy of Investigators Career Development Program for DDRC  
2012-2013 Chair, Women on Track Steering Committee  
2011-present Co-Leader of In Vivo Metabolism Regulation and Obesity Research Area, Vanderbilt Diabetes Research Center  
2010-present Program Director, Gastrointestinal Physiology, Obesity, and Metabolism, Vanderbilt Digestive Diseases Research Center (DDRC)  
2010-2016 Director of Graduate Studies, MP&B graduate program

### **Honors and Awards:**

2017-present Cornelius Vanderbilt Endowed Chair  
2014 Student Invited Plenary Lecture Speaker for Rosalind Franklin University's All School Research Consortium  
2012-2017 American Heart Association Established Investigator Award  
2010 Vanderbilt MPB Department Graduate Education Service Award  
2010 Featured in American Diabetes Association *Forefront* magazine  
2008 The Obesity Society's Annual Scientific Meeting, abstract selected for presentation during Plenary Oral Abstract Presentations Session (only 7 of 1000 submitted abstracts chosen)  
2008 *NIH Workshop on the Establishment, Maintenance, and Turnover of Fat Depots* travel award  
2007-2011 American Diabetes Association Career Development Award  
2006-2008 Vanderbilt Digestive Diseases Research Center Young Investigator Award  
2004-2006 American Diabetes Association Junior Faculty Award  
2003-2006 American Heart Association Scientist Development Grant  
2002-2004 Vanderbilt Clinical Nutrition Research Unit Young Investigator Award

### **Professional and Leadership Development and Training**

2019 Participant, Unconscious Bias Training, 1-day course with Howard Ross  
2019 Participant, Training in Crucial Conversations, 2-day course  
2019 Participant, Training in reporting of sexual misconduct  
2018 Participant, Culturally Aware Mentor training, 2-day course  
2018 Participant, The Business of VU, 10-session course  
2017-2018 Participant, Vanderbilt Academic Leadership Program, 8-session course  
2016-2017 Participant, 22<sup>nd</sup> class of the Hedwig van Ameringen Executive Leadership in Academic Medicine ([ELAM](#)) Program for Women, 3-week course  
2010 Participant, AAMC Women in Medicine Poster Session  
2007 Participant, AAMC Women in Medicine Poster Session  
2005 Participant, National Early Career Women Faculty Professional Development Seminar – hosted by Association of American Medical Colleges (AAMC)  
2004-2005 Participant, Leadership Development for Junior Faculty Program - VUMC

### **Professional Memberships**

2019-present Member, International Biolron Society  
2016-present Member, American Society for Nutrition  
2014-present Member, American Association of Immunologists  
2008-present Fellow, American Heart Association

2008-present Member, The Obesity Society  
 2008-2011 Member, Society for Leukocyte Biology  
 2007-present Member, American Physiological Society  
 2006-present Member, Digestive Diseases Research Center, VUMC  
 2003-present Member, American Diabetes Association  
 2002-present Member, American Heart Association, Atherosclerosis Thrombosis and Vascular Biology Council  
 2002-present Member, Vanderbilt Diabetes Center

**Professional Service and Leadership:**

**Service at Vanderbilt**

2020 Member, Discovery Grant Review Committee  
 2019-2020 Member, MPB Faculty Search Committee  
 2019 Organizer, DDRC Annual Conference  
 2018-2019 *Ex Officio* Member, Committee on the Status of Women in the Basic Sciences  
 2018-present Co-Director, Provost's University Faculty Development Committee  
 2018 Participant, Vanderbilt Fellows Research Scholars grant review panel  
 2017-present *Ex Officio* Member, SOM Faculty Appointments and Promotions Committee  
 2017-2018 Member, Provost's Committee to Develop College Halls Programmatic Vision  
 2017-present Member, Strategic Planning Committee for Vanderbilt Institute of Infection, Immunology, and Inflammation (VI4)  
 2016-2017 Member, Chancellor's Strategic Planning Committee for Mental Health and Wellness  
 2016-present Member, Vanderbilt Institutional Animal Care and Use Committee  
 2016-present Member, Advisory Council Vanderbilt Center for Immunobiology  
 2016 Member, VUMC's Strategic Direction Translation Workgroup  
 2016 Member, MSTP Director Recruitment Committee  
 2015-present Advisor to Chancellor, Biomedical Sciences Advisory Committee  
 2014-present Member, Internal Advisory Committee for the Vascular Research and Training grant  
 2013-2015 Vanderbilt Faculty Senate Member (elected by faculty colleagues)  
 2012 Screener, Medical School applications  
 2012 Member, CHGR recruitment committee for molecular geneticist position  
 2011 Member, Vanderbilt Student Scholars Award Committee  
 2010 Member, Vanderbilt Graduate School Enhancing Diversity in Graduate Education Program applicant selection committee  
 2009-present Member, Graduate Education Committee for MP&B  
 2009-2012 Co-director, Vanderbilt Institute for Obesity and Metabolism Pilot & Feasibility Grant Award Committee  
 2008 Member, University Graduate Fellowship Award committee  
 2008-2010 Member, Research Enterprise Communications Advisory Committee: Junior Faculty Representative  
 2008-2011 Member, Graduate Faculty Council  
 2008-2010 Member, Basic Science Strategic Planning Effort – Graduate Education Program  
 2008-2009 Member, Small Animal Advisory Committee  
 2007-2010 Department Representative, Interdisciplinary Graduate Program Executive Committee  
 2006-present Guest, Leadership Development for Junior Faculty Program  
 2006-2013 Founder and organizing committee member, "Women on Track", VUMC  
 2006-2010 Member, Radiation Safety Committee

**Service at National / International Level**

2017 Session Organizer, American Association of Immunologists, "Immune Regulation of Adipose Tissue Homeostasis"  
 2016 Co-Organizer, FASEB conference titled, "Immunological Aspects of Obesity"

2015	Organizer and Moderator for Experimental Biology special President's Plenary Session. "Future of Obesity Research"
2013-2015	External Member, Evaluation and Advisory Committee for Tenure and Promotion and Tsukuba University, Japan
2013-2014	Member, External Advisory Board for University of Kentucky T32 Pre-doc Program
2012-2014	Member, Greater Southeast Affiliate Research Committee of AHA
2012-2014	Member, Women's Leadership Committee for American Heart Association (AHA)
2012	Chair of Southeast Lipid Research Conference
2011	Co-Chair of Southeast Lipid Research Conference
2010	Reviewer, abstracts for The Obesity Society Annual Conference
2009-2012	Reviewer, abstracts for Arteriosclerosis, Thrombosis, and Vascular Biology Annual Conference
2009-2011	Member, ATVB Spring Conference Program Planning Committee
2009	Organizer and Moderator for session titled "Macrophages in Metabolism". Southeast Lipid Research Conference
2009	Moderator for session titled, "Adiponectin: Not Lost in Translation". The Obesity Society Annual Scientific Meeting
2009	Moderator for session titled, "Lipoprotein Metabolism". Arteriosclerosis, Thrombosis, and Vascular Biology Annual Conference
2008	Reviewer of abstracts for Arteriosclerosis, Thrombosis, and Vascular Biology Annual Conference
2007	Organizer and Moderator for session titled "Lipid Metabolism in Diabetes and Obesity". Southeast Lipid Research Conference
2006	Moderator for session titled "Lipid Metabolism and Atherosclerosis". American Heart Association 2006 Scientific Sessions

## Reviewing Activity

Ad hoc for the following journals:

<i>Am. J. Physiol: Endo and Met</i>	<i>J. Immunology</i>
<i>ATVB</i>	<i>J. Investigative Medicine</i>
<i>BBA - Molecular and Cell Biology of Lipids</i>	<i>J. Lipid Research</i>
<i>Blood</i>	<i>J. Leukocyte Biology</i>
<i>BMC Pharmacology</i>	<i>J. Nutrition</i>
<i>Cell Metabolism</i>	<i>J. Vascular Research</i>
<i>Circulation</i>	<i>Metabolism</i>
<i>Circulation Research</i>	<i>Molecular and Cellular Endocrinology</i>
<i>Critical Reviews in Biochem. and Mol. Biol.</i>	<i>Molecular Metabolism</i>
<i>Cytokines</i>	<i>Nature</i>
<i>Diabetes</i>	<i>Nature Communications</i>
<i>Diabetes Research and Clinical Practice</i>	<i>Nature Medicine</i>
<i>Diabetologia</i>	<i>Nature Metabolism</i>
<i>Experimental Biology and Medicine</i>	<i>Nature Reviews Endocrinology</i>
<i>Expert Opinion on Investigational Drugs</i>	<i>Nutrients</i>
<i>FASEB</i>	<i>Nutrition J.</i>
<i>FEBS J.</i>	<i>Nutrition Research</i>
<i>J. American Heart Association</i>	<i>Obesity</i>
<i>J. Applied Physiology</i>	<i>PLoS ONE</i>
<i>J. Biol. Chem.</i>	<i>Proceedings of the Nat. Academy of Science</i>
<i>J. Clin. Endo. and Metabolism</i>	<i>Trends in Endocrinology and Metabolism</i>
<i>J. Clin. Investigation</i>	<i>Science</i>
<i>J. Endocrinology (JOE)</i>	<i>Wound Repair and Regeneration</i>

Ad hoc for the following US grant agencies:

American Diabetes Association  
American Heart Association  
Boston Area Diabetes Endocrinology Res Center  
Diabetes Research Training Center (VUMC)  
Digestive Diseases Research Center (VUMC)  
Institute for Obesity and Metabolism (VUMC)  
Juvenile Diabetes Research Foundation  
Mouse Metabolic Phenotyping Center (VUMC)  
Washington University NORC  
University of Washington DERC

Ad hoc for the following national study sections:

2019 (May) Veteran's Administration Merit Review Committee (ENDA)  
2018 (Dec) Veteran's Administration Merit Review Committee (ENDA)  
2018 (May) NIH SEP 2018/10 HLBP (06) 1  
2014 (Dec) Veteran's Administration Merit Review Committee (ENDA)  
2014 (May) NIH IPOD Study Section  
2014 (Feb) NIH SEP 2014/05 HLBP 1  
2013 (May) NIH SEP (2013/10 HLP1-Workgroup)  
2013 (May) NIH IPOD Study Section  
2013 (March) NIH SEP (ZAG1 ZIJ-9) – CALERIE Dataset  
2012 (Oct) NIH Cellular Aspects of Obesity and Diabetes (CADO) Study Section  
2012 (June) NIH SEP (ZDK1 GRB-N (01))  
2012 (Spring) AHA Lipids 2 Peer Review Study Group  
2011 (June) NIH Cellular Aspects of Obesity and Diabetes (CADO) Study Section  
2011 (Jan) NIH Special Emphasis Panel (zrg1 EMNR-N (02))  
2010 (May) NIH Integrative Physiology of Obesity and Diabetes (IPOD) Study Section

Ad hoc for the following international grant agencies:

Austrian Science Fund  
Diabetes UK  
Dutch Diabetes Research Foundation  
Dutch Digestive Foundation  
Italian Ministry of Health  
Medical Research Council, United Kingdom  
Netherlands Organization for Scientific Research  
Research Grant Council of Hong Kong  
Wellcome Trust UK

Standing member for the following grant agencies:

2019-2020 American Heart Association Established Investigator Award committee  
2015-2017 American Heart Association Mentor Award Committee (Chairperson in 2016 & 2017)  
2014-2018 NIH Integrative Physiology of Obesity and Diabetes (IPOD) Study Section  
2010-2014 American Diabetes Association Research Grant Review Committee  
2008-2009 American Heart Association Greater Southeast Affiliate Grant Committee  
2003-2007 American Heart Association Southeast/OhioValley Chapter Grant Committee

**Editing Activity**

2016-2019 Editorial Board Member, *Diabetes*  
2016 Editor, Adipose Tissue section of *Comprehensive Physiology*

2012-2016 Editorial Board Member, *Arteriosclerosis, Thrombosis and Vascular Biology*

**Service for Private Foundations**

06/27/2019 American Heart Association Fund Raiser in Knoxville  
04/21/2016 American Heart Association Rutherford County Hands on Heart Event  
02/30/2015 American Heart Association Local Leadership Team  
11/13/2014 American Heart Association Chattanooga Research Reception  
05/06/2014 American Heart Association Knoxville Research Reception  
11/21/2013 American Heart Association Chattanooga Research Reception

**Funding:  
Current**

<b>Source of Funding</b>	<b>Grant #</b>	<b>Title of Project</b>	<b>Role</b>
<b>The Obesity Society</b>	No number (Winn)	Role of macrophage iron handling in glucose homeostasis	Sponsor
<b>American Physiologic al Society</b>	No number (Winn)	Role of macrophage iron handling in glucose homeostasis	Sponsor
<b>American Heart Association</b>	20POST35120547 (Caslin)	The Influence of Trained Innate Immunity on Macrophages in Metabolic Disease	Sponsor
<b>American Heart Association</b>	20POST35180180 (Ameke)	Macrophage iron handling and the development of obesity and insulin resistance	Sponsor
<b>NIH</b>	R01DK125210	Adipose Tissue macrophage iron handling	PI
<b>American Heart Association</b>	19IPLOI34760376	Genetic Barcoding to Deconvolute T Cell Clonal Expansion in Obesity	PI
<b>VA</b>	I01 BX002195-05	Immunologic memory to metabolic cycling	PI
<b>American Heart Association Strategically Focused Research Network on Obesity</b>	PI: Niswender	Toward Precision Medicine: Promise of the Glucagon-Like Peptide Receptor	co-PI and Director of Training Program

**Trainees in Laboratory:****Post-doctoral Fellows**

2019-present	Monica Bhanot	Endocrinology Clinical Fellow
2018-present	Nathan Winn	Funded on Molecular Endocrinology Training Program Grant, transitioning to APS fellowship
2018-present	Heather Caslin	Funded on Molecular Endocrinology Training Program Grant, transitioning to AHA Postdoc Fellowship
2017-present	Magdalene Ameka	Funded on AHA Postdoc grant
2017-2018	Reid Bolus	Post-doctoral Fellow at UCSF
2009-2013	Arion Kennedy	Research Assistant Professor funded by K01
2009-2013	Jeb Orr	Currently Captain in military, Research Physiologist
2008-2010	Mike Puglisi	Currently Assist. Prof. at University of Connecticut
2008	Nicholas Khoo (visiting	post-doc from Dr. Freeman's laboratory at U. Pittsburgh)
2004-2006	Saras Viswanathan	Currently Associate Prof. at University of Nebraska

**Doctoral Degree Graduate Students**

2019-present	Julia Pinette	Funded by Hypertension training grant
2019-present	Katrina Volk	Funded by METP training grant
2019-present	Lucinda Pastora	Co-Mentor, Biomedical Engineering Program
2019-present	Kevin Corn	Co-Mentor, Biomedical Engineering Program
2017-present	Matthew Cottam	Funded by METP training grant until 2018
2014-2019	Kristin Peterson	Funded by Pharmacology training grant 2014-2016
2014-2015	Takuya Kikuchi	Visiting student from Tsukuba University, Japan
2013-2018	Merla Hubler	Funded by individual NRSA
2012-2017	Reid Bolus	Current position: Post-doctoral Fellow at UCSF
2010-2015	Andrea Hill	Current position: Postdoctoral Fellow at Diehl lab at Baylor
2009-2013	Emily Anderson	Postdoctoral fellow in Mirmira Lab at IUAUP
2008-2012	Dario Gutierrez	Director, Immuno Biology Lead, Merck Research Laboratories
2005-2009	Bonnie Surmi	High school teacher at Cedar Tree Classical Christian School
2004-2008	Kim Coenen	Currently stay-at-home mother
2004-2007	Alli Antar	Currently Assistant Professor at Baylor

**Master's Degree Graduate Students**

2009-2012	Corey Webb	
2003-2006	Marnie Gruen	Currently lab manager
2003-2006	Michelle Plummer	Currently stay-at-home mother

**Interdisciplinary Graduate Program Rotating Students**

2020	Elysa Wolf	2016	Nathan Klopfenstein
2020	Brittney Covington	2014	Aaram Kumar
2020	Verda Agan	2014	Kristin Peterson
2019	Natalie Favret	2014	Diane Saunders
2019	Jade Stanley	2012	Erica Pruett
2019	Julia Pinneta	2012	Reid Bolus
2018	Arya Nakhe	2012	Starrisa Winters
2018	Jamisha Francis	2012	Jillian Rhoads
2018	Katrina Volk	2011	Laurel Jackson
2017	Laura Winalski	2011	Ramya Chandrasekaran
2017	Neil Sprenkle	2010	Chelsea Cupp
2017	Jen Pilat	2010	Kim Gooding
2017	Matt Cottam	2010	Jordan Feigerle
2016	Shannon Townsend	2009	Devin Baerenwald



2009	Ashley Williams	2007	David Scoville
2009	Emma Sturgill	2007	Leshana Saint-Jean
2009	Mary Black	2007	Jillian Pope
2008	Meghana Rao	2005	Susan Gianni
2008	Alex Panaccione	2004	Omari Bandele
2008	Melissa Martinez	2004	Kelley Posey
2008	Nora Kayton	2004	Sabrina Mitchell
2008	Jennifer Rojas		

### Medical Students

2012	Merla Hubler	MSTP rotation student
2011	Brian Palmisano	MSTP rotation student
2011	Blair Stocks	MSTP rotation student
2009-2010	Jason Chen	Vanderbilt Medical Student, Emphasis Project
2007	Jason Strampe	DRTC Summer Training Program

### Undergraduate Students

2020-present	Arianna Valenti	Vanderbilt Undergraduate Student
2019-present	Caroline Hegemann	Vanderbilt Undergraduate Student
2019	Kylie Fletcher	University of South Carolina Undergraduate, summer
2019	Noyna Fabre	Hunter Undergraduate Student, summer
2018-present	Likem Boney	Vanderbilt Undergraduate Student
2017-2018	Kallan Hoover	Lipscomb Nutrition Student
2017	Adam Beasley	Rice Undergraduate Student
2015-2016	Andrew Park	Vanderbilt Undergraduate Student
2014	Caylyn Harvey	Davidson University Volunteer Student
2013	Courtney Cini	Vanderbilt International Scholars Program Student
2012-2013	Jordan Comstock	Vanderbilt Undergraduate Student
2012	Alina Soto Obando	Vanderbilt International Scholars Program Student
2010	Clay Adams	University of Tennessee Undergraduate Student
2009-2010	Maggie Pan	Vanderbilt Undergraduate Student
2009	Julia McGuinness	Williams College Undergraduate Student
2008-2009	Yan Cui	Vanderbilt Undergraduate Student
2008-2009	Brandon Lyle	Vanderbilt Undergraduate Student
2007	Tyler Allen	Vanderbilt Undergraduate Student
2004	Monica Blair	Vascular Biology Short-term Summer Student
2003-2005	Robin Atkinson	Initiative for Minority Student Development (IMSD) Student
2003-2004	Shan Zhao	Vanderbilt Undergraduate Student
2003	Clarissa Meredith	Vascular Biology Short-term Summer Student

### High School Students (summers only)

2020	Sophia Tennent	School for Science and Math at Vanderbilt
2012	Sagar Kanumalla	Research Experience for High School Students
2010	Carly Loveland	Research Internship Program
2008-2010	Alex Ristau	Research Internship Program
2009-2010	Kirk Gerrald	
2004	Michael Gloster	

### Trainee-Related Service:

#### Candidacy Exam

2016	Bethany Dale	MP&B
2015	Roxana Loperena	MP&B

2015	Kim Montaniel	MP&B
2015	Diane Saunders	MP&B
2015	Elijah Trefts	MP&B
2014	Megan Capozzi	MP&B
2014	Courtney Copeland	MP&B
2013	Brian Palmisano	MP&B
2010	Janina Maria Jeff	Human Genetics
2010	Elizabeth Conrad	MP&B
2010	Jeff Bonner	MP&B
2010	Brian McKenna	MP&B
2010	Brandon Panaro	MP&B
2010	Melissa Martinez	MP&B
2008	Heidi Kocalis	MP&B
2008	Rachel Reinert	MP&B
2007	Kimberly Mulligan	MP&B
2006	Eric Berglund	MP&B
2006	Sabrina Mitchell	Human Genetics
2005	Katie Johnson	MP&B
2004	Catherine DiCostanzo	MP&B
2004	Ron Chandler	MP&B

### **Dissertation Advisory Committees**

2020-present	Nowrin Chowdhury	Molecular Pathogenesis and Immunology
2019-present	Haley Mendoza	MP&B, committee chairperson
2019-present	Duncan Smart	MP&B, committee chairperson
2019-present	Eric Donahue	Cell & Dev Biology
2017-2019	Ly Pham	Pathology, Microbiology, Immunology
2017-present	Stephanie Dudzinski	Biomedical Engineering
2016-present	Diane Contreras	Microbiology and Immunology
2016-2019	Bethany Dale	MP&B, committee chairperson
2015-2018	Theresa Barke	Microbiology and Immunology
2015-2016	Aram Kumar	Microbiology and Immunology
2014-2018	Eddie Hickman	Biochemistry
2014-2018	Leslie Roteta	MP&B, committee chairperson
2014-2017	Allison Norlander	MP&B, committee chairperson
2013-2016	Lukasz Wylezinski	MP&B, committee chairperson
2013-2016	Brian Palmisano	MP&B
2013-2015	Alisha Mendonsa	Cancer Biology
2013-2015	Kristie Aamodt	MP&B
2011-2015	Ashley Hipps	Cell & Dev. Biol.
2011-2015	Melissa Martinez	MP&B
2011-2015	Chelsea Cupp	Biochemistry
2011-2014	Rob Egnatchik	Chem. Engineering
2011-2014	Laura Hunt	MP&B, committee chairperson
2011-2014	Brandon Panaro	MP&B
2011-2013	Erin Watts	Neuroscience
2010-2013	Jennifer Rojas	MP&B, committee chairperson
2010-2013	Charles Day	MP&B, committee chairperson
2010-2012	Janina Maria Jeff	Human Genetics
2009-2012	Curtis Gabriel	Pathology
2009-2011	Katie Coate	MP&B
2008-2011	Leah Potter	MP&B

2008-2011	Kimberly Mulligan	MP&B
2007-2010	Sabrina Mitchell	Human Genetics
2007-2009	Eric Berglund	MP&B
2006-2009	Jody Ullery	Pathology
2006-2009	Kimberly Korwek	Neuroscience
2006-2008	Katie Johnson	MP&B
2003-2006	Carrie Everett	MP&B

**Qualifying Exam/Thesis Advisory Committees outside Vanderbilt**

2016	Katie Langley	Dissertation Outside Reviewer – Garvan Institute of Medical Research, Australia
2014-2016	James Hayes	Master's Degree Committee member – MTSU
2011	Hayley Nicholls	Dissertation Outside Reviewer – Monash University, Australia
2010	Yaeko Hiyama	Dissertation Defense Outside Reviewer – Columbia University

### Class Lectures at Vanderbilt University

Class Title	Credit Hours	Number Students	Number Lecture per year	Years Taught
Cell and Molecular Basis of Vascular Biology Path 327	2	6-8	1	2003-2010
Molecular Endocrinology MPB 328	2	8-10	2	2003-2012
Molecular Endocrinology of Obesity and Diabetes MPB 333	1	8-10	2	2006-2015
Cellular and Molecular Basis of Disease Path 351A	3	10-12	1	2003-2008
Molecular Medicine Course for MSCI Program	2	18	1	2010-2015
Summer Course: Organ Systems Approach to Experimental Targeting of the Metabolic Syndrome	2	20	1	2010-2015
IGP Obesity/Diabetes Module	1	10	1	2019-present
Special Topics in Molecular Pathogenesis	2	10-15	2	2018-present

### Class Director at Vanderbilt University

Fall 2015	Co-direct Tutorials Class (MPB 324), 1 credit hour / 6 students
Fall 2014	Co-direct Tutorials Class (MPB 324), 1 credit hour / 11 students
Fall 2010	Co-direct Tutorials Class (MPB 324), 1 credit hour / 6 students
Fall 2009	Co-direct Tutorials Class (MPB 324), 1 credit hour / 14 students
Fall 2008	Co-direct Tutorials Class (MPB 324), 1 credit hour / 7 students
Fall 2007	Co-direct Tutorials Class (MPB 324), 1 credit hour / 7 students
Spring 2005	Co-direct Tutorials Class (MPB 324), 1 credit hour / 8 students
Fall 2004	Co-direct Tutorials Class (MPB 324), 1 credit hour / 8 students

### Small Group Discussion-based courses

2008-2017	IMPACT mentor (Intensive Mentoring Program for Advancement and Career; 1 <sup>st</sup> year grad students, 9-12 students / year)
2015-2016	Medical Student Immersion discussions for students performing biomedical research
2014-2016	Facilitator of Aligning Expectations workshop for second year MPB students and their mentors
2010-2016	Facilitator and/or speaker at small group discussions with MPB graduate students on topics such as: workplace workstyles, advocacy, dealing with large data sets, CRISPR technology, medical illustrations, statistics, and scientific writing

### Mentoring postdoctoral fellows, clinical fellows, and junior faculty at Vanderbilt University

2019-present	Jordan Wright, Postdoctoral Fellow in AI Powers laboratory
2019-present	Celestine Wanjalla, MD, PhD, Clinical Fellow, Infectious Disease
2018-present	Ryan Allen, PhD, Postdoctoral Fellow, Division of Cardiovascular Medicine

2018-present Mona Mashayekhi, MD, PhD, Clinical Fellow, Division of Diabetes, Endo, and Metabolism  
 2017-2019 Daniel Perrien, PhD, Division of Clinical Pharmacology  
 2017-2018 Hana Itani, PhD, Research Instructor, Clinical Pharmacology  
 2015-present Elaine Shelton, PhD, Neonatology  
 2015-present Jennifer Herrington, PhD, Neonatology  
 2015-2018 Nathan Bingham, MD, Pediatrics  
 2015-present Ciara Shaver, MD, Allergy, Pulmonary, and Critical Care (Medicine)  
 2015-2016 Henry Ong, PhD, Imaging  
 2014-present Annet Kirabo, PhD, Assistant Professor, Clinical Pharmacology  
 2014-2015 Julie Pendergast, PhD, Assistant Professor, Department of Medicine  
 2013-present Carrie Grueter, PhD, Research Assistant Professor or Anesthesiology  
 2013-2019 Meena Madhur, MD, Assistant Professor, Clinical Pharmacology  
 2012-2017 John Stafford, MD, PhD, Assistant Professor of Medicine  
 2012-2017 Takashi Matsuzaka, Associate Professor, Tsukuba University  
 2012-2014 Facilitator, CTSA sponsored faculty research mentoring education initiative  
 2012-2014 Deborah Murdoch, PhD, Research Assistant Professor of MPB  
 2011-2012 Yanice Mendez-Fernandez, PhD, Research Assistant Professor of Medicine  
 2009-2011 Faculty Sponsor, Vanderbilt Diabetes Association (undergraduate organization)  
 2009-2010 Mingming Hao, PhD, Research Assistant Professor  
 2008-2009 Lakshmi Sadgopol, PhD, Research Assistant Professor

#### **Mentoring of Junior Faculty outside Vanderbilt**

2019-present Sara Reyna, Assistant Professor, University of Texas Rio Grande Valley  
 2015-2019 Vicki Vieira-Potter, Associate Professor, University of Missouri  
 2014-2017 Liza Makowski, Assistant Professor, UNC Chapel Hill (through AHA Mentor Award)  
 2014-2017 Erin Murphy, Associate Professor, Ohio University, (through AHA Mentor Award)

#### **Presentations:**

##### **Facilitated Discussions at Vanderbilt University**

05/14/19 Newman and Translational Bridge, "Lifehacks" Panel Discussion on efficiency and productivity  
 01/15/19 DDRC Academy panel on laboratory finances  
 10/18/18 Harrison Society: panel on non-NIH funding sources  
 07/21/18 Neilson Society: "Workplace Workstyles"  
 04/12/18 Postdoc Symposium Panelist: "Challenging Situations"  
 04/18/18 Postdoctoral Affairs Office: "Mentee and Mentor – Getting the most out of your professional relationships"  
 02/15/18 Newman Seminar: "Managing Your Research Finances"  
 01/24/18 Women in Academy series: "What are the Limits? Power Dynamics and Boundaries in the Academy"  
 11/14/17 DDRC Career Development Workshop: "Workplace Workstyles"  
 11/08/17 Women on Track: "Workplace Workstyles"  
 11/08/17 IMPACT groups: "Workplace Workstyles"  
 03/21/17 Women in STEM Panel Discussant, "Challenges and Opportunities for Women in STEM"  
 09/14/17 Women on Track: "Workplace Workstyles"  
 02/15/17 Women on Track: "Building an Effective Team"  
 01/17/17 DDRC Career Development Workshop: "Preparing your Tenure Packet"  
 05/24/16 Postdoctoral ASPIRE Café: "Workplace Workstyles"  
 10/27/15 VU Women in Science and Engineering group: "Workplace Workstyles"  
 10/26/15 DDRC Career Development Workshop: "Workplace Workstyles"  
 10/01/15 Newman Society meeting: "Preparing your T&P package"

09/09/15 Women on Track: "Managing your Laboratory Finances"  
05/30/14 Annual Career Symposium: "Workplace Workstyles"  
02/11/09 Women on Track: "The T&P CV: Networking is the tie that binds"  
11/21/09 Women on Track: "Managing your Laboratory Finances"  
03/09/09 Capstone Program for medical students: "Pathogenesis of obesity"  
02/04/08 Capstone Program for medical students: "Pathogenesis of obesity"  
11/30/07 Women on Track: "How to prioritize"  
04/15/07 Women on Track: "Lab organization and management"  
02/21/07 Women on Track: "How to submit manuscripts on time"

### **Seminars at Vanderbilt University**

09/25/17 VI4 Next Big Thing  
03/10/17 Department of Medicine Mini-Research Retreat  
04/20/15 Pathology/Microbiology/Immunology seminar series  
05/21/14 Inflammation Forum  
12/13/13 Renal Research Conference  
11/18/13 Pulmonary Division Grand Rounds  
04/26/13 Autonomic dysfunction group  
12/07/12 Vanderbilt Diabetes Center seminar  
10/19/12 Vascular Biology Training Program Retreat  
06/27/12 Urologic Disease Center Retreat  
04/11/12 Digestive Diseases Research Center Retreat  
04/11/12 Cardiovascular Research Day  
05/17/11 Clinical Pharmacology Grand Rounds  
11/16/10 Department of Microbiology & Immunology Seminar Series  
09/07/10 MPB Department review  
10/30/09 DRTC Seminar Series  
11/14/08 Pediatric Endocrinology Conference  
11/13/08 Diabetes Day  
10/16/08 MP&B Faculty Seminar Series  
10/23/07 Vanderbilt Diabetes Center Board Meeting  
09/20/07 Oxidant Injury Research Group  
04/30/07 Digestive Disease Research Center Retreat Seminar  
03/14/07 Vanderbilt Obesity Research Group – Work in Progress  
03/08/07 MP&B Faculty Seminar Series  
12/09/04 Clinical Nutrition Research Unit Seminar Series  
10/19/04 Endocrinology Grand Rounds  
04/29/04 Molecular Physiology & Biophysics Retreat Seminar  
03/18/03 Cardiovascular Medicine Grand Rounds  
12/12/02 Departmental Seminar: Molecular Physiology and Biophysics, Vanderbilt University  
11/21/02 Adipose Tissue Interest Group

## Invited Speaking Engagements

### 2020

11/22/20 Autumn Immunology Conference, Chicago, IL  
08/31/20 Kern Lipid Conference guest speaker  
03/24/20 Pfizer, Cambridge, MS  
03/13/20 University of Connecticut, Department of Nutrition Sciences  
03/04/20 University of Georgia, Obesity Initiative Conference  
01/10/20 NIH Endocrinology Grand Rounds, invitation from Fellows

### 2019

11/06/19 Key Lecturer, The Obesity Society Annual Meeting at ObesityWeek 2019, Las Vegas, NV  
10/22/19 New York Academy of Sciences, Biochemical Pharmacology Discussion group, "Targeting Immunometabolism in Autoimmune Disease and Inflammation"  
10/08/19 University of Arizona Endocrine Grand Rounds, Tucson, AZ  
10/03/19 Pennington Center for Biomedical Research, Baton Rouge  
07/09/19 Eosinophil Society Annual Scientific Session, Session Organizer and Speaker, Portland Oregon  
05/28/19 Immunometabolism Conference, Rhodes, Greece  
03/14/19 University of Alabama Diabetes Seminar Series Plenary Lecture

### 2018

11/28/18 Rutgers Nutritional Sciences Seminar Series  
11/02/18 Vanderbilt University Diabetes Day Plenary Lecture  
11/01/18 NIDDK Network of Minority Health Research Investigators West Regional, Keynote lecture  
05/23/18 NIH symposium on "Obesity and Fat Metabolism in HIV-infected Individuals" sponsored by NIAID, NIDDK, NIH Office of AIDS Research (OAR) and the National Institutes of Health Office of Research on Women's Health  
05/14/18 Mexican Society of Immunology and the Latin American Association of Immunology joint meeting, Can-Cun Mexico  
04/09/18 29<sup>th</sup> Annual Vascular Biology and Hypertension Symposium, University of Alabama  
03/18/18 Endocrine Society's 100th Annual Meeting, Chicago Illinois

### 2017

10/31/17 University of Louisville Diabetes and Obesity Center Seminar Series  
09/17/17 American Heart Association Research Leaders Academy, Denver, Colorado  
08/15/17 ImmunoMetabolism and Chronic Disease Conference, Fiji  
05/13/17 American Association of Immunologists, Washington D.C.  
01/22/17 Keystone Conference, Diabetes/Obesity and Adipose Tissue Biology, Keystone

### 2016

11/11/16 University of Virginia Pharmacology Seminar Series  
10/12/16 University of Michigan Immunology Department Seminar Series  
10/11/16 University of Michigan ADVANCE Program for Women Faculty Development  
08/02/16 FASEB "Immunological Aspects of Obesity" conference at Big Sky, Montana  
04/02/16 EB Conference, American Society for Nutrition symposium, "Obesity, Iron Metabolism  
06/23/16 Federation of Clinical Immunology Societies (FOCIS) annual meeting, Boston  
06/09/16 Iconoclasm Meeting (pre-ADA meeting sponsored by Novo Nordisk) "Dysfunction and Chronic Disease"

03/24/16 Georgia Regents University Physiology Seminar Series  
03/03/16 UT Southwestern, Dallas Texas – Obesity and Diabetes Seminar Series  
02/08/16 University of Iowa Pharmacology Department, Iowa City, IA

### 2015

12/07/15 Wake Forest Diabetes Center  
09/27/15 Second Border Biomedical Research Center Symposium on Health Disparities: From Molecules to Disease, El Paso, TX  
09/17/15 Southeast Lipid Research Conference. Stone Mountain, GA  
08/03/15 Kern Lipid Conference, Vail Colorado  
04/02/15 Experimental Biology Meeting, Boston, Massachusetts

### 2014

11/20/14 Washington University Diabetes Center  
11/06/14 Discovery of Medical Sciences, Metabolism Session – Keynote Address. Tsukuba University, Tsukuba, Japan  
08/10/14 FASEB “Nutrient Sensing and Metabolic Signaling” conference, Big Sky, Montana  
08/02/14 Physiology without Borders, 1<sup>st</sup> PanAmerican Congress of Physiological Sciences, Iguassu Falls, Brazil  
04/17/14 Harvard, Joslin Diabetes Center Research Seminar Series

### 2013

11/07/13 Macrophages and Disease Conference, Aarhus University, Aarhus, Denmark  
11/04/13 German Cancer Research Institute (DKFZ), Heidelberg, Germany  
10/17/13 University of Missouri – Nutrition and Exercise Physiology Seminar Series  
09/30/13 Annual Obesity and Metabolism Conference, University of Vermont  
06/23/13 American Diabetes Association, Chicago, Illinois  
05/03/13 American Association of Immunologist, Annual Conference, Honolulu, Hawaii  
03/19/13 Rosalind Franklin University – All school consortium Keynote Address speaker

### 2012

11/07/12 University of California, San Francisco – Endocrinology Grand Rounds  
05/14/12 Barnstable Brown Diabetes and Obesity Center Research Day at the University of Kentucky, Lexington, KY.

### 2011

09/20/11 Aegean Conferences 1<sup>st</sup> International Conference on ImmunoMetabolism: Molecular and Cellular Immunology of Metabolism. Crete, Greece.  
09/01/11 University of Iowa - Molecular & Cellular Biology Program (Student invited speaker)  
06/19/11 Gordon Research Conference of Phagocytes. Davidson College, North Carolina.  
04/21/11 University of Cincinnati  
04/11/11 American Society for Investigative Pathology (ASIP) section of Experimental Biology Meeting - Washington DC.

### 2010

10/09/10 The Obesity Society’s Annual Scientific Meeting, San Diego, CA.  
04/21/10 Columbia University - Preventive Medicine, Seminars in Lipoprotein Metabolism, Atherosclerosis, and Nutrition

### 2009

10/16/09 Hospital for Sick Kids - Cell Biology Program Conference. Toronto, Canada.  
06/16/09 Virginia Commonwealth University. Cardiovascular Medicine Research Conference.



04/31/09 Arteriosclerosis, Thrombosis, and Vascular Biology Conference. Washington DC.  
02/02/09 Virginia Polytechnic Institute and State University. Department of Health and Human Nutrition, Foods and Exercise seminar series

**2008**

12/04/08 University of Maryland. Clinical Nutrition Research Unit Seminar  
11/23/08 Panel discussion member for American Diabetes Association volunteer meeting. Tampa, Florida.  
11/07/08 Society for Leukocyte Biology Annual Conference - Denver, Colorado.  
06/22/08 Gordon Research Conference – Lipids and Lipoprotein Metabolism. Waterville Valley, New Hampshire.  
03/14/08 Boshell Diabetes and Metabolic Diseases Research Day - Auburn University. Plenary Lecture Speaker.

**2007**

12/10/07 Case Western Reserve University - Diabetes Research Seminar  
11/19/07 Wyeth Pharmaceuticals  
11/15/07 University of Washington - Endocrinology Research Conference  
10/13/06 University of Arizona - Diabetes Seminar Series  
10/11/07 University of Michigan - Division of Metabolism, Endocrinology, and Diabetes Seminar Series  
04/17/07 Wayne State University - Nutrition and Food Sciences Seminar Series

**2006**

07/04/06 Gordon Research Conference - Atherosclerosis. Mt. Holyoke College.  
05/17/06 University of Kentucky - GCNS Seminar Series

**2005**

10/05/02 Southeast Lipid Research Conference. Callaway Gardens, GA

**2003**

04/04/03 University of Kentucky - Cardiovascular Seminar Series

## **Scientific Production:**

### **A. Peer-reviewed Original and Review Articles**

#### **2020**

1. MA Jackson, SS Patel, F Yu, MA Cottam, EB Glass, IB Kelly, BD Dollinger, EN Hoogenboezem, SK Bedingfield, AR King, RE Miles, DD Liu, P Patil, AH Hasty, TD Giorgio, CL Duvall. Kupffer cell release of platelet activating factor drives dose limiting toxicities of nucleic acid nanocarriers. 2019. In submission at **Nature Nanotechnology**.
2. CN Wanjalla, WJ McDonnell, R Ram, A Chora, R Gangula, S Leary, M Mashayekhi, JD Simmons, CM Warren, BD Furch, MC Lima, BO Woodward, L Hannah, MA Pilkinton, S Bailin, CL Gabriel, AH Hasty, SA Mallal, SA Kalams, JR Koethe. Adipose single-cell analysis reveals clonal expansion of potentially antiviral CXCR1+ CD4+ T cells with TH1 transcriptome in diabetic persons with HIV. 2019. In submission at **Cell Reports Medicine**.
3. NC Winn, K Volk, AH Hasty. Regulation of tissue iron homeostasis: The macrophage 'ferrostat'. 2020. **Journal of Clinical Investigation Insight**. 5:e132964.
4. LM Rogers, CH Serezani, AJ Eastman, AH Hasty, L Englund-Ögge, B Jacobsson, KC Vickers, DM Aronoff. Palmitate induces apoptotic cell death and inflammasome activation in human placental macrophages. 2019. **Placenta**. 90:45-51.
5. DA Breuer, MC Pacheco, MK Washington, and AH Hasty, AJ Kennedy. CD8+ T Cells regulate liver injury in obesity-related nonalcoholic fatty liver disease. 2020. **AJP: Gastrointestinal and Liver Physiology**. 318:G211-G224.

#### **2019**

6. KR Peterson, DA Gutierrez, T Kikuchi, EK Anderson-Baucum, NC Winn, MM Shuey, WR Bolus, OP McGuinness, and AH Hasty. Impaired insulin signaling in the B10.D2-*Hco H2d H2-T18d/o*SnJ mouse model of complement factor 5 (C5) deficiency. **AJP: Endocrin. Metabol.** 2019.317:E200-E211.
7. HL Caslin and AH Hasty. Extrinsic and Intrinsic Immunometabolism Converge: Perspectives on Future Research and Therapeutic Development for Obesity. 2019. **Current Obesity Reports**, 8: 210-219.
8. LS May-Zhang, Z Chen, N Dosoky, PG Yancey, KL Boyd, AH Hasty, MF Linton, SS Davies. Administration of N-Acyl-Phosphatidylethanolamine expressing bacteria to low density lipoprotein receptor-/- mice. Improves indices of cardiometabolic disease 2019. **Scientific Reports**. 23:420.

#### **2018**

9. WR Bolus and AH Hasty. Obesity-induced reduction of adipose eosinophils is reversed with low-calorie dietary intervention. 2018. **Physiological Reports**. 6:e13919. [PMC6250927](#).
10. WJ McDonnell, JR Koethe, SA Mallal, MA Pilkinton, A Kirabo, MK Ameka, MA Cottam, AH Hasty, and AJ Kennedy. High CD8 T Cell Receptor Clonality and Altered CDR3 Properties are Associated with Elevated Isolevuglandins in Adipose Tissue During Diet-Induced Obesity. 2018. **Diabetes**. 67:2361-2376. [PMC6198339](#).

11. WR Bolus and [AH Hasty](#). Contributions of Innate Type 2 Inflammation to Adipose Function. 2018. Invited Review for **J. Lipid Research**. Epub Ahead of Print. PMID:29891508; DOI: [10.1194/jlr.R085993](https://doi.org/10.1194/jlr.R085993).
12. MJ Hubler, KM Erikson, AJ Kennedy, and [AH Hasty](#). MFe<sup>hi</sup> adipose tissue macrophages compensate for tissue iron perturbations in mice. 2018. **Am J. Physiol. Cell Physiol.** 315:C319-C329. [PMC6171041](https://pubmed.ncbi.nlm.nih.gov/3011041/).
  - \* Selected as AJP-Cell Physiology featured paper in APS select collection for the month
  - \*\* Selected as AJP- Cell Physiology "Paper of the Year" for an outstanding paper published in AJP-Cell Physiology, on which a graduate student or early-stage (first 5 years) post-doctoral researcher has contributed as the single first author.
13. MA Cottam, HA Itani, AA Beasley, and [AH Hasty](#). Links between Immunologic Memory and Metabolic Cycling. 2018. Invited review for **Journal of Immunology**. 200:3681-3689. PMID: [PMC5973550](https://pubmed.ncbi.nlm.nih.gov/3013550/).
14. KR Peterson, MA Cottam, and [AH Hasty](#). Macrophage-targeted therapeutics for metabolic disease. 2018. Invited review for **Trends in Pharmacological Sciences**. 39:536-546. PMID:[PMC5962426](https://pubmed.ncbi.nlm.nih.gov/3012426/)
15. JR Koethe, W McDonnell, AJ Kennedy, CO Abana, M Pilkinton, I Setliff, L Barnett, CC Hagar, R Smith, SA Kalams, [AH Hasty](#), S Mallal. Adipose Tissue Shows Greater CD8+ T cell Activation and Receptor Clonality Compared to Blood in HIV-infected Persons. 2018. **Journal of Acquired Immune Deficiency Syndromes**. 77:e14-e21. [PMC5762435](https://pubmed.ncbi.nlm.nih.gov/3012435/).

## 2017

16. WR Bolus, KR Peterson, MJ Hubler, AJ Kennedy, ML Gruen, [AH Hasty](#). Elevating adipose eosinophils in obese mice to physiologically normal levels does rescue metabolic impairments. 2017. **Mol. Metabolism**. 8:86-95. PMID:[PMC5985044](https://pubmed.ncbi.nlm.nih.gov/3015044/).
17. KR Peterson, DK Flaherty, [AH Hasty](#). Obesity alters B cell and macrophage populations in brown adipose tissue. 2017. **Obesity**. 11:1881-1884. [PMC5679082](https://pubmed.ncbi.nlm.nih.gov/3016982/).

## 2016

18. HH Ong, CD Webb, ML Gruen, [AH Hasty](#), JC Gore, EB Welch. 2016. Fat-water MRI of a diet-induced obesity mouse model at 15.2T. **J. Med. Imaging**. 3:26002-2 – 26002-7. [PMC4877437](https://pubmed.ncbi.nlm.nih.gov/3017437/).
19. JS Orr, AJ Kennedy, AA Hill, EK Anderson-Baucum, M Hubler, [AH Hasty](#). CC-Chemokine receptor 7 (CCR7) deficiency alters adipose tissue leukocyte populations in mice. **Physiological Reports**. 2016. E12971. [PMC5037919](https://pubmed.ncbi.nlm.nih.gov/3017919/).

## 2015

20. WR Bolus, DA Gutierrez, AJ Kennedy, EK Anderson, and [AH Hasty](#). CCR2 deficiency leads to eosinophilia, alternative macrophage activation, and TH2 polarization in adipose tissue. 2015. **J. Leuk. Biol.** 98:467-477. [PMC4763864](https://pubmed.ncbi.nlm.nih.gov/30173864/). \*\* Feature under the Frontline Science Section as "Leading Edge Research" in the Table of Contents with a dedicated editorial. Also featured as the cover art.
21. KG Riley, MF Maulis, PL Kendall, [AH Hasty](#), WR Bolus, and M Gannon. Macrophages are essential for CTGF-mediated adult  $\beta$ -cell proliferation after injury. 2015. **Molecular Metabolism**. 4:584-591. [PMC4529497](https://pubmed.ncbi.nlm.nih.gov/3014529497/).

22. KS Wainright, NJ Fleming, JL Rowles, RJ Welly, TM Zidon, YM Park, TL Gaines, RJ Scroggins, EK Anderson-Baucum, [AH Hasty](#), VJ Vieira-Potter, J Padilla. Retention of sedentary obese visceral white adipose tissue phenotype with intermittent physical activity despite reduced adiposity. 2015. ***Am J. Physiol. Regul. Integr. Comp. Physiol.*** 309:R594-602. [PMC4591377](#).
23. AA Hill, EK Anderson-Baucum, AJ Kennedy, CD Webb, FE Yull, and [AH Hasty](#). 2015. Activation of NF-kB drives the enhanced survival of adipose tissue macrophages in an obesogenic environment. ***Molecular Metabolism***. 4:865-877. [PMC4588436](#).
24. MJ Hubler, KR Peterson, and [AH Hasty](#). Iron homeostasis: a new job for macrophages in adipose tissue? 2015. ***Trends in Endocrinology***. 26:101-109. [PMC4315734](#).

## 2014

25. JS Orr, AJ Kennedy, EK Anderson-Baucum, CD Webb, SC Fordahl, KM Erikson, Y Zhang, A Etzerodt, SK Moestrup, and [AH Hasty](#). Obesity impairs adipose tissue macrophage and systemic iron handling. 2014. ***Diabetes***. 63:421-432. PMID:PMC 3900546.
26. LB Buckman, EK Anderson-Bacuum, [AH Hasty](#), KLJ Ellacott. Regulation of S100B in white adipose tissue by obesity in mice. 2014. ***Adipocyte***. 3:215-220. PMID: PMC4110099.
27. IA Reddy, DH Wasserman, JE Ayala, [AH Hasty](#), NN Abumrad, and A Galli. Striatal Dopamine Homeostasis is Altered in Mice Following Roux-en-Y Gastric Bypass Surgery. 2014. ***ACS Chemical Neuroscience***.5:943-951. PMID: PMC4324416.
28. AA Hill, WR Bolus, [AH Hasty](#). A Decade of Progress in Adipose Tissue Macrophage Biology. 2014. ***Immunological Reviews***. 262:134-152. PMID:PMC4203421.

## 2013

29. L Kang, L Lantier, AJ Kennedy, JS Bonner, WH Mayes, DP Bracey, LH Bookbinder, [AH Hasty](#), CB Thompson, DH Wasserman. Hyaluronan accumulates with high fat feeding and contributes to insulin resistance. 2013. ***Diabetes***. 62:1888-1896. PMID: PMC3661617.
30. JS Orr, AJ Kennedy, [AH Hasty](#). Isolation of adipose tissue immune cells. 2013. ***J. of Visualized Experiments (JoVE)***. May 22;(75). PMID:PMC3718226.
31. EK Anderson, DA Gutierrez, A Kennedy, and [AH Hasty](#). Weight cycling increases T cell accumulation in adipose tissue and impairs systemic glucose tolerance. 2013. ***Diabetes***. 62:3180-3188. PMID: PMC3749340.
32. LB Buckman, [AH Hasty](#), DK Flaherty, CT Buckman, MM Thompson, BK Matlock, K Weller, KLJ Ellacott. Obesity induced by a high-fat diet is associated with increased immune cell entry into the central nervous system. 2013. ***Brain, Behavior and Immunity***. 35:33-42. PMID:PMC3858467.
33. A Kennedy, CD Webb, AA Hill, ML Gruen, LG Jackson, and [AH Hasty](#). Loss of CCR5 results in glucose intolerance in diet-induced obese mice. 2013. ***Am. J. Physiol. Endocrinol. & Metab.*** 305:E897-E906. PMID:PMC3798705.

## 2012

34. DA Gutierrez and AH Hasty. Hematopoietic Leptin Receptor Deficiency Does Not Affect Macrophage Recruitment to Adipose Tissue. 2012. **J. of Endo.** 212:343-351. PMCID: PMC3381898.
35. A Kennedy, ML Gruen, DA Gutierrez, BK Surmi, CD Webb, and AH Hasty. Impact of Macrophage Inflammatory Protein-1 $\alpha$  Deficiency on Atherosclerotic Lesion Formation, Hepatic Steatosis, and Adipose Tissue Expansion. 2012. **PLoS ONE.** 7:e31508. PMCID: PMC3281060.
36. EK Anderson, AA Hill, AH Hasty. Stearic acid accumulation in macrophages induces TLR4-independent induction of inflammation, leading to ER stress-mediated apoptosis. 2012. **Arterioscler. Throm. & Vasc. Biol.** 32:1687-1695. PMCID: PMC3385654.
37. JS Orr, MJ Puglisi, K Ellacott, CN Lumeng, DH Wasserman, and AH Hasty. TLR4 Deficiency Promotes the Alternative Activation of Adipose Tissue Macrophages. 2012. **Diabetes.** 61:2718-2727. PMCID: PMC3478520.

## 2011

38. DA Gutierrez, A Kennedy, JS Orr, EK Anderson, CD Webb, WK Gerrald, and AH Hasty. Aberrant accumulation of undifferentiated myeloid cells in the adipose tissue of CCR2 deficient mice delays improvements in insulin sensitivity. 2011. **Diabetes.** 60:2820-2829. PMCID:PMC3198070.
39. MJ Puglisi, AH Hasty, V Saraswathi. The role of adipose tissue in mediating the beneficial effects of dietary fish oil. 2011. **J. Nutritional Biochem.** 22:101-108. PMCID:PMC3038466.

## 2010

40. TK Rudolph, V Rudolph, MM Edreira, MP, Cole, G Bonacci, FJ Schopfer, SR Woodcock, A Franek, M Pekarova, NK Khoo, AH Hasty, S Baldus, BA Freeman. Nitro-fatty acids reduce atherosclerosis in apolipoprotein E-deficient mice. 2010. **Arterioscler. Throm. & Vasc. Biol.** 30:938-945. PMCID:2857965.
41. AJ Guri, SA Misyak, R Hontecillas, AH Hasty, D Liu, H Si, J Bassaganya-Riera. Abscisic acid ameliorates atherosclerosis by suppressing macrophage and CD4(+) T cell recruitment into the aortic wall. 2010. **J. Nut. Biochem.** 21:1178-1185 PMCID:2891372.
42. BK Surmi, AC Ristau, and AH Hasty. Absence of Macrophage Inflammatory Protein-1 $\alpha$  Does Not Impact Macrophage or T-Lymphocyte Accumulation in Adipose Tissue of Diet Induced Obese Mice. 2010. **Am. J. Physiol. Endocrinol. & Metab.** 299:E437-445. PMCID:PMC2944285.
43. BK Surmi and AH Hasty. The role of chemokines in immune cell recruitment to the artery wall and adipose tissue. Invited review. 2010. **Vascular Pharmacology.** 52:27-36. PMCID:PMC2823842.
44. AJ Kennedy, KLJ Ellacott, VL King, AH Hasty. Mouse models of the metabolic syndrome. Invited review. 2010. **Disease Models and Mechanisms.** 3:156-166. PMCID:PMC2869491.
45. EK Anderson, DA Gutierrez, and AH Hasty. Macrophage recruitment to adipose tissue. Invited Review. 2010. **Current Opinion in Lipidology.** 21:172-177. PMID:20410821.

## 2009

46. SM Batoy, S Borgmann, K Flick, J Griffith, JJ Jones, V Saraswathi, AH Hasty, P Kaiser, CL Wilkins. Lipid and phospholipid profiling of biological samples using MALDI Fourier transform mass spectrometry. 2009. **Lipids.** 44:367-371. PMID 19005715.

47. KR Coenen, ML Gruen, RS Lee-Young, MJ Puglisi, DH Wasserman, AH\_Hasty. Impact of macrophage Toll-like receptor 4 deficiency on macrophage infiltration into adipose tissue and the artery wall in mice. 2009. *Diabetologia*. 52:318-328. PMID 2615827.
48. MJ Romero-Aleshire, MK Diamond-Stanic, AH\_Hasty, PB Hoyer, HL Brooks. Loss of ovarian function in the VCD mouse-model of menopause leads to insulin resistance and a rapid progression into the metabolic syndrome. 2009. *Am. J. Physiol. Regul. Integr. Comp. Physiol.* 297:R587-592. PMID:2739794.
49. V Saraswathi and AH\_Hasty. Inhibition of long-chain acyl coenzyme A synthetases during fatty acid loading induces lipotoxicity in macrophages. 2009. *Arterioscler. Throm. & Vasc. Biol.* 29:1937-1943. PMID: 2766024.
50. V Saraswathi and AH\_Hasty. Dietary fish oil exerts hypolipidemic effects in lean and insulin sensitizing effects in obese LDLR<sup>-/-</sup> mice. 2009. *J. Nutrition*. 139:2380-2386. PMID:2777481.
51. S Li, Y Sun, C-P Liang, EB Thorp, S. Han, AW Jehle, V Saraswathi, B Pridgen, JE Kanter, R Li, CL Welch, AH\_Hasty, KE Bornfeldt, JL Breslow, I Tabas, AR Tall. Defective phagocytosis of apoptotic cells macrophages in atherosclerotic lesions of ob/ob mice and reversal by a fish oil diet. 2009. *Circ. Res.* 105:1072-1082. PMID: 2818555.
52. DA Gutierrez, MJ Puglisi, AH\_Hasty. The link between adipose tissue, inflammation, dyslipidemia and cardiovascular disease in diabetes. Invited review for Disorders of Lipid Metabolism section of 2009. *Current Diabetes Reports*. 9:26-32. PMID:PMC2735041.

## 2008

53. RD Atkinson, KR Coenen, ML Gruen, MR Plummer, and AH\_Hasty. Macrophage-derived apolipoprotein E (apoE) ameliorates dyslipidemia and atherosclerosis in obese apoE deficient mice. 2008. *Am. J. Physiol. Endocrinol. & Metab.* 294:E284-E290. PMID 18029445.
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55. MR Plummer and AH\_Hasty. Atherosclerotic lesion formation and triglyceride storage in obese apolipoprotein AI deficient mice. 2008. *J. Nut. Biochem.* 19:664-673. PMID 18280133.
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59. BK Surmi and AH\_Hasty. "Macrophage infiltration into adipose tissue: Initiation, propagation, and remodeling". 2008. *Future Lipidology*. 3:545-556. PMID: PMC2575346.

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60. AH Hasty, ML Gruen, ES Terry, BK Surmi, RD Atkinson, L Gao, and JD Morrow. Effects of vitamin E on oxidative stress and atherosclerosis in an obese hyperlipidemic mouse model. 2007. *J. Nut. Biochem.* 18:127-133. PMID 16781857.
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