

## Curriculum Vitae – June 2019

### PERSONAL DATA

Name: Ormond A. MacDougald  
Citizenships: United States and Canada  
Work Address: 6313 Brehm Diabetes Center  
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<http://macdougald.lab.medicine.umich.edu>

### EDUCATION

1977-1982 Mitchell District High School, Ontario, Canada  
1982-1986 University of Guelph, Guelph, Ontario, Canada; BSc (Agr)  
1986-1988 Michigan State University, East Lansing, Michigan; M.S.  
1988-1992 Michigan State University, East Lansing, Michigan; Ph.D.  
(Department of Physiology; Advisor: Donald B. Jump)

### POSTDOCTORAL TRAINING

1992-1996 Johns Hopkins University School of Medicine, Baltimore, Maryland;  
(Department of Biological Chemistry; Advisor: M. Daniel Lane)

### ACADEMIC APPOINTMENTS

1996-2002 Assistant Professor, Department of Physiology, University of Michigan  
School of Medicine, Ann Arbor, Michigan  
2002-2006 Associate Professor, Department of Molecular & Integrative Physiology,  
University of Michigan School of Medicine, Ann Arbor, Michigan  
2005-2006 Associate Professor, Department of Internal Medicine, Division of Metabolism,  
Endocrinology, and Diabetes, University of Michigan School of Medicine, Ann  
Arbor, Michigan  
2006- Professor, Departments of Molecular & Integrative Physiology, and Internal  
Medicine, Division of Metabolism, Endocrinology, and Diabetes, University of  
Michigan School of Medicine, Ann Arbor, Michigan  
2010- John A Faulkner Collegiate Professor of Physiology, Medical School  
2013-2014 Visiting Scholar. Pembroke College, University of Cambridge, UK  
2016-2021 Adjunct Professor, Department of Biochemistry and Molecular Biology, University  
of Southern Denmark

### SCIENTIFIC INTERESTS

Adipose Tissue Development and Metabolism. Wnt Signaling, Bone Formation

## EDITORIAL BOARDS

2003 – 2009	Journal of Biological Chemistry
2004 – 2006	Adipocytes
2004 – 2008	Gene Therapy and Molecular Biology
2007 – 2012	Obesity
2008 - 2011	The Open Bone Journal
2011 – 2012	Guest Editor for a special issue of <i>Bone</i>
2012 – present	Adipocyte
2012 – 2016	Molecular and Cellular Endocrinology
2016 – 2021	Diabetes (Associate Editor)

## REVIEWING FOR JOURNALS

Referee for: Cell, Science, Nature, Cell Metabolism, Genes & Development, Journal of Biological Chemistry, Molecular and Cellular Biology, American Journal of Physiology, Molecular Endocrinology, Journal of Cellular Physiology, Archives of Biochemistry and Biophysics, European Journal of Biochemistry, Journal of Clinical Investigation, Diabetes, Endocrinology, Proceedings of the National Academy of Sciences, U.S.A., Cellular and Molecular Life Sciences, Nucleic Acids Research, Journal of Animal Science, Journal of Nutrition, Cell Growth & Differentiation, Journal of Cell Science, Gastroenterology, Trends in Endocrinology and Metabolism, Biochemical Pharmacology, FEBS Letters, Obesity Research, Obesity, Biochemical Journal, Molecular Genetics and Metabolism, Nature Cell Biology, BBA – Molecular Cell Research, FASEB Journal, Journal of Lipid Research, Critical Reviews in Biochemistry and Molecular Biology, Diabetologia, PPAR Research, Differentiation, PLOS One, PLOS Biology, PLOS Pathogens, Journal of Experimental Medicine, Molecular and Cellular Endocrinology, Stem Cells, New England Journal of Medicine, Nature Medicine, Arteriosclerosis Thrombosis and Vascular Biology, Gerontology, Science Signaling, Journal of Cell Science, Diabetology & Metabolic Syndrome, Adipocyte, Molecular and Cellular Endocrinology, Lancet, Journal of Molecular Endocrinology, Molecular Metabolism, Nature Communications, eLife, Cell Stem Cell, Journal of Visualized Experiments, Comprehensive Physiology, Haematologica, Journal of Molecular Neuroscience, Cell Reports, Surgery for Obesity and Related Diseases, Journal of Bone and Mineral Research, JCI Insight, Aging Cell,

## GRANT REVIEWING

1997	Extramural Reviewer for the State of Louisiana Basic Science Grant Program
1999	NIH Reviewer (ad hoc): Program Project Grant, 11/99
2000	Extramural Reviewer for the Department of Veterans Affairs Biotechnology and Biological Sciences Research Council, United Kingdom
	NIH (ad hoc): Special Study Section (Obesity and Adipocyte Development),
2001	NIH (ad hoc): Metabolism Study Section NIH (ad hoc): Special Emphasis Panel (SBIR applications to the NIDDK) Diabetes and Research Training Center (ad hoc): UCSF

- 2002 NIH (ad hoc): Special Emphasis Panel (SBIR applications to the NIDDK)
- 2003 Diabetes and Research Training Center (ad hoc): Vanderbilt University  
Nutritional and Metabolic Sciences RFA. “Life Cycle of the Adipocyte”
- 2004 Diabetes and Research Training Center (ad hoc): Vanderbilt University
- 2005 American Diabetes Association (ad hoc)  
Medical Research Council, UK (ad hoc)
- 2006 Biotechnology and Biological Sciences Research Council, United Kingdom (ad hoc)  
Center for Organogenesis: Predoctoral Fellowships
- 2007 NIH (ad hoc): Special Emphasis Panel, Metabolism and  $\beta$ -Cell Biology  
NIH (ad hoc): Special Emphasis Panel, Stem Cells and Adipogenesis  
NIH (ad hoc): Special Emphasis Panel, Metabolism and  $\beta$ -Cell Biology  
Association Francaise contre les Myopathies
- 2008 Diabetes and Research Training Center (ad hoc): Vanderbilt University  
Center for Organogenesis: Postdoctoral Fellowships  
Biotechnology and Biological Sciences Research Council, United Kingdom
- 2009 NIH (ad hoc): CADO Study Section (NIDDK)  
NIH (ad hoc): Special Emphasis Panel (EMNR-B (95); ARRA applications to NIDDK)  
NIH (ad hoc): NURSA Collaborative Bridging Projects (NIDDK)  
Danish Council for Strategic Research  
Society for Women’s Health Research
- 2010 Biotechnology and Biological Sciences Research Council, United Kingdom (ad hoc)
- 2011 PO1 program project grant, NIDDK  
Yale University: Women’s Health Research Program
- 2012 PO1 program project grant, NIDDK  
Pilot/Feasibility Grants for the Albert Einstein College of Medicine DRTC
- 2013 Pilot/Feasibility Grants for the Boston NORC  
Pilot/Feasibility Grant for the Washington University DRC
- 2014 NIH: Special Emphasis Panel: ZRG1 EMNR-R(56). NIDDK Translational Research
- 2010 – 2015 NIH (permanent member): CADO Study Section; NIDDK
- 2015 Wellcome Trust: Senior Research Fellow in Clinical Science  
American Diabetes Association Postdoctoral Fellowship Awards  
NIH Special Emphasis Panel: ZRG EMNR-P (02) M
- 2014 – 2016 U.S. Peer Review Committee for Fulbright Scholar applications to the U.K.
- 2016 Pilot/Feasibility Grant for the Indiana DRC  
Pilot/Feasibility grant for the Pennington Biomedical Research Institute COBRE  
Austrian Science Fund, Research Proposal  
Biotechnology and Biological Sciences Research Council, United Kingdom
- 2017 Fondation pour la Recherche Médicale, France  
Pilot/Feasibility Grant for the Indiana DRC

Pilot/Feasibility Grant for the Pennington Biomedical Research Institute COBRE

2018 United Kingdom Diabetes Society  
Medical Research Council, United Kingdom

2019 Pilot/Feasibility Grant for the Pennington Biomedical Research Institute COBRE

## **OTHER SCIENTIFIC ACTIVITIES**

2002 Co-chaired session with T. Unger at the 7th Annual Meeting of the European Council for Blood Pressure and Cardiovascular Research on "Obesity and Cardiovascular Risk." Seeheim, Germany, October 11-13.

2003 American Diabetes Association: Subcommittee on Adipocyte Biology to plan symposia for 64<sup>th</sup> Annual Meeting. 9/03.  
American Diabetes Association: Subcommittee on Gene Expression to plan symposia for 64<sup>th</sup> Annual Meeting. 9/03.  
International Advisory Board: Graduate School of Metabolism, University of Southern Denmark, Odense.

2004 International Advisory Board: Graduate School of Metabolism, University of Southern Denmark, Odense.  
American Diabetes Association: Subcommittee on Gene Regulation to plan symposia for 65<sup>th</sup> Annual Meeting. 8/04.  
American Diabetes Association: Subcommittee on Adipocyte Biology to plan symposia for 65<sup>th</sup> Annual Meeting. 8/04.

2005 International Advisory Board: Graduate School of Metabolism, University of Southern Denmark, Odense.

2006 American Diabetes Association: Review of abstracts for the Integrated Physiology - Adipocyte Biology category. 1/06.  
International Advisory Board: Graduate School of Metabolism, University of Southern Denmark, Odense.  
External Advisory Committee: Centers of Biomedical Research Excellence, Pennington Biomedical Research Center, Baton Rouge, LA

2007 American Diabetes Association: Review of abstracts for the Integrated Physiology - Adipocyte Biology category. 1/07.  
Annual Program Committee: The Obesity Society (2007 – 2009)  
External Advisory Committee: Centers of Biomedical Research Excellence, Pennington Biomedical Research Center, Baton Rouge, LA  
International Advisory Board: Graduate School of Metabolism, University of Southern Denmark, Odense.

2008 Organizer: Keystone Symposia on Molecular Control of Adipogenesis and Obesity, February 19-24, Banff Canada  
The Obesity Society: Program committee and review of abstracts for the 26<sup>th</sup> Annual Scientific Meeting

- International Advisory Board: Graduate School of Metabolism, University of Southern Denmark, Odense.  
External Advisory Committee: Centers of Biomedical Research Excellence, Pennington Biomedical Research Center, Baton Rouge, LA
- 2009 Human Brown Adipose Tissue Workshop. April 29, NIDDK, Bethesda MD  
The Obesity Society: Program committee and review of abstracts and chair of sessions for the 27<sup>th</sup> Annual Scientific Meeting  
International Advisory Board: Graduate School of Metabolism, University of Southern Denmark, Odense.  
External Advisory Committee: Centers of Biomedical Research Excellence, Pennington Biomedical Research Center, Baton Rouge, LA
- 2010 American Diabetes Association: Review of regular and late-breaking Integrated Physiology - Adipocyte Biology abstracts for the Annual Meeting.  
External Advisory Committee: Centers of Biomedical Research Excellence, Pennington Biomedical Research Center, Baton Rouge, LA
- 2011 External Advisory Committee: Centers of Biomedical Research Excellence, Pennington Biomedical Research Center, Baton Rouge, LA. April 18-19.  
Johns Hopkins University Center for Metabolism and Obesity Research. External Review Committee (Chair): April 27-28.
- 2012 The 58<sup>th</sup> Benzon Symposium: Adipose Tissue in Health in Disease. Co-organizer with Susanne Mandrup and Sven Enerback. Copenhagen, Denmark. Aug 27<sup>th</sup> – 30<sup>th</sup>, 2012.  
American Diabetes Association: Review of regular and late-breaking abstracts for the Integrated Physiology - Adipocyte Biology category. 1/12.  
American Diabetes Association: Review of mentor-based postdoctoral fellowship applications
- 2014 Lipodystrophy in 2014: Leptin and Beyond. Scientific Organization Committee. Ann Arbor, MI. October 17 – 19, 2014.
- 2016 American Diabetes Association: Review of regular and late-breaking Insulin Signaling - Adipocyte Biology abstracts for the 76<sup>th</sup> Annual Meeting.
- 2017 Scientific Advisory Board: ATLAS Center of Excellence. University of Southern Denmark
- 2018 Co-chaired session at ENDO 2018 on Neuroendocrine Modulation of Body Fat Distribution  
Scientific Advisory Board: ATLAS Center of Excellence. University of Southern Denmark
- 2019 Scientific Advisory Board: ATLAS Center of Excellence. University of Southern Denmark

## PATENTS

U.S. Patent No. 7,135,611: Compositions And Methods For Characterizing And Regulating Wnt Pathways. Issued November 14, 2006

**CONSULTING:**

R&D Systems, Minneapolis MN. (2001)  
Health Care Ventures, NJ. (2002)  
ProStrakan Pharma, Romainville, France. (2004-2005)  
NIH DK066164, Mechanism of Promotion of Adipogenesis by Adenovirus-36, PI: Nikhil Dhurandar (2004)  
Scientific Advisory Board, Evolva Ltd, Basel, Switzerland, (2005 to 2007)  
Proctor & Gamble Pharmaceuticals, Inc. (2005)  
Pennington Biomedical Research Center, Mentor for COBRE grant, (2006-2011)

**GRANT SUPPORT:**

**Past**

National Institutes of Diabetes and Digestive and Kidney Diseases National Research Service Award (5 F32 DK08794), "Regulation of C/EBP $\alpha$  Transcription in 3T3-L1 Adipocytes;" 8/24/92-8/23/95, Annual Direct Costs: \$24,300. Principal Investigator.

Michigan Diabetes Research and Training Center Pilot Feasibility Study Program, "Cloning of Adipocyte Genes Regulated by Insulin and C/EBP $\alpha$ ;" 1/1/97-1/1/98, Annual Direct Costs: \$20,000. Principal Investigator.

National Institute of Diabetes and Digestive and Kidney Diseases (RO1 DK 51563), "C/EBP $\alpha$  as a Mediator of Insulin Action in Adipocytes;" 7/1/96 – 7/1/00; Annual Direct Costs: \$110,000. Principal Investigator: 35% effort.

Juvenile Diabetes Foundation International, "Role of C/EBP $\alpha$  in Insulin Action." 9/1/97-8/31/99; Annual Direct Costs: \$90,910. Principal Investigator.

Gastrointestinal Peptide Research Center Pilot Feasibility Study Program. "Spot 14 as a Transcriptional Coactivator in Liver." 9/1/98-9/1/99; Annual Direct Costs: \$20,000. Principal Investigator.

Chiron Corporation, "Role of Highly Specific Inhibitors of GSK3 on Inhibition of Adipogenesis by the Wnt Signaling Pathway;" 10/15/01-4/15/02; Direct Costs: \$4,167. Principal Investigator.

American Diabetes Association Research Award, "Role of p300 In C/EBP $\alpha$  Action," 1/1/00-12/31/02; Annual Direct Costs: \$86,957. Principal Investigator: 18% effort.

Nathan Shock Center Mutant and Transgenic Rodent Core, "Molecular Mechanism of the Body Composition Changes Associated with Aging;" 1/1/01 to 12/31/03; Annual Direct Costs: \$9,000. Principal Investigator.

- University of Michigan Bone Center - Pilot Project Grant, "Role of Wnt Signaling in Bone Formation;" 7/1/03-6/31/04, Annual Direct Costs: \$27,000. Co-investigator with Kurt Hankenson: 0% effort.
- National Institutes of Diabetes and Digestive and Kidney Diseases (RO1 DK46072), "Growth Hormone Signaling to the Nucleus;" 7/01/00 - 6/30/04; Annual Direct Costs: \$189,000. Co-investigator with Jessica Schwartz: 10% effort.
- Nathan Shock Center Mutant and Transgenic Rodent Core, "Molecular Mechanism of the Body Composition Changes Associated with Aging;" 1/1/04 to 6/30/04; Total Direct Costs: \$12,000. Principal Investigator.
- Centocor, "Role of Wnt Signaling in Differentiation of Human Mesenchymal Stem Cells;" 1/1/04-12/31/05, Annual Direct Costs: \$96,153. Principal Investigator.
- National Institute of Diabetes and Digestive and Kidney Diseases (RO1 DK51563), "C/EBP $\alpha$  as a Mediator of Insulin Action in Adipocytes;" 4/1/01 – 2/28/06; Annual Direct Costs: \$200,000. Principal Investigator: 40% effort.
- American Diabetes Association Mentor-Based Postdoctoral Fellowship, 7/01/02 - 6/30/06, Annual Direct Costs: \$45,000. Principal Investigator: 0% effort.
- National Institute of Diabetes and Digestive and Kidney Diseases (RO1 DK62876), "Role of Wnt in White and Brown Adipose Development;" 2/1/03-6/30/08; Annual Direct Costs: \$235,000. Principal Investigator: 25% Effort
- American Diabetes Association Research Award, "C/EBP $\alpha$  phosphorylation and insulin sensitivity in adipocytes," 1/1/06-12/31/08; Annual Direct Costs: \$86,957. Principal Investigator: 10% effort.
- National Institute of Diabetes and Digestive and Kidney Diseases (R56 DK62876), "Role for Wnt Signaling in White Adipose Tissue;" 7/1/08-6/30/09; Annual Direct Costs: \$148,254. Principal Investigator: 20% Effort
- National Institutes of Health (RO1 GM39561), "Pharmacological targeting of regulators of G protein signaling;" 9/8/06 – 2/28/09; Annual Direct Costs: \$464,575. Co-investigator with Rick Neubig (5% effort).
- National Institutes of Health; ARRA Equipment Supplement to "Regulation of Adipocyte Differentiation and Metabolism." 3/1/10-5/31/10; Total Direct Costs: \$92,377. Principle Investigator. 0% Effort.
- National Institutes of Health, "mTOR signaling: a novel molecular mechanism of Wnt's anabolic effects on bone;" 4/1/06 – 3/31/10; Annual Direct Costs: \$250,000. Co-investigator with Hongjiao Ouyang (10% effort).
- Eli Lilly, "Wnt signaling and microRNAs in bone biology;" 1/1/08 – 12/31/10. Annual Direct Costs: \$32, 895. Principal Investigator.

- National Institute of Diabetes and Digestive and Kidney Diseases (R24 DK084970), “Interdisciplinary study of marrow adiposity, mineral metabolism, and energy balance;” 12/22/09 – 11/30/10; Annual direct costs: \$300,000. Co-PI on multi-site grant with Rosen, Horowitz, and Klibanski (5% effort).
- National Institutes of Health; ARRA Summer Research Experiences for Students and Science Educators. 7/1/09-6/30/11; Annual Direct Costs: \$12,368. Principle Investigator. 0% Effort.
- National Institute of Diabetes and Digestive and Kidney Diseases (RO1 DK51563), "Regulation of adipocyte differentiation and metabolism;" 7/1/06 – 6/31/12; Annual Direct Costs: \$220,000. Principal Investigator: 25% effort.
- American Diabetes Association, Mentor Based Postdoctoral Fellowship; 7/1/08 – 6/31/12; Annual Direct Costs: \$42,750. Principal Investigator. 0% Effort.
- National Institute of Diabetes and Digestive and Kidney Diseases (RO1 DK62876), "Role for Wnt Signaling in White Adipose Tissue;" 7/1/09-6/30/14; Annual Direct Costs: \$230,324. Principal Investigator: 21% Effort
- Rackham Graduate School, University of Michigan, “Global Engagement of Doctoral Education Grant – UM-Trinity College Dublin Academic Exchange” 7/1/11-6/30/14; Annual Direct Costs: \$35,000. Co-PI with Isom and Martens.
- Biomet Biologics, LLC, “Analysis of gene expression changes during autologous protein solution processing;” 7/1/13-6/31/14; Total Direct Costs: \$22,700. Principal Investigator.
- Eli Lilly and Co, “Regulation of marrow adipose tissue” 9/1/12 – 11/17/14. Annual Direct Costs: \$28,939. Principal Investigator.
- National Institute of Diabetes and Digestive and Kidney Diseases (R24 DK092759), “Interdisciplinary study of marrow adiposity, mineral metabolism, and energy balance;” 9/30/11 – 6/30/15; Annual Direct Costs to MacDougald lab: \$156,119. Co-PI on multi-site grant with Rosen, Horowitz, and Klibanski (16% effort).
- National Institutes of Health (P30 DK089503; Burant PI) Michigan Nutrition Obesity Research Center. 7/01/10 – 6/30/15; Annual Direct Costs: \$750,000. Director of Pilot & Feasibility Grant Program (10% effort).
- National Institutes of Health (R03 DK092542; Subauste PI) “Role of lipid intermediates in the limited human adipose tissue expandability associated with obesity induced insulin resistance;” 9/15/12-8/31/15; Annual Direct Costs: \$132,000. Co-investigator (5% effort).
- National Institutes of Health (R25 DK088752; Schnell PI), “Interfacing computational and engineering with digestive and metabolic physiology;” 7/1/10-11/30/2015; Annual Direct Costs: \$100,000. Co-investigator (5% effort).



National Institutes of Health (RO1 DK095705) “Role of sweet taste receptors in adipocyte differentiation and metabolism;” 6/1/12 - 3/31/16; Annual Direct Costs: \$212,500. Principal Investigator. (16.7% effort).

Metabolic Solutions Development Company, “Effect of KXN-5514 on brown adipogenesis” 10/1/15 – 5/31/16. Annual Direct Costs: \$12,000. Principal Investigator.

National Institutes of Health (K99 DE024178; Scheller PI) “Neural regulation of skeletal biology and periodontal disease;” 1/4/14 - 3/31/16; Annual Direct Costs: \$101,412. Mentor. (0% effort).

National Institutes of Health (RO1 DE11723; Franceschi PI) “MAP Kinase regulation of osteoblast function;” 12/1/12 - 11/30/17; Annual Direct Costs: \$249,304. Co-investigator. (5% effort).

University of Michigan MCube (Co PI with Kozloff and Franceschi). “Energetics of bone and fat metabolism.” 12/1/15-11/30/16; Annual Direct Costs: \$60,000.

### **Current**

National Institute of Diabetes and Digestive and Kidney Diseases (RO1 DK62876), "Role for Wnt Signaling in White Adipose Tissue;" 7/14/15 – 6/30/19; Annual Direct Costs: \$250,000. Principal Investigator: 16.7% Effort.

National Institute of Diabetes and Digestive and Kidney Diseases (R24 DK092759), “Interdisciplinary study of marrow adiposity, mineral metabolism, and energy balance;” 8/1/15 – 7/31/20; Annual Direct Costs to MacDougald lab: ~\$220,000. Co-PI on multi-site grant with Rosen, Horowitz, and Klubanski (20% effort).

National Institutes of Health (T32 DK101357), “Multidisciplinary training program in basic diabetes research;” 9/1/14 – 8/31/19; Annual Direct Costs: \$231,912. Co-PI with Arvan (5% effort).

National Institutes of Health (P30 DK089503; Burant PI) Michigan Nutrition Obesity Research Center. 7/01/15 – 6/30/20; Annual Direct Costs: \$750,000. Director of Pilot & Feasibility Grant Program (10% effort).

National Institutes of Health (R25 DK088752; Schnell PI), “Interfacing computational and engineering with digestive and metabolic physiology;” 12/1/2016-1/30/2021; Annual Direct Costs: \$100,000. Co-investigator (2% effort).

MedImmune (Myers PI). “Enhanced screening of potential therapeutic targets of obesity and diabetes.” 1/13/17 – 12/31/19. Annual Direct Costs: \$230,000. Co-investigator. (1% effort).

MSK<sup>2</sup> Pilot Grant. “Cellular interactions within the bone marrow niche.” 6/1/19 – 5/30/20. Annual Direct Costs: \$25,000.

Agilent. “Comparative ‘omic analyses of cold exposed adipocytes.” 7/1/19 – 6/30/20. Annual Direct Costs: \$40,000.

### **Pending**

National Institutes of Health (T32 DK101357), “Multidisciplinary training program in basic diabetes research;” 9/1/19 – 8/31/24.

National Institutes of Health (R01). “How bariatric surgery causes loss of bone and marrow adiposity;” 9/1/19 – 8/31/24.

National Institutes of Health (R01). “How adipocytes adapt to cool environmental temperatures;” 1/1/20 – 12/31/25

### **AWARDS AND HONORS**

1985; 1986	Deans Honors List
1986	Centennial Graduate Fellowship
1986	George I. Christie Scholarship
1986	University of Guelph College Royal Celebrant
1986	R.J. Watford Prize
1989	Academic Excellence Award, Department of Physiology
1990-1991	Barnett Rosenberg Fellowship
1991	Jack Hoffert Memorial Award
1991	Sigma Xi Graduate Student Award
1991	Sigma Xi Student Research Grant
1991-1992	College of Natural Science Continuing Graduate Fellowship
1994	Young Investigators Award, FASEB Summer Conference
2005	Henry Pickering Bowditch Award. “One of the American Physiological Societies highest honors. To a distinguished young physiologist less than 42 years of age who has made original and outstanding contributions in physiology.”
2005	Basic Science Achievement Award, University of Michigan Medical School
2007	Bio-artography.com: contributed “World of Fat” and “Fungus Amongus”
2010-	John A. Faulkner Collegiate Professor of Physiology, Medical School
2011	Rackham Distinguished Graduate Mentoring Award, University of Michigan League of Research Excellence, University of Michigan Medical School Bio-artography.com: contributed “Where the ice cream goes”
2012	Fellow of the American Association for the Advancement of Science
2013	League of Educational Excellence, University of Michigan Medical School Fellow of The Obesity Society
2013-2014	Fulbright Scholar Award (All disciplines) to the University of Cambridge, UK
2016	Bodil M. Schmidt-Nielsen Distinguished Mentor and Scientist Award, American Physiological Society Bio-artography.com: contributed “Honey storage”
2017	Bio-artography.com: contributed “Fabulous Faces of Fat”

### **MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES**

American Association for the Advancement of Science  
American Diabetes Association  
Michigan Society for Medical Research  
The Endocrine Society  
American Society for Biochemistry and Molecular Biology  
American Society for Microbiology  
North American Association for Obesity  
American Physiological Society

## TEACHING EXPERIENCE

### **Michigan State University**

1986-1987    ANS400; Teaching Assistant  
1989        PSL401; Comparative Physiology Laboratory, Teaching Assistant  
1990        PSL431; Teaching Assistant  
1991        PSL432; Teaching Assistant

### **Johns Hopkins University School of Medicine**

1992    Molecules and Cells: Led "small group" discussions on intermediary metabolism;  
Led journal clubs for medical students; graded essay exams

### **University of Michigan**

1998    Lectures (5) in Physiology 502 (Mammalian Physiology for first-year  
Dental and Non-Physiology graduate students)  
Small Group Session with Medical Students on Endocrinology

1999    Lectures (3) in Phys/Pharm 590 (Recent Developments in Cellular and  
Molecular Endocrinology) on Role of Transcriptional Coactivators and  
Coinhibitors in Hormone Action  
Lectures (5) in Physiology 502 (Mammalian Physiology for first-year Dental  
and Non-Physiology graduate students)  
Small Group Sessions (2) with Medical Students on Gastrointestinal Physiology  
and Endocrinology

2000    Lectures (4) in Physiology 555 (Integrative Genomics)  
Lectures (5) in Physiology 502 (Mammalian Physiology for first-year  
Dental and Non-Physiology graduate students)  
Small Group Sessions (2) with Medical Students on Gastrointestinal  
Physiology and Endocrinology  
Lectures (3) in HG653 (Regulation of Gene Expression III)

2001    Lectures (3) in Physiology 555 (Integrative Genomics)  
Lectures (5) in Physiology 502 (Mammalian Physiology for first-year  
Dental and Non-Physiology graduate students)  
Small Group Sessions (2) with Medical Students on Gastrointestinal Physiology,

and Endocrinology and Metabolism  
 Cell and Molecular Biology 850: Faculty Evaluator

- 2002 Lectures (3) in Physiology 555 (Integrative Genomics)  
 Lectures (5) in Physiology 502 (Mammalian Physiology for first-year  
 Dental and Non-Physiology graduate students)  
 Small Group Sessions (2) with Medical Students on Gastrointestinal Physiology,  
 and Endocrinology and Metabolism  
 Cell and Molecular Biology 850: Faculty Evaluator  
 Course Coordinator and Lecturer (2) of Cell and Developmental Biology 681  
 Module on "Organogenesis of Adipose Tissue"
- 2003 Lectures (3) in Physiology 555 (Integrative Genomics)  
 Cell and Molecular Biology 850: Faculty Evaluator  
 Lectures (5) in Physiology 502 (Mammalian Physiology for first-year  
 Dental and Non-Physiology graduate students)  
 Lecture in PIBS 503 on Responsible Research
- 2004 Co-director of Physiology 555 (Integrative Genomics), with J. Metzger  
 Lectures (3) in Physiology 555 (Integrative Genomics)  
 Cell and Molecular Biology 850: Faculty Evaluator  
 Lectures (270 min) in Physiology 502 (Mammalian Physiology  
 for Pharmacy and Non-Physiology graduate students)  
 Lecture in PIBS 503 on Responsible Research  
 Small group discussion leader: PIBS 503  
 Evaluated student posters and presentations: Physiology 510
- 2005 Co-director of Physiology 555 (Integrative Genomics), with L. Samuelson  
 Lectures (4) in Physiology 555 (Integrative Genomics)  
 Lectures (270 min) in Physiology 502 (Mammalian Physiology  
 for Pharmacy and Non-Physiology graduate students)
- 2006 Lecture and small group discussion: PIBS 503 on Responsible Research
- 2007 Small Group Session with Medical Students on Gastrointestinal Physiology  
 Lectures (3) in Physiology 555 (Integrative Genomics)  
 Lecture in PIBS 503: Research Responsibility and Ethics
- 2008 Small Group Session with Medical Students on Metabolism and Diabetes  
 Lectures (3) in Physiology 555 (Integrative Genomics)  
 Lectures (270 min) in Physiology 502 (Mammalian Physiology  
 for Pharmacy and Non-Physiology graduate students)  
 Director of "Aspects of Physiological Research" for undergraduate students doing  
 research in departmental labs over the summer  
 Faculty supervisor: Physiology 606, Current Topics in Physiology – Student Seminar
- 2009 Co-director of Physiology 555 (Integrative Genomics), with L. Samuelson  
 Lectures (4) in Physiology 555 (Integrative Genomics)

- Director of Physiology 606, Current Topics in Physiology – Student Seminar (Winter and Fall terms).  
 Director of “Molecular and Integrative Physiology for Undergraduate Researchers” for individuals doing research in departmental labs over the summer
- 2010 Co-director of Physiology 555 (Integrative Genomics), with L. Samuelson  
 Lectures (4) in Physiology 555 (Integrative Genomics)  
 Director of Physiology 606, Current Topics in Physiology – Student Seminar (Winter and Fall terms)  
 Director of “Molecular and Integrative Physiology for Undergraduate Researchers,” a noon lecture series for individuals doing summer research in departmental labs
- 2011 Director of Physiology 606, Current Topics in Physiology – Student Seminar (Winter and Fall Terms)  
 Director of “Molecular and Integrative Physiology for Undergraduate Researchers,” a noon lecture series for individuals doing summer research in departmental labs
- 2012 Director of Physiology 606, Current Topics in Physiology – Student Seminar (Winter and Fall Terms)  
 Small Group Session with Medical Students on Gastrointestinal Physiology  
 Director of “Molecular and Integrative Physiology for Undergraduate Researchers,” a lecture series for SURF, STEP, and other undergraduate fellows doing summer research in MIP
- 2013 Director of Physiology 606, Current Topics in Physiology – Student Seminar (Winter Term)  
 Co-director of “Molecular and Integrative Physiology for Undergraduate Researchers,” a lecture series for SURF, STEP, and other undergraduate fellows doing summer research in MIP
- 2014 Director of Physiology 606, Current Topics in Physiology – Student Seminar (Fall Term)
- 2015 Director of Physiology 606, Current Topics in Physiology – Student Seminar (Winter and Fall Terms)  
 Cell and Developmental Biology 582: Stem Cells in Organogenesis and Regenerative Medicine (1 lecture).  
 Co-director of “Molecular and Integrative Physiology for Undergraduate Researchers,” a series of nine lectures for SURF, STEP, and other undergraduate fellows doing summer research in MIP
- 2016 Director of Physiology 606, Current Topics in Physiology – Student Seminar (Winter Term)  
 Co-director of “Molecular and Integrative Physiology for Undergraduate Researchers,” a series of ten lectures for SURF, STEP, and other undergraduate fellows doing summer research in MIP  
 Director of Lecture Series (T32): Multidisciplinary training program in basic diabetes research (gave 1 lecture).
- 2017 Director of Lecture Series (T32): Multidisciplinary training program in basic diabetes Research
- 2018 Director of Lecture Series (T32): Multidisciplinary training program in basic diabetes

Research  
2019 Director of Lecture Series (T32): Multidisciplinary training program in basic diabetes  
Research

## **SUPERVISOR (SUMMARY)**

17 Postdoctoral Fellows  
17 Graduate Students  
5 Visiting Scientists  
1 Co-mentored Postdoctoral Fellow and 8 Co-Mentored Graduate Students  
35 Graduate Student Rotations  
54 Undergraduate, Medical and High School students who did research projects in my laboratory  
41 Preliminary examination committees  
67 Graduate dissertation committees  
4 External counselor for graduate students  
7 Scientific and Advisory Committees: K awards, T32, Faculty launch committees

## **POSTDOCTORAL FELLOWS**

1. Kenneth A. Longo, Ph.D. Dartmouth Medical School, 1998 – 2003. Endocrinology and Metabolism Training Grant, American Diabetes Association Postdoctoral Fellowship, First Prize in the Poster Competition at the Annual Symposium for Organogenesis at the University of Michigan (2003). Current Position: Director, Data Science. WAVE Life Sciences Ltd.
2. Isabelle Gerin, Ph.D. University Catholique de Louvain, 2001 - 2008. BAEF (Belgian American Education Foundation) Fellowship, Center for Organogenesis postdoctoral fellowship, FNRS (Fonds National De La Recherche Scientifique) postdoctoral fellowship, Center for Organogenesis travel award. First Prize, Poster Competition at 6th Intl. Symposium on Stem Cells and Organogenesis (2005). Travel Award from Center for Organogenesis (2006). Current position: Universite Catholique de Louvain Christian de Duve Institute of Cellular Pathology
3. Shian-Huey Chiang, Ph.D. University of Michigan, 2003 - 2005, Engineering and Regeneration Training Grant Postdoctoral Fellowship, MARC Travel Award (FASEB summer conference), Chair of Scientific Session at Annual Meeting of the American Diabetes Association (2003). Career Progression: Assistant Research Scientist. Life Science Institute, Ann Arbor, MI. Current Position: Principal Scientist/Research Project Leader, Centers for Therapeutic Innovation, Pfizer.
4. Vern Dolinsky, Ph.D. University of Alberta, Canada, 2003 – 2005. Poster Competition Award at 6th Intl. Symposium on Stem Cells and Organogenesis (2005). Current Position: Associate Professor. University of Manitoba. Faculty of Medicine. Department of Pharmacology and Therapeutics.

5. Pernille Keller, Ph.D. University of Copenhagen, Denmark, 2006 – 2007. Fellowship from the Lundbeck Foundation. Current Position: Team Leader, Senior Scientist, Novo Nordisk, Copenhagen. Denmark
6. Kyle Sousa, Ph.D. Karolinska Institute, Sweden, 2007 - 2010. Regenerative Sciences Training Grant (2007-2008). Tissue and Engineering Training Grant (2008-2010). Current Position: Assistant Professor, Assistant Dean of Student Affairs, West Coast University, Department of Pharmaceutical Sciences.
7. Hiroyuki Mori, M.D./Ph.D. Kyushu University, Japan, 2007 – present. Uehara Memorial Foundation Fellowship (2008-2009). Supported by a mentor-based fellowship from the American Diabetes Association (2009-2012). Current Position: Research Assistant Professor.
8. William P. Cawthorn, Ph.D. University of Cambridge, England, 2009 – 2014. Royal Commission for the Exhibition of 1851 (2009-2012). NIH National Research Service Award (declined in favor of Eli Lilly Innovation Fellowship Award (2012-2016). Current Position: Faculty member (Chancellor's Fellow; tenured) at University of Edinburgh.
9. Yao Yao, Ph.D. Shanghai Institute for Biological Science, China. 2011 – 2012. Current Position: Postdoctoral Fellow, Life Sciences Institute, University of Michigan.
10. Erica L. Scheller, D.D.S./Ph.D., University of Michigan, 2011 – 2016. Rackham Travel Grant (2012). ASBMR Presidents's Poster Competition Winner (2013), ASBMR John Haddad Young Investigator Award (2014). K99 DE024178, Neural regulation of skeletal biology and periodontal disease progression in type 1 diabetes (2014-2016). Current position: Assistant Professor at Washington University in St Louis.
11. Sebastian D. Parlee, Ph.D., Dalhousie University, Canada, 2012 – 2016. Center for Organogenesis Non-Traditional Postdoctoral Fellowship (2012 - 2013). Presidential Poster Winner – ENDO2015. Canadian Society of Pharmacology and Therapeutics Travel Bursary (2015), NRC Research Press K.M. Piasfsky Trainee Presentation Award (2015). Current Position. Senior Scientist, Novo Nordisk.
12. Aaron Burr, Ph.D. Wayne State University. 2015 to 2016. Center for Organogenesis T32 Postdoctoral Fellowship (2015-2016). Current Position: Medical Writer, MMS Holdings.
13. Callie Corsa, Ph.D. Washington University in St Louis. 2015 to present. Postdoctoral Fellowship: T32 Multidisciplinary Training Program in Basic Diabetes Research (2015-2017), Postdoctoral Fellowship: American Diabetes Association (2018 to 2021), Annual NORC Symposium Poster Award (2019).
14. Ziru Li, Ph.D. Peking University Health Science Center. 2016 to present. Postdoctoral Fellowship: American Diabetes Association (2018 to 2021), MIP Postdoctoral Award in Research Excellence (2019).
15. Colleen Dugan, Ph.D. University of Michigan. 2016 to 2017. Current Position: Senior Scientist at GlaxoSmithKline.

16. Kenneth Lewis, Ph.D. Wayne State University. 2018 to present. Postdoctoral Fellowship: T32 Developmental Origins of Metabolic Disorders (2018 to 2019). F32 National Research Service Award (2019 to 2021).
17. Rebecca Holme, Ph.D. Medical College of Wisconsin. 2018 to present. Postdoctoral Fellowship: T32 Multidisciplinary Training Program in Basic Diabetes Research (2018 to 2020).

## GRADUATE STUDENTS

1. Sarah E. Ross, Ph.D. 1996 - 2001, Department of Physiology. Natural Sciences and Engineering Research Council Fellow (Canada), Rackham Predoctoral Fellowship, Keystone Travel Award, Susan B. Lipschutz Award for outstanding Female Graduate Student at the University of Michigan, Rackham Travel Awards, University of Michigan Teaching Award, Outstanding Poster Award at Annual Organogenesis Symposia, Department of Physiology Outstanding Teacher Award, Horace H. Rackham School of Graduate Studies Distinguished Dissertation Award (8 awarded out of a pool of ~700). Career Path: Postdoctoral Fellow and Assistant Research Scientist, Harvard Medical School. Currently: Associate Professor, Department of Neurobiology, University of Pittsburg.
2. Robin L. Erickson, M.D./Ph.D. 1997 – 2001, Department of Physiology 2001. Natural Sciences and Engineering Research Council Fellow (Canada), Rackham Predoctoral Fellowship, 2001 award for “Overall Excellence in Research and Service” presented by the Office of Research and Graduate Studies, Keystone Symposia Travel Award, Rackham Travel Award, Horace Davenport Fellowship. Career Path: M.D., University of Alberta; Pediatrics Residency, University of Calgary; Pediatric Nephrology Fellowship, University of Manitoba; Current Position: Pediatric Nephrologist, Associate Professor, University of Saskatchewan, Department of Pediatrics.
3. Christina Bennett, Ph.D. 2000 - 2005, Department of Molecular & Integrative Physiology, Systems in Integrative Biology Training Grant, Rackham Travel Award, Rackham Merit Fellowship, American Diabetes Association Summer Internship Award (2002), Tissue Engineering and Regeneration Training Grant, Porter Fellowship from the American Physiological Society. Rackham Distinguished Dissertation Award: Honorable Mention. Career Path. Postdoctoral Fellow, National Institutes of Health. Current Position: Associate Publisher, Ethics and Policy, American Physiological Society.
4. Jennifer Kennell, Ph.D. 2000 – 2005, Cell and Molecular Biology Program, Cell and Molecular Biology Training Grant, Systems in Integrative Biology Training Grant, Center for Organogenesis Training Grant (Declined), Third Prize for Poster at Annual Cell and Molecular Biology Symposia (2001). Outstanding Abstract for Cancer Center Symposia (selected for short talk), Rackham Travel Award, First Prize for Poster at Annual Cell and Molecular Biology Symposia (2002), Arthur Vander Teaching Award (2002), Rackham Predoctoral Fellowship (2003), 2003 award for “Overall Excellence in Research and Service” presented by the Office of Research and Graduate Studies, Keystone Symposia Travel Fellowship (Mar, 2004), 2004 award for “Overall Excellence in Teaching” presented by the Office of Research and Graduate Studies. Rackham Outstanding Graduate Student



- Instructor Award (2004-2005). Career Path: Postdoctoral Fellow, Ken Cadigan, University of Michigan. Current Position: Associate Professor, Biology Department, Vassar College.
5. Paul DeRose, M.D./M.S. 2001 – 2003, Molecular & Integrative Physiology, Medical Science Training Program, Bean Fellowship, Systems and Integrative Biology Training Grant. Training: PGY2 Radiation Oncology Resident, University of Texas Southwestern Medical Center. Current Position: Radiation Oncologist, Methodist Richardson Cancer Center, Texas.
  6. Sona Kang, Ph.D. 2002 - 2006, Molecular & Integrative Physiology, Jack Lapides Fellowship, Rackham Travel Fellowship (2004), Rackham Predoctoral Fellowship (2005), and Bean Fellowship (2006). Postdoctoral Fellow, Harvard Medical School. Current Position: Assistant Professor, University of California, Berkeley.
  7. Brian (Hyuk) Cha, M.D./Ph.D. 2002 - 2006, Molecular & Integrative Physiology, Medical Science Training Program, Center for Organogenesis Training Fellowship (2004-2006). Residency, University of Michigan, Current position: Academic Dermatologist, St Joseph Mercy Health System.
  8. Tyler Prestwich, D.D.S./Ph.D. 2005 – 2008. Cell and Molecular Biology Program. Cell and Molecular Biology Training Grant, Loeb Predoctoral Fellowship (2006-2007). University of Michigan Regents Fellow (2007-2008). Honorable mention for poster presentation at Annual CMB Symposium (2007). Current Position: Sommers & Prestwich Orthodontics, Minot, ND.
  9. John Petrie, M.S. 2006 – 2009. Molecular & Integrative Physiology, Maas Fellowship, Cellular & Molecular Approaches to Systems and Integrative Biology Training Grant (2006-2008). John Bean Award (2007). Center for Organogenesis Training Fellowship (2008 – 2009). Rackham Graduate Student Research Grant (2008; \$3000). Current Position: American Journal Experts.
  10. Baowen Du, Ph.D. 2009 - 2013. Northwest A&F University, China. Fellowship from China Scholarship Council. Current Position: Postdoctoral Researcher, Chengdu Institute of Biology, Chinese Academy of Science. Current position: Postdoctoral Fellow.
  11. Becky Simon, Ph.D. 2009 – 2013. Cell and Molecular Biology Program, Rackham Merit Fellowship. Cell and Molecular Biology Training Grant (2009-2010). Rackham Graduate Student Precandidate Research Grant (2009). Center for Organogenesis Predoctoral Fellowship (2010-2012). Honorable mention for poster presentation at Annual CMB Symposium (2010). First prize at UM-WSU Physiology Symposium Poster Competition (2011). Second prize for poster presentation at Annual CMB Symposium (2011). Rackham Travel Award (2012). Abstract picked for oral presentation at the American Diabetes Meeting (6/12/12). Postdoctoral Fellow with Dean Brenner, University of Michigan. Current position: Staff Writer, BioCentury, CA.
  12. Adam Bree, M.S. 2011 – 2012. Molecular & Integrative Physiology, Systems and Integrative Biology Training Grant (2011-2012). Rackham Graduate Student Precandidate Research Grant (2012). NIH Predoctoral National Research Service Award (declined). Current position: Dental School, University of Missouri.

13. Ning Xiaomin, Ph.D. 2012 – 2014. Northwest A&F University, China. Fellowship from “Chinese Top University Graduate Students Studying Abroad.”
14. Shaima Khandaker, M.S. 2015 – 2016. Molecular & Integrative Physiology Master’s program. Rackham Graduate Student Research Grant. Current Position: Medical School, Michigan State University.
15. Devika Bagchi, 2015 – present. Molecular & Integrative Physiology, Medical Science Training Program. Center for Organogenesis Predoctoral Fellowship (2016-2018). Tylenol Future Care Scholarship (2016-2017). Rackham Conference Travel Grant. Office of Graduate and Postdoctoral Studies Excellence in Service Award (2017). Arthur Vander Teaching Award (2017), John Williams Service Award (2017). Rackham Conference Travel Grant (2017). Rackham Graduate Student Research Grant (2019).
16. Steven Romanelli, 2017 – present. Molecular & Integrative Physiology. Cellular Biotechnology T32 Training Program (2017 – 2019). Rackham Graduate Student Precandidate Research Grant (2017), Internship at MedImmune, Cambridge, May-August 2018. Rackham Candidate Research Grant (2018). Annual Diabetes Research Center Symposium Poster Award (2019), Annual NORC Symposium Poster Award (2019). F31 National Research Service Award (2019 to 2022).
17. Ameena Benchamana, Ph.D. 2019. Department of Physiology Mahidol University Thailand.

## **EXTERNAL COUNSELOR**

1. Philip Hallenborg. 2005 - 2008. Graduate Student, University of Southern Denmark. Proposed Dissertation Title: Lipxygenases in adipogenesis.
2. Maria S. Boysen. 2005 - 2006. Graduate Student, University of Southern Denmark. Proposed Dissertation Title: Regulation of gene expression by CLA and glucose – implications for type 2 diabetes.
3. Lars Kristensen. 2006 – 2008. Graduate Student, University of Southern Denmark.
4. Malene Olesen. 2008 – 2010. Graduate Student, University of Southern Denmark. Proposed Dissertation Title: Bone-related proteins in the arterial wall in diabetes: The significance of osteoprotegerin (OPG).

## **RESEARCH ROTATIONS**

1. Sarah E. Ross, Department of Physiology, 1996
2. Robin L. Erickson, Department of Physiology, 1997
3. Christina Consolino, Department of Physiology, 1998
4. Daniel Becker, Medical Science Training Program, and Cell and Molecular Biology Training Program, 1998
5. Christina Bennett, Department of Physiology, 2000

6. Jennifer Kennell, Program in Biomedical Sciences, 2000
7. Jonathan Winnay, Program in Biomedical Sciences, 2000
8. Paul DeRose, Medical Science Training Program, 2001
9. Margaret Ochocinska, Program in Biomedical Sciences, 2001
10. So Na Kang, Program in Biomedical Sciences, 2002
11. Erin O’Leary, Program in Biomedical Sciences, 2002
12. Brian (Hyuk) C. Cha, Medical Science Training Program, 2002
13. Nicole Acevedo, Program in Biomedical Sciences, 2002
14. Christa Van Dort, Program in Biomedical Sciences, 2004
15. Tyler Prestwich, Program in Biomedical Sciences, 2005
16. Nathan Palpant, Program In Biomedical Sciences, 2005
17. John Petrie, Program In Biomedical Sciences, 20053
18. Deepti Nagarkar, Program in Biomedical Sciences, 2006
19. Nicole Evans, Program in Biomedical Sciences, 2006
20. Michael Doche, Program in Biomedical Sciences, 2007
21. Andrew Miller, Program in Biomedical Sciences, 2007
22. Jiwon Roh, Program in Biomedical Sciences, 2008
23. Guoxiao (Grace) Wang, Program in Biomedical Sciences, 2008
24. Sarah Kampert, Program in Biomedical Sciences, 2008
25. Amanda Marie Day, Program in Biomedical Sciences, 2009
26. Becky Simon, Program in Biomedical Sciences, 2009
27. Scott Zaweija, Program in Biomedical Sciences, 2010
28. Jun Young Hong, Program in Biomedical Sciences, 2010
29. Gabriel Martinez-Santibanez, Program in Biomedical Sciences, 2010
30. Corinne Weisheit – Program in Biomedical Sciences (2011)
31. Adam Bree – Program in Biomedical Sciences (2011)
32. Mangala Iyengar – Medical Sciences Training Program (2011)
33. Devika Bagchi – Medical Sciences Training Program (2015)
34. Hanh Truong – Program in Biomedical Sciences (2016)
35. Steven Romanelli – Program in Biomedical Sciences (2017)

## VISITING SCIENTISTS

1. Laszlo Bajnok, M.D. 2000 – 2002. University Medical School of Debrecen, Hungary
2. Beatriz Soret, Ph.D. 2006. Public University of Navarra, Spain
3. Minna Huttunen, Ph.D. 2006. University of Helsinki, Finland
4. Amiya Hajra, Ph.D. 2006-2010, University of Michigan
5. Inho Choi, Ph.D. 2011, Yeungnam University, South Korea

## CO-MENTOR

1. Hema Chandrasan, Organogenesis Postdoctoral Fellowship (with Martha Sommerman)
2. Kelly Bromfield, Organogenesis Predoctoral Fellowship (with Sally Camper)
3. Robert Loberg, Systems and Integrative Biology Training Grant (with Frank Brosius)
4. Eileen Vesely, Systems and Integrative Biology Training Grant (with Frank Brosius)
5. Lalitha Subramanian - Postdoctoral Fellowship from American Heart Association (with Jorge A. Iniguez)

6. David Parker, Organogenesis Predoctoral Fellowship (with Ken Cadigan)
7. David Morris, Systems and Integrative Biology Training Grant (with Liangyou Rui)
8. Nathan Palpant, Systems and Integrative Biology Training Grant (with Joe Metzger)
9. Gail Butler, Systems and Integrative Biology Training Grant (with Linda Samuelson)

## SCIENTIFIC AND ADVISORY COMMITTEE

1. Taehwa Chun, M.D., Ph.D. K08 Career Development Award, Department of Internal Medicine, University of Michigan, 2009 to 2011.
2. Emilyn Alejandro, Ph.D. K01. Mentored Research Scientist Development Award. Department of Internal Medicine, University of Michigan. 2014 to 2015
3. Lisa Guth, Ph.D. MEND T32, University of Michigan, 2014 to 2015
4. Eric Buras, M.D. PSTP program, University of Michigan, 2016 – 2019; K08 co-mentor, 2019 to present
5. Michael Schleh, Kinesiology, University of Michigan, 2017
6. Emily Bowers, Immunology T32, Cell & Developmental Biology, 2018 to present.
7. Tristan Maerz, Ph.D. Assistant Professor, Department of Orthopaedic Surgery, 2019 to present.

## GRADUATE COMMITTEES

1. Sarah Ross, Ph.D. – Department of Physiology, 1996-2001 (Chair)
2. Yifei Wu, Ph.D. - Cell and Molecular Biology Program, 1997 - 2000
3. Robin Erickson, MD/Ph.D. Department of Physiology, 1997-2001 (Chair)
4. Eric Tang, MD/Ph.D. - MSTP, and Cell and Molecular Biology Program, 1998 - 2001
5. Karen O'Brien, Ph.D. - Cell and Molecular Biology Program, 1998 - 2002
6. Jacob B. Hansen, Ph.D. - Dept of Mol Biology, Odense Univ., Denmark, 1998 - 2001
7. Glenn Micalizio, Ph.D. - Department of Chemistry, University of Michigan, 1999-2001
8. Heidi Campbell, Ph.D. - Department of Biological Chemistry, 1999-2003
9. Narayani Moorthy, Ph.D. - Cell and Molecular Biology Program, 1999 - 2001
10. Tyler Sisk, Ph.D. - Department of Microbiology and Immunology, 1999 - 2001
11. Jennifer Kennell, Ph.D. – Cell and Molecular Biology Program, 2000 – 2005 (Chair)
12. Christina Bennett, Ph.D. – Department of Physiology, 2000 – 2005 (Chair)
13. Brian Gummow – Ph.D. Department of Physiology, 2001 to 2005
14. Robert Loberg, Ph.D. – Department of Physiology, 2001 to 2003
15. Blair Madison, Ph.D. – Cell and Molecular Biology, 2001 to 2005
16. Anna Mazurkiewicz, Ph.D. – Cell and Molecular Biology Program, 2001 to 2005
17. Jeffrey Huo, Ph.D. – Medical Scientist Training Program. 2001 to 2005
18. Yannan Shen – Department of Biological Chemistry, 2001 to 2003
19. Paul DeRose, MD/MS - Molecular & Integrative Physiology, 2001 to 2003 (Chair)
20. David Van Mater, MD/Ph.D. - Medical Scientist Training Program. 2001 to 2004
21. Kelly Cha, MD/ Ph.D. – Department of Human Genetics. 2001 -2004
22. Mark Ribick, M.S. - Department of Biochemistry, 2002 to 2006
23. Sona Kang, Ph.D. – Molecular & Integrative Physiology, 2001 to 2006 (Chair)
24. Brian Cha, MD/Ph.D. - Medical Scientist Training Program, Department of Molecular & Integrative Physiology, 2001 to 2006 (Chair)
25. Kari Anne Risan Tobin, Ph.D. - University of Oslo, 2002

26. Michael Friedman, Ph.D. - Cell and Molecular Biology Program, 2002 to 2006
27. Jonathan Winnay, Ph.D. – Dept. of Molecular & Integrative Physiology, 2002 to 2005
28. Lara Hall, Doctor of Music Arts (DMA) - School of Music, 2003 to 2005
29. Teresa Cesena, Ph.D. - Cell and Molecular Biology Program, 2003 to 2007
30. Michael Corradetti, Ph.D. – Cell and Molecular Biology Program, 2003 to 2006
31. Zhuoran Zhao, Ph.D. – Oral Health Sciences Program, 2004 to 2006
32. Nicole Slawny, Ph.D. – Cell and Molecular Biology Program, 2004 to 2010
33. Rasmus Peterson, Ph.D. – Dept. of Molecular Biology, Univ. of Southern Denmark, 2005
34. Tyler Prestwich, DDS/Ph.D. – Cell and Molecular Biology Program, 2005 to 2008 (chair)
35. Diana Lungu, D.M.A. – School of Music, Violin Performance, 2005 to 2006
36. David Morris, Ph.D. – Department of Molecular & Integrative Physiology, 2006 to 2009
37. John Petrie, MS – Molecular & Integrative Physiology, 2006 to 2009 (Chair)
38. Hui Li, Ph.D. – Dept. of Molecular, Cellular, and Developmental Biology, 2006 to 2009
39. Kelli VanDussen, Ph.D. – Dept. of Molecular & Integrative Physiology, 2006 to 2010
40. Hailu Shitaye, Ph.D. – Cell and Molecular Biology Program, 2006 to 2009
41. Anna Clark, Ph.D. – Department of Chemistry, 2007 to 2010.
42. Mathew M. Molusky, Ph.D. – Cell and Molecular Biology Program, 2007 to 2011
43. Zhao Lin, DDS/Ph.D. – School of Dentistry, 2007 to 2010
44. Phillip Delekta, Ph.D. – Cell and Molecular Biology Program, 2008 to 2011
45. Jennifer MacKeller, M.S. – Department of Molecular and Integrative Physiology, 2008
46. Erica Scheller DDS/Ph.D. –Oral Health Sciences Program, 2008 to 2011
47. Brent VanderHart – Cellular and Molecular Basis of Human Disease Program, Van Andel Institute, 2008.
48. Michael Doche, Ph.D. – Molecular & Integrative Physiology, 2008 to 2012
49. Becky Simon, Ph.D. – Cell and Molecular Biology Program, 2009 to 2013 (Chair)
50. Baowen Du, Ph.D. – Northwest A&F University, China, 2009 to 2013 (Co-chair)
51. Jon Mowers, MD/Ph.D.- Medical Scientist Training Program, Department of Molecular & Integrative Physiology, 2009 to 2012
52. Jose A. Rodriguez-Nieves – Cell and Molecular Biology Program, 2010 – 2011
53. Guoxiao (Grace) Wang, Ph.D. – Cell and Molecular Biology Program, 2010 -2014
54. Adam Bree, M.S. – Molecular & Integrative Physiology, 2011 to 2012 (Chair)
55. Colleen Dugan, Ph.D. – Department of Chemistry, 2012 to 2016
56. Gabriel Martinez-Santibanez, Ph.D. – Cell and Molecular Biology Program, 2012 to 2015
57. Yuqing Sun – Molecular and Cellular Pathology Program, 2013 to 2014.
58. Anders Haakonsson, Ph.D. – University of Southern Denmark, 2014.
59. Chanisa Thonusin, Ph.D. – Molecular & Integrative Physiology, 2014 to 2017
60. Elizabeth Abshire, Ph.D. – Biological Chemistry, 2015 to 2019
61. Devika Bagchi – Medical Scientist Training Program, Department of Molecular & Integrative Physiology, 2015 to present (Chair)
62. Henry Kuang – Medical Science Training Program, Cell and Development Biology Program, 2016 to present
63. Steven Romanelli – Molecular & Integrative Physiology, 2017 to present (Chair)
64. Helen (Huilin) Wang - Molecular & Integrative Physiology, 2017 to present
65. Hanh Truong, Department of Molecular & Integrative Physiology, 2018 to 2019
66. Victoria Demanbro, Maine Medical, 2018 to present
67. Alivia Wu – Molecular & Integrative Physiology, 2019 to present

## PRELIMINARY/QUALIFYING EXAM COMMITTEES

1. Douglas Johns - Department of Physiology, 1997
2. Daqing Sun - Department of Physiology, 1997
3. Eric Tang –MSTP and Cell and Molecular Biology Program, 1997
4. Yue Ge - Cell and Molecular Biology Program (Chair), 1999
5. Philip E Schaner - Cell and Molecular Biology Program (Chair), 1999
6. Glenn Micalizio - Department of Chemistry, University of Michigan, 1999
7. Brian Gummow - Department of Human Genetics (Chair), 2001
8. Allison Moffa – Cell and Molecular Biology Program, 2001
9. Genevieve Kruger - Cellular and Molecular Biology, 2001
10. Jonathan Winnay - Department of Physiology, 2002
11. Norma DeJesus - Cell and Molecular Biology Program, 2002
12. Nicole Acevedo - Department of Molecular and Integrative Physiology, 2003
13. Phil Palmbo - Cell and Molecular Biology Program, 2003
14. Lymari Lopez-Diaz - Cell and Molecular Biology Program, 2003
15. Rachael Adams – Cell and Molecular Biology Program, 2004
16. Rebecca Leshan – Department of Molecular and Integrative Physiology, 2005
17. Greg Gurda – MSTP and Department of Molecular and Integrative Physiology, 2005
18. Joseph Dosch – Cell and Molecular Biology Program, 2005
19. Steve Yang – Cell and Molecular Biology Program, 2005
20. Anna Clark – Department of Chemistry, 2007
21. Matthew Campbell – Department of Molecular and Integrative Physiology (Chair), 2008
22. Michael Doche – Department of Molecular and Integrative Physiology, 2008
23. Jon Mowers – MSTP and Department of Molecular & Integrative Physiology (Chair), 2009
24. Daniel Chiang – Department of Molecular and Integrative Physiology (Chair), 2009
25. Grace Wang – Cell and Molecular Biology Program, 2010 (Chair)
26. Hilary Archbold – Cell and Molecular Biology Program, 2010
27. Jordan Wright –MSTP and Dept. of Molecular & Integrative Physiology (Chair), 2010
28. Ryan O’Connell - Department of Molecular and Integrative Physiology (Chair), 2010
29. Mie Kasanuki, Cell and Molecular Biology Program (Chair), 2011
30. Alexis Carulli, MSTP and Department of Molecular & Integrative Physiology, (Chair), 2011
31. Danielle Burgenske, Van Andel Institute Graduate School (External Examiner), 2011
32. Colleen Dugan, Department of Chemistry, 2012
33. Kevin Swift, Department of Molecular & Integrative Physiology, 2015
34. Megan Hoffman, Department of Molecular & Integrative Physiology, 2015
35. Stephen Robinson, Department of Biomedical Engineering, 2016
36. Huilun Wang, Department of Molecular & Integrative Physiology, 2017
37. Matthew Sorensen, Department of Chemistry, 2017
38. Hanh Truong, Cell and Molecular Biology Program, 2018
39. Kevin McGowan, Department of Molecular & Integrative Physiology, 2018
40. Michael Schleh, Department of Kinesiology, 2019

### **HIGH SCHOOL, UNDERGRADUATE, and MEDICAL STUDENT RESEARCH PROJECTS**

1. David Hong – UM Undergraduate, 1997
2. Esther Kim - UM Undergraduate, 1997
3. Robert Hennighausen - UM Undergraduate, 1997
4. Zulma Garcia – University of Puerto Rico at Cayey Undergraduate, Minority Biomedical

- Research Program, 1998
5. Lorean Serra - University of Puerto Rico at Cayey Undergraduate, Minority Biomedical Research Program, 1999
  6. Annie Miao – UM Undergraduate, 2002
  7. Nikil Oak, MD – UM Undergraduate, 2003 – 2006. Phys405, Undergraduate Research Opportunity Program, and Cell and Molecular Biology Honors Thesis.
  8. Jacob Miller – UM Undergraduate, 2004. Phys405
  9. Brett Schroederm, M.D. – UM Undergraduate, 2005. Phys405
  10. Mohamad Saghir – UM Medical Student, 2005
  11. Lauren Rapp, MD – UM Undergraduate, Psych331, 2006
  12. Wendy Wong – UM Undergraduate, 2006 – 2009
  13. Laura Munn – UM Undergraduate, 2006 – 2008
  14. Jasmine Zheng, MD – UM Undergraduate, pre-MHIRT program, 2007 – 2008, MCDB 300: Fall 2007, Winter 2008, Fall 2008, and Winter 2009. Fall 2008/Winter2009 - Molecular Cellular and Developmental Biology Honors Thesis
  15. Ammar Salhadar, MD – UM Undergraduate, MCDB 400, Fall 2007; Winter, 2008
  16. Paul Kim – UM Undergraduate, MCDB 300, Fall 2008, Winter 2009
  17. Michael Reid, Ph.D. - UM Undergraduate, 2008-2010, 2009 SURF Fellowship.
  18. Katie Hinchee - Duke University Undergraduate, 2009. SURF Fellowship
  19. Elizabeth Feenstra, MD - Calvin College Undergraduate, 2009, 2010. SURF Fellowships.
  20. David Broome, MD - Michigan State University, 2010. SURF Fellowship.
  21. Abigail Burant - Pioneer High School, 2010
  22. Rachel McWilliams - UM Undergraduate, 2008 to 2013
  23. Michael Stevens - UM Undergraduate, 2009 to 2010
  24. Sandra Soliman - American University of Cairo. SURF Program. 2011.
  25. Khanh San Pham - Pioneer High School, UM, 2010 to 2016.
  26. Alison Su - Dartmouth University, STEP Fellowship. 2012.
  27. Maria Sterrett - Carlton College, SURF Program. 2012.
  28. Austin MacDougald-Tassava - Huron High School, 2012.
  29. Seth Bear – Skyline High School, 2012 to 2013.
  30. Ben Schell – UM Undergraduate, 2013 to 2014.
  31. Wesley Hebert – Norwich College, SURF Program. 2013.
  32. Bofeng Zhang – Johns Hopkins University, STEP Fellowship. 2013.
  33. Hoai An Pham – 2013 – 2017. Pioneer High School, Competed at Pioneer High School (1<sup>st</sup>), SE Michigan Regional (3<sup>rd</sup>), and State of Michigan (3<sup>rd</sup>) Science Fair Competitions. SURF Program (2015).
  34. Shaima Khandaker - UM Undergraduate. UROP, Phys405. 2013-2015.
  35. Lindsay Anderson - UM Undergraduate. Phys306. Winter 2014
  36. Alexandra Washabaugh – Albion College, SURF Program, 2014
  37. Annabel Lemke – UM Undergraduate. UROP, 2014-2015.
  38. Brent Wu – University of Illinois Urbana-Champaign, STEP Fellowship, 2014
  39. Matthew Oram – Calvin College, SURF Program, 2015
  40. Samira Monavvari – Central Michigan Medical School, 2015
  41. Michael Breed – UM Undergraduate. UROP, Phys306, 2015 to 2017
  42. Destiny Stewart – University of Michigan, SURF Program, 2016
  43. Catherine Salamon, University of Michigan – Flint, STEP program, 2016, 2017

44. Akira Nishii, University of Michigan. STEP Program (2017), MCDB400 (2018), SURF Program, 2018
45. Audrey Cheng, University of Aberdeen, SURF Program, 2017
46. Sara Kitterman, Aquinas College, SURF Program, 2017
47. Matthew Askar, UM Undergraduate, STEP Program, 2017
48. Natalie Gaines, UM Undergraduate, IntMed499, 2018. SURF Program, 2018
49. Johena Sanyal, UM Undergraduate, UROP, 2018 - 2019
50. Jihan Khandaker, UM Undergraduate, UROP, 2018 – 2019
51. Katrina Granger, UM Undergraduate, SURF Program 2019
52. Landon Belanger, Quest University, SURF Program, 2019.
53. Jack Visser, Calvin College, SURF Program, 2019.
54. Thomas Cadenhead, STEP Program, 2019

## **SERVICE:**

### **Department of Molecular & Integrative Physiology**

Graduate Affairs Committee, 1997-2001, 2004 – 2005, 2006-2008  
Seminar Series Coordinator, 1998-2001  
Space Committee, 1998-2000, 2000-2001 (Chairperson)  
Physiology Faculty Search Committee, 1999-2000  
Chair's Advisory Committee, 2001-2005, 2006 - 2011  
Departmental Faculty Mentor: Liangyou Rui, 2002 – 2010  
Faculty Search Committee, 2008  
Departmental Faculty Mentor: Ken Inoki, 2008 to 2011  
Director of Graduate Studies, 2008 to 2011  
Sewell Collegiate Chair Search Committee, 2012  
Director of Summer Undergraduate Research Fellowship (SURF), 2009 – 2016  
Co-director of SURF program (with Y. Shah), 2017  
Co-director of STEP undergraduate research program (with S. Schnell), 2010 to present  
MIP Awards Committee, 2012 – 2013, 2014-present  
Alumni Relations Committee, Chair. 2012 to present  
Departmental Faculty Mentor: Jun Wu, 2013 to 2018  
John A Faulkner Lectureship Committee, 2015 to present

### **School of Medicine**

Program in Biomedical Sciences: International Applicant Evaluation Committee, 1999- 2002  
Summer Research Opportunity Program: Applicant Evaluation Committee, 1999  
Cell and Molecular Biology Program: Organization of the Annual Symposium, 2000  
Department of Physiology Internal Review, 2000-2001  
Reviewer for University of Michigan BMRC grants program, 2000  
Reviewer for University of Michigan OVPR Faculty Grants and Proposals, 2000  
Reviewer for MDRTC Pilot Grant Proposal, 2001  
Basic Science Research Building: Luncheon to discuss building design, 2001  
Postdoctoral Seminar Series: "For Graduate Students: Finding a Post-doc Position," 2002  
Metabolomics Seminar Series: Operating Committee, 2005  
Metabolomics and Obesity Center: Organizing Committee, 2005 to 2010  
Metabolomics and Obesity Center: Steering Committee, 2005 to 2010  
Cell and Molecular Biology Annual Symposium: Poster Evaluation, 2006  
Reviewer for OVPR Faculty Grants, 2006



Program in Biomedical Sciences: Applicant Evaluation Committee, 2007 – 2011  
 Program in Biomedical Sciences: Operating Committee, 2009 to 2011  
 Cell and Molecular Biology Program Committee, 2007-2010  
 Nutrition and Obesity Research Center Planning Committee, 2008 to 2010  
 Dean's Review Committee: Center for Organogenesis, 2008 - 2009  
 Center for Integrative Genomics: Operating Committee, 2008 to 2010  
 Search Committee; Director of the Center for Organogenesis, 2009  
 Metabolomics and Obesity Center: Review Committee for Pilot/Feasibility Grants, 2009, 2010  
 Program In Biomedical Sciences: PREVIEW Selection Committee, 2009  
 Systems and Integrative Biology Training Grant Operating Committee, 2008 - 2013  
 Associate Director, SIB Training Grant, 2008 to 2011  
 Center for Organogenesis: Review of Postdoctoral Fellowship applications, 2010  
 Obesity Club: Host for seminar series, Winter 2012  
 Search Committee: Director of the Cell and Molecular Biology Program, 2012  
 FastForward Initiative: Co-champion with Burant, Myers, and Lumeng. 2012  
 65<sup>th</sup> Anniversary of the Fulbright Program in Italy: Presentation on PIBS and MIP graduate programs, University of Udine, Italy. November 21, 2013  
 Biological Sciences Scholars Program (BSSP) search committee, 2014 to 2016  
 Executive Committee: Multidisciplinary Training Program in Basic Diabetes Research, 2014 to 2015.  
 Internal Medicine Physician Scientist Program: Interviewed candidates, Dec 2014.  
 Center for Organogenesis: Review of Predoctoral Fellowship applications, 2015.  
 Center for Organogenesis: Steering Committee, 2015-present  
 Director, Pilot & Feasibility Grant Program, MNORC, 2011 – 2013, 2014 to present  
 Diabetes Research Center P&F grant review panel, 2011, 2012, 2014 to present  
 Eli Lilly External Innovation/Academic Collaboration: Organized and chaired, 2016  
 Search Committee: Chief Scientific Officer of UM Medical School, 2016 to 2017  
 Internal Advisory Panel: P30AR069620; Musculoskeletal Center, 2016 to present  
 Diabetes Research Center Molecular Genetics Core: Advisory Committee, 2017 to present  
 Candidate evaluation: Internal Medicine Physician Scientist Program, 2017  
 Director: Multidisciplinary Training Program in Basic Diabetes Research, 2015 to present  
 Director: White adipose tissue core, MNORC, 2018 to present

### **University of Michigan**

University of Michigan Health System Strategic Planning Committee: Research, 1999  
 LSI Cell Biology Task Force, 2002 to 2004  
 Operating Committee: Tissue Engineering and Regeneration Training Grant, 2002 - 2005  
 Operating Committee: Cell and Molecular Biology Core, MDRTC, 2002- 2010  
 Promotions Committee: Jean-Marie Rouillard, Department of Chemical Engineering, 2006  
 Science and Technology Excellence Program, 2007 – 2008, 2010  
 Search Advisory Committee for Dean, Division of Kinesiology, 2008  
 Rackham Graduate School: Predoctoral Fellowship review committee, 2009, 2010  
 Rackham Graduate School: Faculty Recognition Awards Committee, 2012, 2013  
 Rackham Graduate School: MORE (Mentoring Others Results in Excellence) Committee, 2012 - 2013  
 Reviewer for University of Michigan Regional Comprehensive Metabolomics Resource Core (MRC2) Pilot and Feasibility Grant Program, April 2014  
 Life Sciences Institute Promotions Review Committee, 2012, 2014, 2015

Intramural seminars presented to Pediatrics (2001), Cell and Developmental Biology (2005), Endocrine Division of Pediatrics (2006), Molecular, Cellular and Developmental Biology (2008), Nephrology Division of Internal Medicine (2014), Metabolism, Endocrinology and Diabetes Division of Internal Medicine (2015), Musculoskeletal Research in Progress (2016), and First Annual Michigan Musculoskeletal Symposium (2017)  
American Diabetes Association Pathway Award: UM internal selection committee, 2016-present  
Michigan Regional Comprehensive Metabolomics Research Core: Pilot and Feasibility Grant Reviewer, 2016  
Musculoskeletal Symposium: Poster judge, April 6, 2018  
M-Diabetes Executive Committee Member: 2019 to present  
M-Diabetes Education Committee Co-director: 2019 to present  
Poster Judge: MNORC and MSK annual symposia, 2019

### **EXTRAMURAL INVITED PRESENTATIONS**

- 1) 18th Annual Johns Hopkins In-House Cell Biology Symposium, June 1994.
- 2) Mid-Atlantic Diabetes Research Symposium, NIH, September 1994. “Regulation of C/EBP $\alpha$  Transcription by Glucocorticoids in 3T3-L1 Adipocytes and White Adipose Tissue”
- 3) National Institute on Aging (Diabetes Unit), October 1994. “Regulated Expression of the *obese* Gene Product (Leptin) in White Adipose Tissue and 3T3-L1 Adipocytes”
- 4) University of California at Davis, Dept of Molecular Medicine, October 1994. “Transcriptional and Posttranslational Regulation of C/EBP $\alpha$  in 3T3-L1 Adipocytes”
- 5) Indiana University School of Medicine, Dept of Biochemistry, February 1995. “Transcriptional and Posttranslational Regulation of C/EBP $\alpha$  in 3T3-L1 Adipocytes”
- 6) University of Michigan School of Medicine, Dept. of Physiology, March 1995. “Transcriptional and Posttranslational Regulation of C/EBP $\alpha$  in 3T3-L1 Adipocytes”
- 7) University of California at Berkeley, Dept. of Nutrition, April 1995. “Transcriptional and Posttranslational Regulation of C/EBP $\alpha$  in 3T3-L1 Adipocytes”
- 8) Endocrine Grand Rounds at the Johns Hopkins Hospital: November 1995. “Role of Leptin in Obesity”
- 9) Parke-Davis Pharmaceutical Research, Signal Transduction Dept., Ann Arbor MI: December 1996. “Transcriptional and Posttranslational Regulation of C/EBP $\alpha$  in 3T3-L1 Adipocytes”
- 10) Odense University, Denmark: September 13-15, 1998 (Symposium on Transcriptional Regulation and Cellular Differentiation). “Transcriptional and Posttranslational Regulation of C/EBP $\alpha$  in 3T3-L1 Adipocytes”
- 11) Cayey University, Dept. of Biology, Puerto Rico, February 1999. “Transcriptional and Posttranslational Regulation of C/EBP $\alpha$  in 3T3-L1 Adipocytes”

- 12) University of Guelph, Dept. of Nutrition, Canada, May 12, 1999. "Role of C/EBP $\alpha$  in Adipocyte Development and Metabolism"
- 13) Steenbock Symposium on Adipocyte Biology and Hormone Signaling, University of Wisconsin, Madison WI, June 1999. "Role of C/EBP $\alpha$  in Adipocyte Development and Metabolism"
- 14) Case Western Reserve University, Dept. of Nutrition, September 1999. "Role of C/EBP $\alpha$  in Adipocyte Development and Metabolism"
- 15) Keystone Meeting on Molecular Control of Adipogenesis and Obesity, Taos, New Mexico, February 2000. "Inhibition of Adipogenesis by Wnt Signaling"
- 16) University of Minnesota School of Medicine, Dept. of Biochemistry, April 2000. "Inhibition of Adipogenesis by Wnt Signaling"
- 17) Texas A&M University, Nutritional Sciences Program, April 2000. "Inhibition of Adipogenesis by Wnt Signaling"
- 18) R&D Systems, Minneapolis, June 2000. "Inhibition of Adipogenesis by Wnt Signaling"
- 19) University of Illinois, Department of Nutrition, December 6, 2000 "Inhibition of Adipogenesis by Wnt Signaling"
- 20) Novo Nordisk – Boehringer Ingelheim Obesity Symposium, Copenhagen, Denmark. January 14-16, 2001 Two seminars entitled: "Inhibition of Adipogenesis by Wnt Signaling" and "Genetic Cascades during Adipogenesis"
- 21) Johns Hopkins University School of Medicine, Dept. of Biological Chemistry, January 30, 2001. "Inhibition of Adipogenesis by Wnt Signaling"
- 22) University of Southern Denmark, Odense Denmark, Dept. of Molecular Biology. March 15, 2001. "Inhibition of Adipogenesis by Wnt Signaling."
- 23) University of Alberta, Edmonton, Canada, Graduate Student/Postdoctoral Fellow Symposium. CIHR Group on the Molecular and Cell Biology of Lipids, April 23, 2001. "Inhibition of Adipogenesis by Wnt Signaling."
- 24) Arkansas Cancer Research Center, May 14, 2001. "Inhibition of Adipogenesis by Wnt Signaling."
- 25) Wnt Meeting 2001. Memorial Sloan-Kettering Cancer Center. New York NY, May 18-20, 2001, "Use of Microarray Analyses to Identify Wnt-Regulated Transcriptional Repressors that Inhibit Adipogenesis."

- 26) 61<sup>st</sup> American Diabetes Association, Philadelphia, PA, June 22-26, 2001. Inhibition of Adipogenesis by Wnt Signaling.
- 27) Kyoto University, Kyoto, Japan, Department of Medicine and Clinical Medicine, August 17, 2001. "Regulation of Fat Cell Development: Molecular Analyses of C/EBP $\alpha$ ."
- 28) 6<sup>th</sup> Annual Adiposcience Meeting, Osaka, Japan, August 18, 2001. "Regulation of Fat Cell Development: Role of Wnt Signaling."
- 29) Sumitomo Pharmaceutical Co., Ltd., Osaka, Japan, August 20, 2001. "Regulation of Fat Cell Development: Molecular Analyses of C/EBP $\alpha$ ."
- 30) Biocenter Oulu, Finland. October 25, 2001. "Regulation of Fat Cell Development: Role of Wnt Signaling."
- 31) 4th Nordic Meeting on Medical and Biochemical Aspects of Lipid Metabolism at Rokua (Oulu), Finland, October 25-17 2001. "Regulation of Fat Cell Development: Role of Wnt Signaling."
- 32) Keystone Symposium on Molecular Control of Adipogenesis and Obesity, January 10-16, 2002. "Wnt Signaling in Regulation of Adipogenesis." Keystone, Colorado.
- 33) Pennington Research Institute, Baton Rouge, LA. February 28, 2002. "Regulation of Adipogenesis: Role of C/EBP $\alpha$  and Wnt Signaling."
- 34) Harvard Institutes of Medicine, Division of Hematology/Oncology, Boston, MA, May 22, 2002. "Regulation of Adipose Tissue Development by Wnt Signaling."
- 35) University of Southern Denmark, Department of Molecular Biology, Odense Denmark. June 14, 2002, "Regulation of Adipose Tissue Development by Wnt Signaling."
- 36) AstraZenica R&D. Gothenberg, Sweden, June 17, 2002. "Regulation of Adipocyte Differentiation and Metabolism by LXR $\alpha$ ."
- 37) International Congress on Obesity, Sao Paulo, Brazil, August 24-29, 2002. "Wnt Signaling in Regulation of Adipose Tissue Development."
- 38) Vanderbilt University, Vanderbilt Diabetes Center and Department of Molecular Physiology and Biophysics. September 19, 2002. "Wnt Signaling in Regulation of Adipocyte Development."
- 39) University of Oslo, Norway, Institute for Nutrition Research, October 7, 2002. "Role of Wnt Signaling in Adipocyte Development."
- 40) University of Bergen, Norway, Department of Clinical Biochemistry, October 9, 2002. "Role of Wnt Signaling in Adipocyte Development."

- 41) European Council for Blood Pressure and Cardiovascular Research, Seeheim, Germany, October 11-13, 2002. "Role of Wnt Signaling in Adipocyte Development."
- 42) University of Pennsylvania School of Medicine, Diabetes Research Seminar, December 10, 2002. "Role of Wnt Signaling in Adipocyte Development."
- 43) Michigan State University, Department of Physiology, January 16, 2003. "Regulation of Adipose Tissue Development by Wnt Signaling."
- 44) University of Southern California, Biomedical Research Seminar Series, Center for Cranial-Facial Research. February 3, 2003. "Regulation of Adipose Tissue Development by Wnt Signaling."
- 45) National Institute on Aging, Intramural Program, Baltimore, MD. March 7, 2003. "Regulation of Adipose Tissue Development by Wnt Signaling."
- 46) Medical College of Ohio, Molecular Basis of Disease Seminar Series, Toledo, OH. April 15, 2003. "Wnt signaling: Role in adipose, bone, and muscle development."
- 47) University of Alabama at Birmingham. Department of Cell Biology. May 7, 2003. "Wnt signaling: Role in adipose, bone, and muscle development."
- 48) Centocor, Inc. Malvern, PA. May 29, 2003. "Role of Wnt Signaling in Development of Adipose, Bone, and Muscle."
- 49) Pfizer, Inc. Groton, CT. August 11, 2003. "Role of Wnt Signaling in Development of Adipose, Bone, and Muscle."
- 50) American Society for Bone and Mineral Research Plenary Lecture. Minneapolis, MN, September 20-23, 2003. "Role of Wnt10b in Development of Adipose Tissues and Bone."
- 51) North American Association for the Study of Obesity. Fort Lauderdale, FL. October 11-15, 2003. "Role of Wnt Signaling in Adipose Tissue Development."
- 52) University of Indiana School of Medicine, Department of Biochemistry, Indianapolis, IN, December 1, 2003. "Role of Wnt Signaling in Development of Adipose Tissue, Bone, and Muscle."
- 53) Eli Lilly and Company, Division of Gene Regulation, Bone, & Inflammation, Indianapolis, IN, December 3, 2003. "Role of Wnt Signaling in Development of Adipose Tissue, Bone, and Muscle."
- 54) University of Connecticut Health Center, Division of Endocrinology & Metabolism, Endocrine Scholar's Seminar. Farmington, CT, January 13, 2004. "Role of Wnt Signaling in Development of Adipose Tissue, Bone, and Muscle."

- 55) Albert Einstein College of Medicine, Department of Cell Biology. Bronx, NY, January 14, 2004. "Role of Wnt Signaling in Development of Adipose Tissue, Bone, and Muscle."
- 56) Keystone Symposia on Molecular Control of Adipogenesis and Obesity, March 4-10, 2004. "Role of Wnt10b in Development of Adipose Tissues and Bone." Banff, Alberta, Canada.
- 57) Proskelia, Paris France, March 18<sup>th</sup> 2004: Role of Wnt Signaling in Fate of Mesenchymal Stem Cells
- 58) Frontiers of Skeletal Biology, 10<sup>th</sup> Workshop on Cell Biology of Bone and Cartilage in Health and Disease. Davos, Switzerland, March 20-24, 2004."Role of Wnt10b in development of adipose tissues and bone."
- 59) University of Illinois at Chicago, Department of Medicine. Chicago, IL. April 20, 2004. Role of Wnt Signaling in Development of Adipose Tissues and Bone.
- 60) Symposium on Molecular and Physiological Aspects of Type II Diabetes and Obesity – Nobel Forum. Stockholm Sweden. May 7, 2004. Role of Wnt Signaling in Development of Adipose Tissues and Bone.
- 61) The Wnt Meeting, Ann Arbor, MI. May 20 –23, 2004. Role of Wnt Signaling in Development of Adipose Tissue and Bone.
- 62) 86<sup>th</sup> Annual Meeting of the Endocrine Society. New Orleans, LA. June 16 – 19, 2004. Role of Wnt Signaling in Development of Adipose Tissues and Bone.
- 63) Wyeth Research, Collegeville PA. July 13, 2004. Role of Wnt Signaling in Development of Adipose Tissues and Bone.
- 64) ProStraken Pharma, Romainville, France. October 21, 2004. On the Relationship Between Osteoblastogenesis and Adipogenesis.
- 65) North American Association for the Society of Obesity. Las Vegas, NV, Nov 14-18, 2004. "Role of LXRs and Wnts in Adipocyte Biology.
- 66) Case Western Reserve University. Department of Genetics. Cleveland, OH. December 15, 2004. Role of Wnt Signaling in Development of Adipose Tissues and Bone.
- 67) Jackson Laboratories. Bar Harbor, Maine. December 16, 2005. Role of Wnt Signaling in Development of Adipose Tissues and Bone.
- 68) Proctor & Gamble Pharmaceuticals, Inc. January 26, 2005. Role of Wnt Signaling in Development of Adipose Tissues and Bone.
- 69) Bowditch Lecture, Experimental Biology Meeting, San Diego, CA. April 3, 2005. Role of Wnt Signaling in Development of Adipose Tissues and Bone.

- 70) Ottawa Health Research Institute, Ontario, Canada. May 2, 2005. Role of Wnt Signaling in Development of Adipose Tissues and Bone.
- 71) Cellular Niches Workshop, NIDDK. May 16-17, 2005. Role of Wnt Signaling in Development of Adipose Tissues and Bone.
- 72) Centocor, Inc. Malvern, PA. May 18, 2005. Role of Wnt Signaling in Development of Adipose Tissues and Bone.
- 73) International Bone and Mineral Society and European Calcified Tissue Society Plenary Lecture. Geneva Switzerland, June 25-29, 2005. "Role of Wnt signaling in development of bone."
- 74) BMB-BioLigands Symposium on LXRs and PPARs, Odense, Denmark, June 30, 2005. "LXRs in adipose tissue biology and beyond."
- 75) University of Southern Denmark Graduate School in Metabolism. Nyborg. September 8, 2005 Plenary Lecture: Role of Wnt signaling in development of adipose tissues and bone.
- 76) University of Dundee, Scotland. September 13, 2005, Role of Wnt signaling in development of adipose tissues and bone.
- 77) State University of New York, Department of Pharmacology. Stony Brook, NY. October 18, 2005. Role of Wnt signaling in development of adipose tissues and bone.
- 78) Society for Women's Health Research-ISIS Fund Network on Metabolism. Washington, D.C. November 4, 2005. Role of Wnt signaling in development of adipose tissues and bone.
- 79) University of Kentucky, Graduate Program in Nutritional Sciences, Lexington, KY, November 17, 2005. Role of Wnt signaling in development of adipose tissues and bone.
- 80) Medical University of Ohio, Toledo, OH, December 13, 2005. Role of Wnt signaling in development of adipose tissues and bone.
- 81) Keystone Symposium: Adipogenesis, Obesity and Inflammation. January 21 – 26, 2006. Vancouver, British Columbia. Role of Wnt signaling in development of adipose tissues and bone.
- 82) Michigan State University, Department of Animal Science, East Lansing, MI, February 23, 2006. Role of Wnt signaling in development of adipose tissues and bone.
- 83) Society of Toxicology, San Diego, CA. Mar 5-9, 2006. An overview of obesity and adipose development.
- 84) University of Arkansas Medical Center (Keynote Speaker, Student Research Forum), April 6, 2006, Role of Wnt signaling in development of adipose tissues and bone.
- 85) Eli Lilly and Company, Division of Gene Regulation, Bone, & Inflammation, Indianapolis, IN, May 17, 2006. "Role of Wnt Signaling in Development of Adipose Tissues and Bone."

- 86) The 134<sup>th</sup> Nobel Symposium: "The Adipocyte a Multifunctional Cell," Göteborg, Sweden, August 6-9, 2006. "Role of Wnt Signaling in Development of Adipose Tissues and Bone."
- 87) University of Nebraska NSF-EPSCoR Symposium. Omaha, NE, March 21, 2007.
- 88) American Diabetes Association National Meeting, "Regulation of Adipocyte Metabolism by MicroRNAs." Chicago, June 22-26, 2007.
- 89) Stedman Nutrition and Metabolism Center at Duke, December 11, 2007, "Wnt signaling and regulation of adipocyte differentiation and metabolism."
- 90) Keystone Symposium: Molecular Mechanisms of Adipogenesis and Obesity, Feb. 19-24th 2008, Banff Canada
- 91) Wayne State University. Department of Physiology, March 27 2008. "Wnts and MicroRNAs in adipocyte biology"
- 92) 35th Annual Association of Graduate Students in Biological Science Symposium, York University, Canada, March 29<sup>th</sup>, 2008. "Wnts and microRNAs in adipocyte biology"
- 93) University of California-Berkeley. Department of Toxicology and Nutritional Sciences, April 9<sup>th</sup> 2008. "Wnts and MicroRNAs in adipocyte biology"
- 94) NIDDK symposium on "The establishment, maintenance and turnover of fat depots" May 21-22, 2008. Bethesda MD
- 95) The 2<sup>nd</sup> International Conference on Osteoimmunology: Interactions of the Immune and Skeletal Systems, June 8 – 13, 2008, Rhodes Greece.
- 96) Van Andel Research Institute – August 20, 2008. "Roles for Wnt signaling in adipose tissues and bone." Grand Rapids, MI.
- 97) New Frontiers in Skeletal Research: Bone, Fat, and Brain Connections. April 27-28, 2009. "Roles for Wnt signaling in adipose tissue." Bethesda MD
- 98) Keystone Symposium on Adipose Tissue Biology, January 24-29, 2010. Keystone Colorado.
- 99) INSERM-sponsored meeting on "Adipose Tissue: a key target for prevention of the metabolic syndrome." Toulouse, France June 3 – 5, 2010.
- 100) 92<sup>nd</sup> Annual Meeting of the Endocrine Society, June 19-22, 2010. Roles for Wnt Signaling in Adipocyte Differentiation and Metabolism. San Diego, CA
- 101) Wayne State University. Endocrine Grand Rounds. Dec 1, 2010. Roles for Wnt Signaling in Adipocyte Differentiation and Metabolism.
- 102) Sanford/Burnham Medical Research Institute, Orlando, FL. March 17<sup>th</sup>, 2011.



- 103) 12<sup>th</sup> Annual Research Day, Yale Core Center for Musculoskeletal Disorders, New Haven, CT. April 21, 2011.
- 104) University of Chicago Medical Center/ Molecular Metabolism and Nutrition Seminar Series. May 10-11, 2011.
- 105) 34<sup>th</sup> Steenbock Symposium “Lipid Metabolism: Implications in Human Diseases” University of Wisconsin-Madison. May 22-25, 2011.
- 106) Obesity Society Meetings, “Role of Sweet Taste Receptors in Adipocyte Differentiation and Metabolism” Orlando, FL. October 1-5, 2011.
- 107) Yeungnam University, “Role of Sweet Taste Receptors in Adipocyte Differentiation and Metabolism” South Korea. Oct 20/21, 2011.
- 108) Institute of Biomedical Sciences, Fudan University Shanghai Medical College. China, Oct 24, 2011. “Roles for sFRP5 and sweet taste receptors in adipocyte differentiation and metabolism.”
- 109) Eli Lilly & Company, February 14<sup>th</sup>, 2012. “Roles for sFRP5 and sweet taste receptors in adipose tissue biology.” Indianapolis, IN.
- 110) 57<sup>th</sup> Annual Meeting of the Plastic Surgery Research Council. June 14<sup>th</sup>, 2012. “The role of sweet taste receptors in adipose tissue biology.” Ann Arbor, MI.
- 111) The 58<sup>th</sup> Benzon Symposium: Adipose Tissue in Health in Disease. “Role of Sweet Taste Receptors in Adipocyte Differentiation and Metabolism.” August 27 – 30, 2012 Copenhagen, Denmark.
- 112) Duquesne University, “Role of Sweet Taste Receptors in Adipocyte Differentiation and Metabolism.” Pittsburg, PA. Nov 2<sup>nd</sup>, 2012
- 113) The Scripps Research Institute, “Role of Sweet Taste Receptors in Adipocyte Differentiation and Metabolism.” La Jolla, CA, Dec 13<sup>th</sup>, 2012.
- 114) University of Pennsylvania, “Role of Sweet Taste Receptors in Adipocyte Differentiation and Metabolism.” Philadelphia, PA, Feb 5<sup>th</sup> 2013
- 115) University of Wisconsin. “Role of Sweet Taste Receptors in Adipocyte Differentiation and Metabolism.” Madison, WI Mar 21<sup>st</sup>, 2013
- 116) Michigan Diabetes Research Center Annual Symposium. “Recent insights into adipose tissue biology.” April 27<sup>th</sup> 2013. Ann Arbor
- 117) 33<sup>rd</sup> Blankenese Conference. Nutrient Sensing: from brain to gut. “Role of Sweet Taste Receptors in Adipose Tissue Biology.” Hamburg Germany, May 25-29 2013

- 118) Sahlgrenska Center for Cardiovascular and Metabolic Research, University of Gothenburg, “Recent insights into adipose tissue biology.” Sweden. May 30<sup>th</sup>, 2013
- 119) 73<sup>rd</sup> Annual Meeting of the American Diabetes Association, “Role of sweet taste receptors in adipocyte differentiation and metabolism.” Chicago Illinois. June 21-25, 2013
- 120) Annual Meeting of the American Society for Bone and Mineral Research, “Marrow adipose tissue: endocrine functions and metabolism. Baltimore, Maryland, USA. October 4-7, 2013
- 121) Institute of Metabolic Science, University of Cambridge, “Marrow adipose tissue – more than just candy for canines?” Cambridge, U.K. Nov 14<sup>th</sup>, 2013.
- 122) 65<sup>th</sup> Anniversary of the Fulbright Program in Italy. Fulbright Lecture: Marrow adipose tissue: metabolism and endocrine functions. University of Udine, Italy. November 21, 2013.
- 123) European UnionFP7 BetaBAT consortium symposium: Examining inter-organ crosstalk and cellular dysfunction in metabolic disease. “Marrow Adipose Tissue: Metabolism and Endocrine Functions,” Cambridge, U.K. December 10, 2013.
- 124) British Heart Foundation Workshop on Fat Cell Fate to Function. “Marrow Adipose Tissue: Metabolism and Endocrine Functions,” University of Edinburgh, U.K. Dec 12-13, 2013.
- 125) Fulbright Scholar’s Symposium. “Do saccharin and/or sweet taste receptors influence susceptibility to obesity?” University of Durham, U.K. January 6-10, 2014.
- 126) Center for Cardiovascular Science, “Marrow Adipose Tissue: Metabolism and Endocrine Functions,” University of Edinburgh, U.K. Feb 4, 2014.
- 127) Rowett Institute for Nutritional Sciences, “Marrow Adipose Tissue: Metabolism and Endocrine Functions,” University of Aberdeen, U.K. April 29, 2014.
- 128) Syddansk University, “Marrow Adipose Tissue: Metabolism and Endocrine Functions,” Odense, Denmark. May 2, 2014.
- 129) Royal Swedish Academy of Sciences Key Symposium: Molecular and clinical prediction of the risk for osteoporotic fractures. “Marrow Adipose Tissue: Metabolism and Endocrine Functions,” Stockholm, Sweden. June 3 - 4, 2014.
- 130) Distinguished Lecture – Henry Ford Hospital/Wayne State University. “Marrow Adipose Tissue: Metabolism and Endocrine Functions,” Detroit, MI, Sept 4, 2014.

131) Lipodystrophy in 2014: Leptin and Beyond. “Marrow Adipose Tissue: Metabolism and Endocrine Functions,” Ann Arbor MI Oct 17-19, 2014.

132) Obesity Week - Annual Meeting of the Obesity Society. “Development, endocrine functions, and metabolism of marrow adipose tissue” Boston, MA. Nov 2-7, 2014.

133) Pennington Biomedical Research Center. “Development, endocrine functions, and metabolism of marrow adipose tissue” Baton Rouge LA Feb 5<sup>th</sup>, 2015.

134) 99<sup>th</sup> Annual Meeting of the Endocrine Society. “Development, endocrine functions, and metabolism of marrow adipose tissue” San Diego CA, March 5 – 8, 2015.

135) Wayne State University, Department of Pharmaceutical Sciences, “Development, endocrine functions, and metabolism of marrow adipose tissue.” Detroit, MI. April 15, 2015.

136) Washington University in St. Louis, “Development, endocrine functions, and metabolism of marrow adipose tissue.” St. Louis, MO. April 23, 2015.

137) University of Southern California, Department of Pharmacology and Pharmaceutical Sciences, “Development, endocrine functions, and metabolism of marrow adipose tissue” May 8, 2015.

138) Plenary Lecture – Annual Meeting of Michigan Community College Biologists, “Development, endocrine functions, and metabolism of marrow adipose tissue” MacMullen Conference Center, Roscommon, MI. May 30<sup>th</sup>.

139) 75<sup>th</sup> Annual Meeting of the America Diabetes Association, “Development, endocrine functions, and metabolism of marrow adipose tissue” Boston, MA. June 5 - 9, 2015.

140) University of Illinois at Chicago, Department of Physiology and Biophysics, “Development, endocrine functions, and metabolism of marrow adipose tissue.” Chicago, IL. July 9, 2015.

141) Metabolic Signaling & Disease: From Cell to Organism, “Development, endocrine functions, and metabolism of marrow adipose tissue.” Cold Spring Harbor Laboratory. August 11 – 15, 2015.

142) University of Toledo, Center for Diabetes and Endocrine Research, “Development, endocrine functions, and metabolism of marrow adipose tissue.” Toledo, OH. October 7, 2015.

143) Medical College of Wisconsin, “Development, endocrine functions, and metabolism of marrow adipose tissue.” Milwaukee, WI. October 15, 2015.

- 144) Tumor Biology and Microenvironment Program, Annual Research Retreat – Karmanos Cancer Institute, “Development, endocrine functions, and metabolism of marrow adipose tissue.” November 18<sup>th</sup>, 2015 (Keynote).
- 145) University of Illinois at Urbana-Champaign, Department of Molecular & Integrative Physiology. “Development, endocrine functions, and metabolism of marrow adipose tissue.” Urbana-Champaign, IL December 3, 2015.
- 146) Plenary lecture: 100<sup>th</sup> Annual Meeting of the Endocrine Society. “Development, endocrine functions, and metabolism of marrow adipose tissue.” Boston, MA. April 1 to 4, 2016.
- 147) Experimental Biology 2016. Bodil Schmidt-Neilsen Award Presentation: “Mentoring Tips from a Fat Physiologist.” San Diego, CA April 2 – 6, 2016.
- 148) 18<sup>th</sup> European Congress of Endocrinology, “Development, endocrine functions, and metabolism of marrow adipose tissue.” Munich, Germany. May 28 – 31, 2016
- 149) International Symposium on Mesenchymal Stem Cell Differentiation. “Development, endocrine functions, and metabolism of marrow adipose tissue.” Odense, Denmark. June 27 – 28, 2016
- 150) University of Utah, Seminars in Metabolism. “Development, endocrine functions, and metabolism of marrow adipose tissue.” Salt Lake City, UT, November 17, 2016.
- 151) Symposium on Functional Genomics and Metabolism. “Raindrops on roses.” University of Southern Denmark, Odense, Denmark. June 6-7, 2017.
- 152) Novo Nordisk. “Development, endocrine functions, and metabolism of marrow adipose tissue.” Copenhagen, Denmark. June 8, 2017. 153) Neurobiology of Obesity Symposium. “Effects of environmental temperature and vertical sleeve gastrectomy on marrow adipose tissue.” Aberdeen Scotland. Aug 16-18, 2017.
- 153) 39<sup>th</sup> Annual Molecular and Cellular Biology Graduate Student Symposium, Baylor College of Medicine, “Development, endocrine functions, and metabolism of marrow adipose tissue.” Houston, TX. August 21 -22, 2017.
- 154) Institute for Diabetes, Obesity and Metabolism, University of Pennsylvania, “Development, endocrine functions, and metabolism of marrow adipose tissue.” Philadelphia, PA. November 14, 2017.
- 155) CORS symposium: Bone marrow fat and its importance for the skeleton. “Development, endocrine functions, and metabolism of marrow adipose tissue.” Gothenberg, Sweden. December 5 – 7, 2017.

156) 102<sup>nd</sup> Annual Meeting of the Endocrine Society. “Bone marrow adipose tissue: regulation, lipid composition, and secretion of adipokines. Chicago IL. March 17-20, 2018.

157) University of Miami, Division of Endocrinology. “Development, endocrine functions, and metabolism of marrow adipose tissue.” Miami, FL. March 22<sup>nd</sup> 2018.

158) Touchstone Diabetes Center, Metabolism Seminar Series. “Development, endocrine functions, and metabolism of marrow adipose tissue.” UT Southwestern, Dallas TX. April 26<sup>th</sup>, 2018

159) Henry Ford Health System, Hypertension and Vascular Research Division. “Development, endocrine functions, and metabolism of marrow adipose tissue.” Detroit MI. June 8<sup>th</sup>, 2018.

160) ATLAS Center for Functional Genomics and Tissue Plasticity, “Development, endocrine functions, and metabolism of marrow adipose tissue.” Faaborg, Denmark. June 18-19, 2018.

161) European Society of Toxicology and Pathology: Adipose Tissue and Central Nervous System in Metabolic and Neurodegenerative Diseases, “Development, endocrine functions, and metabolism of marrow adipose tissue.” Copenhagen, Sept 11-14, 2018

162) Endocrine Grand Rounds, University of Rochester School of Medicine, “How the bone marrow niche is influenced by bariatric surgery and environmental temperature.” Rochester, NY. December 14, 2018

163) Regeneron Pharmaceuticals, Inc., “How bariatric surgery and environmental temperature influence the bone marrow niche.” Tarrytown NY. January 15, 2019

164) Mahidol University, Department of Physiology. “How bariatric surgery and environmental temperature influence the bone marrow niche.” Bangkok, Thailand, March 8, 2019.

165) Johns Hopkins Medical Institutions, Department of Physiology. “How bariatric surgery and environmental temperature influence the bone marrow niche.” Baltimore, MD, March 27<sup>th</sup>, 2019.

**Upcoming talks:**

\*Atlas International Symposium, Danish National Research Foundation. June 30-July 1, 2019

\*University of Minnesota Department of Integrative Biology and Physiology. Dec 5, 2019

\*University of Guelph, Spring 2020.

**PUBLICATIONS (138 PubMed publications; h-index 65; total citations > 23,500; Google Scholar)**

**Orcid.org/0000-0001-6907-7960**

**Original Research Manuscripts**

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61. Ge, C., W.P. Cawthorn, Y. Li, G. Zhao, J. Westendorf, **O.A. MacDougald**, and R.T. Franceschi. Reciprocal control of osteogenic and adipogenic lineages by ERK/MAP kinase signaling and transcription factor phosphorylation. Presented at Advances in Mineral Metabolism. Snowmass, CO. April 9-13, 2012.
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68. Doucette, C.L., E.L. Scheller, **O.A. MacDougald**, M.C. Horowitz and C.J. Rosen. Differential effects of calorie restriction on the skeleton implicate marrow adipose tissue as an independent adipose tissue depot. Presented at the Annual Meeting of the American Society for the Advancement of Bone and Mineral Research. Baltimore, MD. Oct 4-7, 2013.
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70. Parlee, S.D., B.R. Simon, X.Ning, C. Weisheit, and **O.A. MacDougald**. Quinine induces C/EBP $\beta$ , C/EBP $\alpha$ , PPAR $\gamma$ , and adipogenesis in 3T3-L1 preadipocytes. Presented at the Annual Meeting of the Endocrine Society, San Diego, CA. March 5-8, 2015.
71. Alejandro, E.U., M. Gianchandani, B. Gregg, S.D. Parlee, **O.A. MacDougald** and E. Bernal-Mizrachi. Maternal low-protein diet during the last week of pregnancy alters specific microRNAs contributing to insulin resistance and  $\beta$ -cell dysfunction in offspring. Presented at the Annual Meeting of the Endocrine Society, San Diego, CA. March 5-8, 2015.
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73. **MacDougald, O.A.** Development, endocrine functions, and metabolism of marrow adipose tissues. Presented at Metabolic Signaling and Disease: From Cell to Organism. Cold Spring Harbor, August 11-15, 2015
74. Scheller, E.L., W.P. Cawthorn, B.S. Learman, B. Wu, L. Andersen, H.A. Pham, S. Khandaker, A. Burr, S.D. Parlee, B.R. Simon, H. Mori, A.J. Bree, B. Schell, and **O.A.**

- MacDougald.** Bone marrow adipocytes selectively resist lipolysis in response to fasting and  $\beta$ -adrenergic stimulation. Presented at the ASBMR Annual Meeting, Seattle, WA. October 9-12, 2015.
75. Learman, B.S., T. Walji, S. Khandaker, K. Moller, B. Schell, C.S Craft, **O.A. MacDougald**, and E.L Scheller. Leptin-induced loss of marrow adipose tissue is mediated by sympathetic and sensory neurotransmission. Presented at the ASBMR Annual Meeting. Atlanta, GA. September 16 – 19, 2016.
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77. Corsa, C.A.S., H. Mori, T.M. Barnes, R.A. Koza, and **O.A. MacDougald**. Investigating the role of SFRP5 and Wnt signaling in adipocyte metabolism. Presented at the Cold Spring Harbor Laboratories: Mechanisms of Metabolic Signaling, May 16 – 20, 2017.
78. Li, Z., J. Hardij, B.S. Learman, C.R. Hutch, S.S. Evers, K.-S. Kim, S.M. Choi, C. Griffin, K. Singer, D.A. Sandoval, R.J. Seeley, and **O.A. MacDougald**. Bone mass and marrow adipose loss after vertical sleeve gastrectomy surgery in mice is inversely correlated with splenomegaly Presented at the Cold Spring Harbor Laboratories: Mechanisms of Metabolic Signaling, May 16 – 20, 2017.
79. Bagchi, D.P., H. Mori, and **O.A. MacDougald**. Investigating the role of  $\beta$ -catenin and Wntless in adipocyte development and metabolic function. Presented at the Cold Spring Harbor Laboratories: Mechanisms of Metabolic Signaling, May 16 – 20, 2017.
80. **MacDougald, O.A.** Development, Metabolism and Endocrine Functions of Marrow Adipose Tissue. Presented at the Neurobiology of Obesity Symposium, Aberdeen Scotland, Aug 16-18, 2017.
81. **MacDougald, O.A.** Development, Metabolism and Endocrine Functions of Marrow Adipose Tissue. Presented at the 39<sup>th</sup> Annual Molecular and Cellular Biology Graduate Student Symposium, Baylor College of Medicine, Houston, TX August 21 -22, 2017.
82. Li, Z., J. Hardij, B.S. Learman, C.R. Hutch, S.S. Evers, K.-S. Kim, S.M. Choi, C. Griffin, K. Singer, D.A. Sandoval, R.J. Seeley, and **O.A. MacDougald**. Bone mass and marrow adipose loss after vertical sleeve gastrectomy surgery in mice. Presented at the Keystone Symposia on Molecular and Cellular Biology: Organ Crosstalk in Obesity and NAFLD. January 21 – 25, 2018. Keystone CO.
83. Bagchi, D.P., H. Mori, and **O.A. MacDougald**. Investigating the role of  $\beta$ -catenin and Wntless in adipocyte development and metabolic function. Presented at the Keystone Symposia on Molecular and Cellular Biology: Organ Crosstalk in Obesity and NAFLD. January 21 – 25, 2018. Keystone CO.

84. Li, Z., H. Mori, K.T. Lewis, and **O. A. MacDougald**. Development, regulation, metabolism and function of bone marrow adipose tissues. Presented at the 16<sup>th</sup> European Congress of Toxicologic Pathology. Adipose Tissue and Central Nervous System Toxicity in Metabolic Disease. Copenhagen, Denmark. September 11 – 14, 2018.
85. Suchacki, K., A. Tavares, D. Mattiucci, M. Sinton, C. Alcaide, D. Said, A. Poloni, S. Cinti, G. MacPherson, A. Amin, E. Scheller, **O. A. MacDougald**, R. Stimson, N. Morton, W. Cawthorn. Bone marrow adipose tissue is molecularly and functionally distinct to white and brown adipose tissue. Presented at the 4<sup>th</sup> Annual Meeting on Bone Marrow Adiposity. Lille, France. August 29 – 31, 2018.
86. Suchacki, K., A. Tavares, D. Mattiucci, M. Sinton, C. Alcaide, D. Said, A. Poloni, S. Cinti, G. MacPherson, A. Amin, E. Scheller, **O. A. MacDougald**, R. Stimson, N. Morton, W. Cawthorn. Bone marrow adipose tissue: A functionally distinct adipose depot. Presented at the 44<sup>th</sup> Adipose Tissue Discussion Group, Edinburgh, December 7th, 2018.
87. Pearson, G., C. Corsa, S. Soleimanpour, and **O.A. MacDougald**. Parkin is dispensable in pancreatic beta-cells and adipocytes for metabolic homeostasis. Presented at the 79<sup>th</sup> Annual Meeting of the American Diabetes Association. San Francisco CA June 7-11, 2019.
88. Suchacki, K.J., A.A.S. Tavares, D. Mattiucci, E.L. Scheller, G. Papanastasiou, C. Gray, M.C. Sinton, L.E. Ramage, W.A. McDougald, A. Lovdel, R.J. Sulston, B.J. Thomas, B.M. Nicholson, A.J. Drake, C.J. Alcaide-Corral, D. Said, A. Poloni, S. Cinti, G. MacPherson, A.K. Amin, M.R. Dweck, J.P. Andrews, M.C. Williams, R.J. Wallace, **O.A. MacDougald**, N.M. Morton, R.H. Stimson, and W.P. Cawthorn. Bone marrow adipose tissue is a unique adipose subtype with distinct roles in systemic glucose homeostasis. Presented at the 5<sup>th</sup> International Meeting on Bone Marrow Adiposity, Odense, Denmark, August 21-23, 2019.