

# CURRICULUM VITAE

## WEIQIN CHEN, Ph.D.

Associate Professor  
Department of Physiology  
Medical College of Georgia at Augusta University

### OFFICE ADDRESS

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622 Rhodes Hill CT  
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### EDUCATION

07/1995	B.S in Microbiology, Nanjing Agricultural University, Nanjing China
07/1999	M.S in Microbiology, China Agricultural University, Beijing China
05/2005	Ph. D in Molecular Genetics, Michigan State University, East Lansing, MI USA

### PROFESSIONAL EXPERIENCES

#### Academic Appointments

2005-2010	Postdoctoral Associate, Endocrinology and Metabolism with Dr. Lawrence Chan, Department of Medicine, Baylor College of Medicine, Houston TX
2010-2012	Instructor, Endocrinology and Metabolism, Diabetes and Endocrinology Research Center (DERC), Baylor College of Medicine, Houston TX
2012-2018	Assistant Professor, Department of Physiology, Medical College of Georgia at Augusta University, Augusta GA
2018-present	Associate Professor, Department of Physiology, Medical College of Georgia at Augusta University, Augusta GA

#### Administrative Responsibilities/appointments

2012-present	Editorial Board, Journal of Metabolic Syndrome
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2017-present Editorial Board, International Journal of Obesity

### **Major Institutional Committees**

2016- IACUC committee member at Augusta University

2016- Hamilton Award Committee, Department of Physiology

2017 Organizer for Symposium titled "Metabolism and Cardiovascular Diseases"  
Department of Physiology

2017-2018 Co-Director of Seminar Program for Department of Physiology

2018, 2020 Faculty Search Committee member, Department of Physiology

2018 Physiology Chair Search Committee member, Medical College of Georgia

2018- Graduate Research Day Postdoctoral presentation judging committee

### Participation in Thesis Committee of

2013-2014 Zhi Qu, graduate student, PI/Mentor: Dr. Adviy Ergul, Department of Physiology

2014 Yingying Cai, graduate student, PI/Mentor: Dr. Wendy Bollag, Department of Physiology (Reader for Thesis Defense)

2016- Rebekah Tritz, graduate student, PI/Mentor: Dr. Brian Stansfield, Vascular Biology Center

2017 Hui-Yiew Kan, graduate student, PI/Mentor: Dr. Neal L. Weintraub, Vascular Biology Center (Reader for Thesis Defense)

2017-2019 Marissa Seamon, graduate student, PI/Mentor: Dr. Ruth Harris, Department of Physiology

2018- Tyler Benson, graduate student, PI/Mentor: Dr. Neal Weintraub, Vascular Biology Center

2018 Lia Taylor, graduate student, PI/Mentor: Dr. Jennifer Sullivan, Department of Physiology (Reader for Thesis Defense)

2019- Yanan Yang, graduate student, PI/Mentor: Dr. Bagi Zsolt, Department of Physiology

### **Major National committees**

#### Scientific review committees

2015-2017 Grant review for American Heart Association SURF2 study section

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- 05/2018 Grant review for the United Kingdom NC3Rs – National Centre for the Replacement, Refinement and Reduction of Animals in Research
- 11/2018 Grant review for the United Kingdom MRC – National Medical Research Council
- 2018- Grant review for Intramural Grants Program at Augusta University
- 04/2019 Grant review for the French National Research Agency (ANR) C14 Panel
- 10/2019 Grant review for Investigator Award in Science, Wellcome Trust UK

Organizer and session chair

- 2013 Organizer for World Congress on Endocrinology, Omics Group Conferences, Raleigh, North Carolina
- 2016 Organizer and session moderator for Diabetes and Endocrinology Conference, Omics Group Conferences, Dallas, Texas
- 2016 Session Co-chair of 2016 Southeastern Regional Lipid Conference (SERLC), Cashier, North Carolina

Abstract review committees and others

- 2014 Poster Judge for Southern Translational Education and Research Conference 2014
- 2015- Abstract review for Endocrine Society Annual Conference
- 2016- Abstract review for American Heart Association Scientific Session
- 2016 Abstract review for Southeastern Regional Lipid Conference (SERLC)
- 2016-2018 Abstract review for Obesity Society

Journals reviewed

Hepatology  
 Diabetes  
 Human Molecular Genetics  
 International Journal of Obesity  
 American Journal of Physiology Endocrinology and Metabolism  
 Metabolism, Clinical and Experimental  
 Diseases Models and Mechanisms  
 Plos One  
 Journal of Investigative Dermatology  
 Cellular Physiology and Biochemistry  
 Journal of Cellular Physiology  
 BMC Genomics  
 Journal of Molecular Endocrinology  
 Nutrients  
 International Journal of Molecular Sciences

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Journal of Clinical Medicine  
Mutation research-Reviews  
Method X  
Journal of Endocrinology  
Biomolecules  
Molecular and Cellular Probes

## Research and Training Grants Awarded (Past Five Years)

### ACTIVE:

04/01/2016-03/31/2021	<b>Chen, Weiqin</b> (PI)	\$380,000/year
1R01HL132182-01	National Heart, Lung and Blood Institute	
	"Novel Role of Bsc12 in Cardiac Substrate Metabolism and Function"	
05/01/2017-04/30/2021	Harris, Ruth (PI)	\$441,765/year
	<b>Chen, Weiqin</b> (Co-Investigator)	
1R01DK109997-01A1	National Institute of Diabetes and Digestive and Kidney Diseases	
	"Hexosamine Biosynthetic Pathway Activation And Leptin Resistance"	
07/01/2018-06/30/2021	Zhou, Hongyi (PI)	\$77,000/year
	<b>Chen, Weiqin</b> (Mentor)	
18CDA34080244	American Heart Association Career Development Award	
	"Neddylation in adipose tissue development and obesity"	
12/01/2019-11/30/2024	Su, Huabo (PI)	\$448,473/year
	<b>Chen, Weiqin</b> (Co-Investigator)	
2R01HL124248-06A1	National Heart, Lung and Blood Institute	
	"Neddylation and cardiac protein quality control"	

### COMPLETED:

07/01/2016-06/30/2018	<b>Chen, Weiqin</b> (PI)	\$77,000/year
16GRNT30680004	American Heart Association, Greater Southeast Affiliate Grant-in-Aid	
	"Novel role of BSCL2 in brown adipose tissue development and function"	
01/01/2012-12/31/2015	<b>Chen, Weiqin</b> (PI)	\$77,000/year
12SDG9080000	American Heart Association National Scientist Development Grant	
	"Bsc12, a unique player in lipolysis, white adipose differentiation and metabolic disorders"	

## HONORS AND AWARDS

1992-1995	First Prize Undergraduate Scholarship, Nanjing Agricultural University
1997	University Outstanding Graduate Student, China Agricultural University

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2004	Duvall Award, Michigan State University
2006	American Diabetes Association Mentor Based Postdoctoral Fellowship, No. 7-06-MN-10
2013	Cancer Center RNA-Seq Grant, Augusta University
2013	Medical Scholar Sponsor Award, Augusta University
2013	Eugenia Rosenberg Travel Award for 95th Annual Conference of Endocrine Society
2017	Outstanding Young Basic Science Faculty Award, Medical College of Georgia

## PROFESSIONAL SOCIETIES

2008-	American Heart Association
2010-	American Diabetes Association
2010-2015	Endocrine Society
2015	American Society for Biochemistry and Molecular Biology
2016	Obesity Society
2018-	American Physiological Society

## TEACHING EXPERIENCES

1998-1999	“Experimental Practices of Microbial Genetics” for graduate students, College of Life Science, China Agricultural University, Beijing, China Role: Teaching Assistant. 12 hours
2002-2003	“Biology 101” for undergraduate students, Department of Microbiology and Molecular Genetics, Michigan State University, East Lansing, MI Role: Teaching Assistant. 20 hours
2013-2015 Spring	“COGS 8033, Integrated Systems Biology” for graduate students, Department of Physiology, Georgia Regents University, Augusta, GA Role: Lecturer. 2 hours
2014-2017 Spring	“VBIO 8020 Frontiers in Vascular Biology” for graduate students, Vascular Biology Center, Georgia Regents University, Augusta, GA Role: Lecturer. 2 hours
2013-present Summer	“Prematriculation program in physiology” for medical students, Medical School of Georgia, Augusta, GA Role: Co-director and Lecturer. 2 hours
2016-present Spring	“COGS 8033, Integrated Systems Biology” for graduate students, Department of Physiology, Augusta University, Augusta, GA

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Role: Lecturer. 8 hours

2016-present  
Fall “COGS 8012, Scientific Communications” for graduate students, Department of Physiology, Augusta University, Augusta, GA  
Role: Lecturer. 2 hours

2018-present  
Fall “BIOM 8012, Scientific Communications” for graduate students, Department of Physiology, Augusta University, Augusta, GA  
Role: Course Director and Lecturer. 4 hours

## STUDENTS AND POSTDOCTORALS SUPERVISION/MENTORING

05-08/2010 Xinyu Wu, Medical Student, Baylor College of Medicine  
07-12/2012 Ding Xie, Ph.D, MD, Postdoctoral Fellow  
05-07/2013 Mayson Callaway, Medical Student, Medical Scholar Program, Dean’s Medical Scholarship winner and published a paper as a co-author  
05-07/2013 Selina Beasley, Rotation Graduate Student, Biomedical Program  
03/2014-09/2015 Xinnuo Lei, Exchange Graduate Student, Hunan Agricultural University, Hunan China, published one paper as first-author and one paper as co-author  
07-2014 Na Chen, Volunteer, high school student  
05/2016-05/2017 Jiazhen Tang, Visiting Scholar, Jiangxi Nanchang Hospital, Jiangxi China  
07/2016-07/2017 Wenqiong Xu, Visiting Scholar, Jiangxi Nanchang Hospital, Jiangxi China  
05/2017-07/2018 Khushboo Sahay, Master Student, Biomedical Program  
01/2018-01/2019 Hongzhuan Xuan, Visiting Scholar  
06/2018-07/2018 Serena Xu, Volunteer, high school student  
06/2018- Cheng Xu, Postdoctoral Fellow  
01/2019-10/2019 Xueping Wan, Postdoctoral Fellow

## INVITED PRESENTATIONS AT NATIONAL, REGIONAL AND STATE MEETINGS (Last Five Years)

08/28/2013 “Bsc12 mediated lipolysis, a rheostat essential for adipose tissue development and metabolic diseases”. World Congress on Endocrinology, Omics Group Conferences, Raleigh NC  
10/04/2013 “Seipin/Bsc12: a Novel Player in Lipolysis and Adipose Tissue Development”. Department of Biology, Georgia State University, Atlanta GA  
11/06/2014 “Bsc12: a Novel Player in Adipose Tissue Development and Energy Balance”. Department of Cellular Biology and Anatomy, Augusta University, Augusta GA  
11/19/2015 “Unraveling the Function of BSCL2 in Adipose Tissue Development and Metabolic Diseases”. Department of Physiology, Augusta University, Augusta GA  
06/15/2016 “Unraveling the Function of BSCL2/Seipin in Adipose Tissue Development and Metabolic Diseases”. Soochow University, Suzhou, Jiangsu China

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- 12/05/2016 "Metabolic Complications in an Animal Model of Congenital Generalized Lipodystrophy Type 2". 6th International Conference on Diabetes and Endocrinology, Dallas TX
- 05/25/2017 Cardiomyopathy in lipodystrophy: role of BSCL2 in regulating cardiac substrate metabolism and function. Department of Physiology, mini-symposium: Metabolism and Cardiovascular Diseases. Augusta University, Augusta GA.
- 10/11/2017 "BSCL2-Regulated Fat Burning-Friend or Foe". Department of Molecular and Cellular Physiology, Albany Medical School, Albany, New York.
- 11/23/2017 "BSCL2 regulates Mature Brown Adipose Tissue Mass and Activity". 2017 Annual Conference for Chinese Diabetes Society, Chongqin, China.
- 11/26/2017 "BSCL2-Regulated Fat Burning-Friend or Foe". Xiangya Second Hospital Symposium for Metabolism, Changsha, Hunan, China.
- 01/10/2018 "BSCL2-Regulated Fat Burning-Friend or Foe". Vascular Biology Center, Medical College of Georgia, Augusta University, Augusta GA.
- 06/07/2019 "Metabolism, Obesity and Diseases: From Fat to Liver". Liaocheng University, Shandong Province, China.
- 01/31/2020 "BSCL2/Seipin in Lipid Catabolism and Lipodystrophy". Department of Biochemistry and Molecular Biology, Augusta University, Augusta GA.
- 04/2020 "BSCL2/Seipin in Lipid Mobilization and lipodystrophy". Lipid in Health and Diseases symposium, Annual ASBMB conference, moved to next year due to COVID-19 pandemic.

## SCIENTIFIC PUBLICATIONS (\*: Corresponding author)

### *Peer-reviewed journal articles:*

1. **Chen W**, Zhang H & Li JL. Isolation of moniliformin-degrading bacterium *Ochrobactrum* sp. and analysis of its functional properties. *Acta Microbiologica Sinica* (in Chinese), 2000, Oct;40 (5): 513-7.
  2. **Chen W**, Jump DB, Grant MB, Esselman WJ, Busik JV. Dyslipidemia, but not hyperglycemia, induces inflammatory adhesion molecules in human retina vascular endothelial cells. *Investigative Ophthalmology & Visual Science*, November 2003, 44(11), 5016-5022.
  3. Koslowsky DJ, Reifur L, Yu L and **Chen W**. Evidence for U-tail Stabilization of gRNA/mRNA Interactions in Z Kinetoplastid RNA Editing. *RNA Biology*, 2004 1:1, e25-e31.
  4. **Chen W**, Esselman WJ, Jump DB and Busik JV. Anti-Inflammatory Effect of Docosahexaenoic Acid on Cytokine Induced Adhesion Molecules Expression in Human Retinal Vascular Endothelial Cells. *Investigative Ophthalmology & Visual Science* 2005 Nov; 46 (11): 4342-7.
  5. **Chen W**, Jump DB, Esselman WJ and Busik JV. Inhibition of Cytokine Signaling in Human Retinal Endothelial Cells through Modification of Caveolae/Lipid Rafts by Docosahexaenoic Acid.
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Investigative Ophthalmology & Visual Science 2007 Jan; 48: 18-26.

6. Matsumura K, Chang BH, Fujimya M, **Chen W**, Kulkarni RN, Eguchi Y, Kimura H, Kojima H, Chan L. Aquaporin 7 is a {beta} Cell Protein and Regulator of Intra-islet Glycerol Content and Glycerol Kinase Activity, {beta} Cell Mass, and Insulin Production and Secretion. Mol Cell Biol. 2007 Sep; 27(17): 6026-37.
  7. Li MV, **Chen W**, Pongvarin N, Imamura M, Chan L. Glucose-mediated transactivation of ChREBP requires cooperative actions from Mondo Conserved Regions and essential trans-acting factor 14-3-3. Mol Endocrinol. 2008 Jul; 22 (7):1658-72.
  8. **Chen W**, Yechoor VK, Chang BH, Li MV, March KL, Chan L. The Human Lipodystrophy Gene Product BSCL2/Seipin Plays a Key Role in Adipocyte Differentiation. Endocrinology 2009 Oct; 150(10): 4552-61.
  9. Tikhonenk M, Lydic TA, Wang Y, **Chen W**, Opreanu M, Sochacki A, McSorley KM, Renis RL, Kern T, Jump D, Reid GE and Busik JV. Remodeling of Retinal Fatty Acids in an Animal Model of Diabetes: a Decrease in Long Chain Polyunsaturated Fatty Acids is Associated with a Decrease in Fatty Acid Elongases Elovl2 and Elovl4. Diabetes 2010 Jan; 59 (1):219-27.
  10. Liou G-Y, Zhang H, Miller EM, Seibold SA, **Chen W** and Gallo KA. Induced, selective proteolysis of MLK3 negatively regulates MLK3-JNK signaling. Biochemical J 2010 14; 427 (3):435-43.
  11. Li MV, **Chen W**, Harmancey RN, Nuotio-Antar AM, Imamura M, Saha P, Taegtmeyer H, Chan L. Glucose-6-phosphate mediates activation of the carbohydrate responsive binding protein (ChREBP). Biochem Biophys Res Commun. 2010 May 7; 395 (3):395-400.
  12. **Chen W**, Chang B, Li L and Chan L. Pnpla3/adiponutrin deficiency in mice is not associated with fatty liver disease. Hepatology 2010 Sep; 52(3): 1134-42.
    - **Comment by Farrell GC, Hepatology. 2010 Sep;52(3):818-21**
  13. Cheng N-H, Zhang W, **Chen W**, Jin J, Cui X, Butte N, Chan L, Kendal H. A mammalian monothiol glutaredoxin, Grx3, is critical for cell cycle progression during embryogenesis. FEBS journal 2011 Jul;278(14):2525-39.
  14. Yang Y, Chang BH, Yechoor V, **Chen W**, Li L, Tsai MJ, Chan L. The Krüppel-like zinc finger protein GLIS3 transactivates neurogenin 3 for proper fetal pancreatic islet differentiation in mice. Diabetologia. 2011 Oct;54(10):2595-605.
  15. **Chen W**, Chang B, Saha P, Hartig SM, Li L, Reddy VT, Yang Y, Yechoor V Mancini M, Chan L. Berardinelli-Seip Congenital Lipodystrophy-2 (BSCL2)/Seipin is a Cell Autonomous Regulator of Lipolysis Essential for Adipocyte Differentiation. Mol Cell Biol. 2012 Mar;32(6):1099-111.
  16. **Chen W**, Chang B, Wu X, Li L, Sleeman M and Chan L. Inactivation of Plin4 downregulates Plin5 and reduces cardiac lipid accumulation in mice. Am. J. Physiol. Endocrinol. Metab. 2013 Apr;304(7):E770-9.
  17. **Chen W\***, Zhou H, Liu S, Fhaner CJ, Gross BC, et al. Altered Lipid Metabolism in Residual White Adipose Tissues of Bsc12 Deficient Mice. PLoS ONE 2013 8(12): e82526. doi:10.1371/journal.pone.0082526. PMID: 24358199.
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18. **Chen W\***, Zhou H, Saha, P, Li L and Chan L. Molecular mechanisms underlying fasting modulated liver insulin sensitivity and metabolism in male lipodystrophic Bslc2/Seipin-deficient mice. Endocrinology. 2014 Nov;155(11):4215-25. PMID: 25093462.
  19. Li R, Zowalaty AE, **Chen W**, and Ye X. Segregated responses of mammary gland development and vaginal opening to prepubertal genistein exposure in Bslc2-/- female mice with lipodystrophy. REPROD TOXICOL 2014 Nov 5. pii: S0890-6238(14)00287-1. PMID: 25462787.
  20. Xu X, Su S, Wang X, Barnes V, Carmen M, Ownby D, Pollock J, Snieder H, **Chen W**, and Wang X. Obesity is associated with more activated neutrophils in African American male youth. Int J Obes (Lond) 2014 Nov 12. doi: 10.1038/ijo.2014.194. PMID: 25388404.
  21. El Zowalaty AE, Baumann C, Li R, **Chen W**, De La Fuente R, Ye X. Seipin deficiency increases chromocenter fragmentation and disrupts acrosome formation leading to male infertility. Cell death & diseases. 2015; 6:e1817. PMID: 26181198.
  22. Lei X, Callaway M, Zhou H and **Chen W\***. Obesity associated Lyplal1 gene is regulated in diet induced obesity but not required for adipocyte differentiation. Mol. Cell. End. 2015; Aug 15. 411:207-13. PMID: 25958046.
  23. Zhou H, Lei X, Benson T, Mintz J, Xu X, Harris RB, Weintraub NL, Wang X, **Chen W\***. Berardinelli-Seip congenital lipodystrophy 2 regulates adipocyte lipolysis, browning, and energy balance in adult animals. J Lipid Res. 2015 Oct;56(10):1912-25. PMID: 26269358.
    - **Highlighted in ASBMB Today, 2015; 14(10):11.**
  24. Zhou H, Black SM, Benson TW, Weintraub NL, **Chen W\***. Berardinelli-Seip Congenital Lipodystrophy 2 (BSCL2)/SEIPIN is not required for Brown Adipogenesis but Regulates Brown Adipose Tissue Activation, Development and Function. Mol Cell Biol. 2016 Jul 14;36(15):2027-38. PMID: 27185876.
    - **Spotlight article selected by the editor**
  25. Pagac M, Cooper DE, Qi Y, Lukmantara IE, Mak HY, Wu Z, Tian Y, Liu Z, Lei M, Du X, Ferguson C, Kotevski D, Sadowski P, **Chen W**, Boroda S, Harris TE, Liu G, Parton RG, Huang X, Coleman RA and Yang H. SEIPIN regulates lipid droplet expansion and adipocyte development through modulating the activity of glycerol-3-phosphate acyltransferase. Cell Rep. 2016 Nov 1;17(6):1546-1559. doi: 10.1016/j.celrep.2016.10.037.
  26. Yiew K-H, Chatterjee TK, Tang Y, Pellenberg R, Stansfield B, Bagi Z, Fulton DJ, Stepp DW, **Chen W**, Patel V, Kamath VM, Litwin SE, Hui D-Y, Rudich SR, Kim H-W, Weintraub NL. Novel role for APCDD1 in adipocyte differentiation with epigenetic linkage to miR-130: implications for diet-induced obesity. J Biol Chem. 2017 Apr 14;292(15):6312-6.
  27. El Zowalaty AE, Li R, **Chen W** and Ye X. Seipin deficiency leads to increased ER stress and apoptosis in mammary gland alveolar epithelial cells during lactation. Biol Reprod. 2018 Apr 1;98(4):570-578.
  28. Benson TW, Weintraub DS, Crowe M, Yiew NKH, Popoola O, Pillai A, Joseph J, Archer K, Greenway C, Chatterjee TK, Mintz J, Stepp DW, Stansfield BK, **Chen W**, Brittain J, Bogdanov VY, Gao Y, Wilson JG, Tang Y, Kim HW, Weintraub NL. Deletion of the Duffy antigen receptor
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for chemokines (DARC) promotes insulin resistance and adipose tissue inflammation during high fat feeding. Mol Cell Endocrinol. 2018 Sep 15;473:79-88.

29. Zou J, Ma W, Li J, Littlejohn R, Zhou H, Kim I, Fulton D, **Chen W**, Weintraub NL, Zhou J, Su H. Neddylation mediates ventricular chamber maturation through repression of Hippo signaling. Proc Natl Acad Sci U S A. 2018 Apr 24;115(17):E4101-E4110.
30. Xu W, Zhou H, Xuan H, Wang G\*, **Chen W\***. Novel metabolic disorders in skeletal muscle of Lipodystrophic Bsc2/Seipin deficient mice. Mol Cell Endocrinol. 2019 Feb 15;482:1-10. PMID: 25958046.
31. Yiew N, Greenway C, Zarzour A, Goo B, Kim D, Benson T, Ogbi M, Tang Y, **Chen W**, Stepp D, Patel V, Hilton R, Lu X-Y, Hui D, Kim H and Weintraub NL. Enhancer of Zeste Homolog 2 (EZH2) regulates adipocyte lipid metabolism independent of adipogenic differentiation: role of apolipoprotein E. J Biol Chem. 2019 May 24;294(21):8577-8591.
32. Tang J, Zhou H, Sahay K, Xu W, Yang J, Zhang W\*, **Chen W\***. Obesity-associated Family with Sequence Similarity 13, Member A (FAM13A) is dispensable for adipose development and insulin sensitivity. Int J Obes (Lond). 2019 Jun;43(6):1269-1280.
33. Zhou H, Lei X, Li J, Yun Y, Weintraub NL, Su H and **Chen W\***. Targeting ATGL to Rescue BSCL2 lipodystrophy and its Associated Cardiomyopathy. JCI Insight. 2019 Jul 25; 4(14): e129781.
34. Ren YA, Monkkonen T, Lewis MT, Bernard DJ, Christian HC, Jorgez CJ, Moore JA, Landua JD, Chin HM, **Chen W**, Singh S, Kim IS, Zhang X, Xia Y, Philips K, MacKay H, Waterland RA, Ljungberg MC, Pradip S, Hartig JM, Fiordelisio Coll T, and Richards JS. S100a4-Cre-mediated deletion of Patched1 causes hypogonadism and unveils a role for pituitary immune cells in endocrine regulation. JCI Insight. 2019 Jul 25; 4(14): e126325.
35. Bruder-Nascimento TB, Antonova, G, Kennard S, Vijay P, **Chen W**, Belin de Chantemele E. Leptin restores endothelial function via endothelial PPAR $\gamma$ - Nox1 mediated mechanisms in a mouse model of congenital generalized lipodystrophy. Hypertension. 2019 Dec: 74(6): 1399-1408.
36. Zhou H, Xu C, Lee H, Yoon Y, **Chen W\***. Berardinelli-Seip Congenital Lipodystrophy 2/Seipin Determines Brown Adipose Tissue Maintenance and Thermogenic Programming. Mol Metab, 2020 Mar 4;36:100971.

#### ***In revision/Submitted/in preparation***

37. Tritz R, Benson T, Harris V, Hudson FZ, Mintz J, Zhang H, Kennard S, **Chen W**, Stepp DW, Csanyi G, Belin de Chantemèle E, Weintraub N, Stansfield BK. Nf1 Heterozygous Mice Recapitulate the Anthropometric and Metabolic Features of Human Neurofibromatosis Type 1. Submitted.
38. Liu J\*, Wen T\*, Dong K, Zhou H, Fu Z, Shen J, Hu G, Ma W, Li J, He X, Wang L, Osman I, Zheng Z, Wang W, Du Q, Pu WT, Xiang M, **Chen W**, Su H, Zhang W, Zhou J. TEAD1 suppresses necroptosis in postmitotic cardiomyocyte through regulating nuclear DNA-encoded mitochondrial genes. Submitted.

#### **ABSTRACTS PRESENTED AT NATIONAL/REGIONAL AND STATE MEETINGS**

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## 2003

- **Chen W**, Busik JV, Jump DB, Grant MB and Esselman WJ. Effect of Dyslipidemia on Pro-inflammatory Adhesion Molecule Expression in Human Retinal Vascular Endothelial Cells. Selected for **Oral Presentation** at ARVO Meeting, May 4-8, 2003, Fort Lauderdale, FL

## 2004

- Busik JV, **Chen W**, Jump DB, Grant MB and Esselman WJ. Anti-inflammatory effect of Docosahexaenoic Acid (DHA, 22:6,n3), on VEGF, TNF{alpha} and IL-1{beta}-Induced Adhesion Molecule Expression in Human Retinal Vascular Endothelial Cells. Selected for **Oral Presentation** at ARVO Meeting, May 4-8, 2004, Fort Lauderdale, FL.
- Chen W, Busik JV, Jump DB, Grant MB and Esselman WJ. Inhibition of Cytokine Signaling in Human Retinal Endothelial Cells through Modification of Caveolae/Lipid Rafts by Docosahexaenoic Acid. Annual Conference of American Diabetes Association (ADA); June 4-8, 2004, Orlando, FL. Abstract No: 881-P.

## 2005

- Busik JV, Chen W, Jump DB, Grant MB and Esselman WJ. Anti-Inflammatory Effect of PPAR{alpha} in Human Retinal Vascular Endothelial Cells. ARVO Meeting, May 1-5, 2005, Fort Lauderdale, FL. Abstract No: 4708.
- Esselman WJ, **Chen W**, Kern TS, Jump DB and Busik JV. Pro-inflammatory Changes in Blood Plasma and Retinal Fatty Acid Profiles in Streptozotocin (STZ) Diabetic Rats. ARVO Meeting, May 1-5 2005, Fort Lauderdale, FL. Abstract No: 398.

## 2006

- Busik JV, **Chen W**, Jump DB, Esselman WJ. Modification of Caveolae/Lipid Rafts by Docosahexaenoic Acid Inhibits Inflammatory Signaling in Human Retinal Endothelial Cells. ARVO Meeting, April 30 - May 4 2006, Fort Lauderdale, FL. Abstract No: 1720.

## 2010

- **Chen W**, Chang B, Li L and Chan L. Pnpla3[/*italic*]/Adiponutrin-Deficient Mice Maintain Normal Adipose Development and Liver Lipid Homeostasis. 92 Annual Conference of Endocrine Society, June 19-22, 2010. San Diego, California. Abstract No: P1-422.
- **Chen W**, Chang B, Li L, Yang Y, Sleeman M and Chan L. Inactivation of Perilipin 4 (S3-12) Downregulates Perilipin 5 (OX-PAT) and Reduces Cardiac Lipid Accumulation in Mice. Poster presentation in FASEB Summer Research Conferences, Lipid droplets: Metabolic Consequences of the Storage of Neutral Lipids. July 25-30, 2010. Steamboat, Colorado.

## 2011

- Wu X, **Chen W** and Chan L. Inactivation of Perilipin 4 (S3-12) Downregulates Perilipin 5 (OX-PAT) and Reduces Cardiac Lipid Accumulation in Mice. NIDDK Medical Student Research Symposium, Augusta 2-4, 2011, Nashville, TN.

## 2012

- **Chen W**, Chang B, Saha P, Hartig SM, Li L, Reddy VT, Yang Y, Yechoor V Mancini M, Chan L. Berardinelli-Seip Congenital Lipodystrophy-2 (BSCL2)/Seipin is a Cell Autonomous Regulator of Lipolysis Essential for Adipocyte Differentiation. Selected for **Oral Presentation** at 94 Annual Conference of Endocrine Society, June 23-June 26, 2012. Houston, TX.
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## 2013

- **Chen W\***, Cassie J Fahner, Gavin E Reid. Altered Lipid Metabolism in White Adipose Tissue of Bslc2 deficient Mice. 95th Annual Conference of Endocrine Society, June 15-18, 2013. San Francisco, CA. **Eugenia Rosemberg Travel Award**.

## 2014

- **Chen W\***, Zhou H, Saha, P, Li L and Chan L. Novel Metabolic Disorders and Fasting Modulated Liver Insulin Sensitivity and Metabolism in Lipodystrophic Bslc2/Seipin-deficient Mice. 96th Annual Conference of Endocrine Society held on June 15-18, 2014. Chicago, IL.
- Zhou H, Black S, **Chen W\***. Bernerdinali Seip Congenital Lipodystrophy (BSCL) Type 2 (Bslc2/Seipin) Is a Key Player in Brown Adipose Tissue Development and Function. 5th StAR conference, September 25-26, 2014, Augusta, GA.
- Lei X, Callaway M, Zhou H, **Chen W\***. Function of an Obesity Associated Gene (Lyplal1) in Diet Induced Obesity and Adipose Tissue Development. Selected for **Oral Presentation** at 5th StAR conference, September 25-26, 2014, Augusta, GA.
- **Chen W\***, Zhou H, Saha, P, Li L and Chan L. Molecular Mechanisms Underlying Fasting Modulated Liver Insulin Sensitivity and Metabolism in Male Lipodystrophic Bslc2/Seipin-Deficient Mice. Annual Conference of American Heart Association held on November 15-19, 2014, Chicago, IL. Circulation. 2014: 130 (Suppl\_2): A12189.

## 2015

- Zhou H, Lei X, Benson T, Xu X, Wang X, Weintraub N, **Chen W\***. Bslc2/Seipin is essential for mature adipocyte energy metabolism and maintenance. Keystone Symposium Beige and Brown Fat: Basic Biology and Novel Therapeutics (D5), April 17-21, 2015 Snowbird, Utah USA
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