

# **Brant R. Burkhardt, Ph. D.**

**Assistant Professor**

**Department of Cell Biology, Microbiology, and Molecular Biology**

**University of South Florida**

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## **EDUCATION**

University of Florida	<b>Ph.D.</b>	Microbiology/Immunology	1996-2001
Clemson University	<b>M.Sc.</b>	Microbiology	1994-1996
College of New Jersey	<b>B. Sc.</b>	Biology	1989-1993

## **ACADEMIC APPOINTMENTS**

<b>Postdoctoral Fellow (with Dr. Mark Atkinson)</b> Center for Immunology and Transplantation Department of Pathology, Immunology, and Laboratory Medicine University of Florida	2001-2003
<b>Postdoctoral Fellow (with Dr. Bryan Wolf)</b> Department of Pathology and Laboratory Medicine University of Pennsylvania	2003-2006
<b>Senior Research Associate (with Dr. Bryan Wolf)</b> Department of Pathology and Laboratory Medicine Children's Hospital of Philadelphia Research Institute	2006-2010
<b>Adjunct Professor (Concurrent appointment with above)</b> Department of Science, Math, and Technology Burlington County College	2010-2011
<b>Assistant Professor (Tenure-track)</b> Department of Cell Biology, Microbiology, and Molecular Biology Diabetes Center University of South Florida	2010-Present

## **AWARDS**

- Graduate Teaching Assistantship, Biology Department, Clemson University, (1994-1996)
- National Institutes of Health Predoctoral Research Fellowship in Infectious Diseases (1997-1999) (T32-AI07110)
- Outstanding Paper Presentation in Molecular Biology, Graduate Student Forum, University of Florida (1999)
- Graduate Research Assistantship, University of Florida (1996, 2000-2001)
- Outstanding Paper Presentation in Biological Sciences, Graduate Student Forum, University of Florida (2000)
- National Institutes of Health Postdoctoral Fellowship in Diabetes and Endocrinology (2003-2006) (T32-DK07314-23)
- University of South Florida New Researcher Award (2012)

## **Other Experience and Professional Memberships**

- 2004- Member, American Diabetes Association
- 2010- Editorial Board Member, ISRN Endocrinology
- 2012- Editorial Board Member, BioMed Research International

## **PUBLICATIONS**

1. **Burkhardt, B.R.**, C. Cobberley, D. Kephart, J. Sleasman, and M. M. Goodenow. 1999. Postmortem isolation and analysis of human genomic DNA from HIV-infected tissues: A Molecular Diagnostics Application. *Promega Notes*. 71:16-17.
2. Kouba, A. J., **B. R. Burkhardt**, I. M. Alvarez, M. M. Goodenow, and W. C. Buhi. 2000. Oviductal Plasminogen activator inhibitor-1 (PAI-1): mRNA, protein, and hormonal regulation during the estrous cycle and early pregnancy in the pig. *Mol. Reproduc. Dev.* 56(3): 378-86.
3. Perez, E. E., S. L. Rose, B. Peyser, S. L. Lamers, **B.R. Burkhardt**, B. M. Dunn, A. D. Hutson, J. W. Sleasman, and M. M. Goodenow. 2001. Human immunodeficiency virus type 1 protease genotype predicts immune and viral responses to combination therapy with protease inhibitors (PIs) in PI-naive patients. *J. Infect. Dis.* 184(4): 579-88.
4. Goudy, K., **B. R. Burkhardt**, C. Wasserfall, T. Brusko, S. Song, T. Ellis, T. Flotte, and M. A. Atkinson. 2003. Systemic overexpression of IL-10 induces CD4+CD25+ cell populations in-vivo and ameliorates type 1 diabetes in nonobese diabetic mice in a dose-dependant fashion. *J. Immunol.* 171(5):2270-8.
5. **Burkhardt, B. R.**, S. A. Loiler, M. S. Kilberg, J. M. Crawford, T. R. Flotte, K. Goudy, T. M. Ellis, and M. A. Atkinson. 2003. Glucose-responsive expression of the human insulin promoter in HepG2 human hepatoma cells. *Ann. N.Y. Acad. Sci.* 1005: 237-41.
6. Tang, D., L. Cao, **B. R. Burkhardt**, C. Xia, S. A. Litherland, M. A. Atkinson, and L. Yang. 2004. In-vivo and in-vitro characterization of insulin-producing cells obtained from murine bone marrow. *Diabetes.* 53(7):1721-32.
7. Cao, X., J. Yang, **B. R. Burkhardt**, Z. Gao, R. K. Wong, S. Greene, J. Wu, and B. A. Wolf. 2005. Effects of over-expression of Pancreatic Derived Factor (FAM3B) in isolated mouse islets and insulin-secreting  $\beta$ TC3 cells. *Am J Physiol Endocrinol Metab.* 289(4):E543-50.
8. **Burkhardt, B. R.**, M. C. Yang, C. E. Robert, J. Yang, S. R. Greene, K. K. McFadden, Z. Gao, and B. A. Wolf. 2005. Tissue-Specific and Glucose-Responsive Expression of the Pancreatic Derived factor (PANDER) Promoter. *Biochim Biophys Acta.* 25;1730(3):215-25.
9. Yang, J. Z. Gao, C. E. Robert, **B. R. Burkhardt**, H. Gaweska, A. Wagner, J. Wu, S. R. Greene, R. A. Young, and B. A. Wolf. 2005. Structure-function studies of PANDER, an islet specific cytokine inducing cell death of insulin secreting cells. *Biochemistry.* 30;44(34):11342-52.
10. **Burkhardt, B. R.**, M. J. Parker, Y.C. Zhang, S. Sihong, C. H. Wasserfall, and M. A. Atkinson. 2005. Glucose transporter-2 (GLUT2) promoter mediated transgenic insulin production reduces hyperglycemia in diabetic mice. *FEBS Lett.* 24;579(25):5759-64.
11. Yang, J., C. E. Robert, **B.R. Burkhardt**, R. A. Young, J. Wu, Z. Gao and B. A. Wolf. 2005. Mechanisms of glucose-induced secretion of PANDER in pancreatic beta Cells. *Diabetes.* 54(11):3217-3228.
12. Ghaffari, G., D. L. Tuttle, D. R. Briggs, **B. R. Burkhardt**, D. Bhatt, W. A. Andiman, J. W. Sleasman, and M. M. Goodenow. 2005. Complex determinants in human immunodeficiency virus type 1 envelope gp120 mediate CXCR4-dependent infection of macrophages. *J Virol.* 79(21):13250-61.

13. **Burkhardt, B. R.**, R. Lyle, K. Qian, A. S. Arnold, H. Cheng, M. A. Atkinson, and Y. C. Zhang. 2006. Efficient delivery of siRNA into cytokine-stimulated insulinoma cells silences Fas expression and inhibits Fas-mediated apoptosis. *FEBS Lett.* 580(2):553-560.
14. **Burkhardt, B. R.**, S. R. Greene, P. White, R. K. Wong, J. E. Brestelli, J. Yang, C. E. Robert, T. Brusko, C. H. Wasserfall, K. H. Kaestner, J. Wu, M. A. Atkinson, and B. A. Wolf. 2006. PANDER-Induced Cell-Death Genetic Networks Reveals Central Role for Caspase-3 and Cyclin-Dependent Kinase Inhibitor 1A in Islet Apoptosis. *Gene.* 369C:134-141.
15. **Burkhardt, B. R.**, M. S. Salemi, R. R. Gray, G. Ghaffari, J. W. Sleasman, and M. M. Goodenow. 2007. Phylodynamics of HIV-1 in Lymphoid and Non-Lymphoid Tissues Reveals a Central Role for the Thymus in Emergence of CXCR4-Using Quasispecies. *PloS One.* 26;2(9):e950. **(Co-Authorship)**
16. **Burkhardt, B. R.**, J. R. Cook, R. A. Young, and B. A. Wolf. 2008. PDX-1 Interaction and Regulation of the Pancreatic Derived Factor (PANDER, FAM3B) Promoter. *Biochim Biophys Acta.* 1779(10):645-51 **(Co-Authorship)**
17. Yang, J. C. Wang, **B. R. Burkhardt**, C. E. Robert-Cooperman, C. Wilson, Z. Gao, and B. A. Wolf. 2009. PANDER binds to the liver cell membrane and inhibits insulin signaling in HepG2 cells. *FEBS Lett.* 583(18):3009-15.
18. Yang, J., J. Li, Y. Chi, **B. R. Burkhardt**, Y. Guan, and B. A. Wolf. 2010. Leucine metabolism in regulation of insulin secretion from pancreatic beta cells. *Nutrition Reviews.* 68(5):270-9.
19. Carnegie, J. R., C. E. Robert-Cooperman, J. Wu, R. A. Young, B. A. Wolf, and **B. R. Burkhardt**. 2010. Characterization of the Expression, Localization, and Secretion, of PANcreatic DERived Factor (PANDER, FAM3B) in Pancreatic Alpha Cells. *Mol. Cell. Endo.* 325(1-2):36-45.
20. Robert-Cooperman, C. E., J. R. Carnegie, C. G. Wilson, J. Yang, J. R. Cook, J. Wu, R. A. Young, B. A. Wolf, and **B. R. Burkhardt**. 2010. Targeted Disruption of PANcreatic-DERived Factor (PANDER, FAM3B) Impairs Pancreatic  $\beta$ -Cell Function. *Diabetes.* 59(9):2209-18.
21. Wilson, C. G., M. Schupp, **B.R. Burkhardt**, J. Wu, and B.A. Wolf. 2010. Liver-Specific Overexpression of Pancreatic-Derived Factor Induces Fasting Hyperglycemia in Mice. *Endocrinology.* 151(11):5174-84.
22. Robert-Cooperman, C. E., C. G. Wilson, and **B. R. Burkhardt**. 2011. PANDER KO mice on high-fat diet are glucose-intolerant yet resistant to fasting hyperglycemia and hyperinsulinemia. *FEBS Lett.* 585(9):1345-9.
23. Wilson, C. G., C. E. Robert-Cooperman, and **B. R. Burkhardt**. 2011. PANcreatic-DERived Factor: Novel Hormone PANDERing To Glucose Regulation. *FEBS Lett.* 585(14):2137-43.
24. Wang, C., **B. R. Burkhardt**, Y. Youfei, and J. Yang. 2012. Implication of pancreatic derived factor (PANDER) in type 2 diabetes: evidence from pancreatic  $\beta$  cells and liver. *Nutrition Rev.* 70(2):100-6.
25. Dong-Qi, T., Q. Wang, **B.R. Burkhardt**, S. A. Litherland, M. A. Atkinson, and L. Yang. 2012. In vitro generation of functional insulin-producing cells from human bone marrow-derived stem cells, but long-term culture running risk of malignant transformation. *Am J Stem Cell.* 1(2):114-127.
26. Vehik, K., S. W. Fiske, C. A. Logan, D. Agardh, C. M. Cilio, W. Hagopian, O. Simell, M. Roivainen, J. She, T. Briesse, S. Oikarinen, H. Hyoty, A. G. Ziegler, M. Rewers, A. Lernmark, B. Akolkar, J. P. Krischer, and **B. R. Burkhardt** and the TEDDY Study Group. 2013. Methods, Quality Control and Specimen Management in an International Multi-Center Investigation of Type 1 Diabetes: TEDDY. *Diabetes Metab Res Rev.* 29(7):557-67.
27. Vehik, K., N. J. Ajami, D. Hadley, J. F. Petrosino, and **B. R. Burkhardt**. 2013. The Changing Epidemiology of Type 1 Diabetes: Recent Developments and Future Frontiers. *Curr Diab Rep.* 13(5):642-50.

28. Hye-Seung, L., **B. R. Burkhardt**, W. McLeod, S. Smith, C. Eberhard, K. Lynch, D. Hadley, M. Rewers, O. Simell, J. She, B. Hagopian, A. Lernmark, B. Akolkar, A. G. Ziegler, J. P. Krischer and the TEDDY Study Group. 2014. Biomarker Discovery Study Design for type 1 diabetes in The Environmental Determinants of Diabetes in the Young (TEDDY) Study. *Diabetes Metab Res Rev.* 30(5):424-34.
29. C. E. Robert-Cooperman, G. C. Dougan, S. L. Moak, M. G. Athanason, M. N. Kuehl, H. Bell-Temin, S. M. Stevens Jr. and **B. R. Burkhardt**. 2014. PANDER Transgenic Mice Display Fasting Hyperglycemia and Hepatic Insulin Resistance. *Journal of Endocrinology.* 220(3):219-31.
30. Moak, S.L., G. C. Dougan, C. B. Marelia, W. A. Danse, A. M. Fernandez, M. N. Kuehl, M. Athanason, and **B. R. Burkhardt**. 2014. Enhanced KO Murine Model on C57BL/6 Background for the Investigation of Pancreatic-Derived Factor. *Dis Model Mech.* 7(11):1307-15.
31. Mo, X. M., C. Yang, X. Wang, **B. R. Burkhardt**; Y. Li, H. Xiao, X. Cao. 2014. FAM3B (PANDER) decreases mice hepatic triglyceride and is associated with decreased DGAT1 expression. *PLoS One.* *Accepted*
32. Kuehl, M. N., H. C. Rodriguez, **B. R. Burkhardt**, and A.C. Alman. 2014. Tumor Necrosis Factor- $\alpha$ , Matrix-metalloproteinases 8 and 9 Levels in the Saliva are Associated with Increased Hemoglobin A1c in Type 1 Diabetes Subjects. *PLoS One. Revisions. (Senior/Corresponding Co-Authorship)*
33. Bell-Temin, H., D. Chaput, C. M. Carlson, M. N. Kuehl, **B. R. Burkhardt**, P. C. Bickford, B. Liu and S. M. Stevens, Jr.. Proteomic Exploration of Classical and Alternative Microglial Activation States Reveals Novel Insights and Biomarkers. *Molecular and Cellular Proteomics. Revisions*
34. Bell-Temin, H., D. Chaput, C. M. Carlson, M. N. Kuehl, **B. R. Burkhardt**, B. Liu, S. M. Stevens Jr., Ph.D. Ethanol Exposure Decreases Inflammatory Microglial Response in a PPAR- $\gamma$  Dependent Manner. *Journal of Neuroinflammation. Revisions.*
35. Danse, W. A., A. C. Chechele, M. G. Athanason, M. N. Kuehl, A. M. Fernandez, C. B. MarElia and **B. R. Burkhardt**. Nutrient and Hormonal Regulation of the PANcreatic-DERived factor (PANDER) promoter. *Molecular and Cellular Endocrinology. Revisions.*

## **BOOK CHAPTERS**

- Kapturczak, M. H., **B. R. Burkhardt**, and M. A. Atkinson. 2005. Gene therapy for prevention and treatment of type I diabetes. *Laboratory Techniques in Biochemistry and Molecular Biology.* Volume 31:125-159.

## **RESEARCH SUPPORT**

### **Current**

- Start-Up Funds Burkhardt (PI) 01/01/11-12/31/16  
 University of South Florida  
 Department of Cell Biology, Microbiology, and Molecular biology  
 Total Cost: \$350,000
- 7-13-CE-02 Alman (PI) 07/01/13-06/30/16  
 American Diabetes Association  
 Epicardial fat and inflammatory mediators in the excess risk of coronary artery calcification among women with type 1 diabetes  
 Role: Co-Investigator  
 Total Cost: \$580,000 (Co-Investigator portion 100K)

## Completed

- DK070744-A1 Burkhardt (PI) 04/01/06-03/31/11  
NIH-NIDDK K01  
Mechanism of PANDER-Induced Apoptosis  
Total Costs: \$669,600
- New Researcher Grant Burkhardt (PI) 06/01/12-05/31/13  
University of South Florida  
Division of Sponsored Research  
Mechanism of Pancreatic-Derived factor (PANDER) induced glyceimic regulation  
Total Cost: 25,000
- Early Career Investigator Award Alman (PI) 09/01/12-08/31/13  
College of Public Health, University of South Florida  
Measurement of inflammation in the saliva as a biomarker for the prediction, progression, and glyceimic control of type 1 diabetes  
Role: Co-Investigator  
Total Cost: 10K (Co-Investigator portion 7K)

## Grants Strongly Scored but Unfunded

- DK09022-A1 Burkhardt (PI)  
NIH-NIDDK R01  
Mechanism of PANDER-induced glyceimic regulation  
Score: 23rd percentile/ Impact/Priority 30  
Result: Unfunded (Payline was 18th percentile for ESI)

## ABSTRACTS (1998-Present)

1. **Burkhardt, B. R.**, Perez, E. E., Mueller, B., Pizzo, P., Sleasman, J. W., and Goodenow, M. M. "Emergence of Genotypic Resistance in HIV-1 Protease in Children with Reduced Virus Burden and Significant Immune Reconstitution in Response to Highly Active Retrovirus Therapy". The 5<sup>th</sup> Conference on Retroviruses and Opportunistic Infections, February 1-5, 1998, Chicago, Ill.
2. Perez, E. E., **Burkhardt, B.**, Mueller, B., Pizzo P., Sleasman, J. W., and Goodenow, M. M. "Genotypic Resistance in HIV-1 Protease Emerges in Infected Pediatric Patients with Reduced Virus Burden and Immune Reconstitution in Response to HAART". Southern Society for Pediatric Research Meeting, February 7-9, 1998, New Orleans, LA.
3. **Burkhardt, B. R.**, Taylor, G. S., Lee, F. E., Nykiel, G., Lamers, S. L., Tuttle, D. L., Sleasman, J. W. and Goodenow, M. M. "Tissue Specific Segregation of HIV-1 in Vertically Infected Patients as Determined by Long Terminal Repeat (LTR) and Envelope (Env) Sequences". Retroviruses, May 25-30, 1999, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.
4. **Burkhardt, B. R.**, Taylor, G. S., Lee, F. E., Nykiel, G., Lamers, S. L., Tuttle, D. L., Sleasman, J. W. and Goodenow, M. M. "Phylogenetic Segregation of HIV-1 among the Lung, Brain, and Blood, of Vertically Infected Patients as Determined by Long Terminal Repeat (LTR) and Envelope (Env) Sequences". Graduate Student Forum, April 2, 1999, University of Florida, Gainesville, FL.
5. **Burkhardt, B. R.**, Oshier, J. T., Taylor, G. S., Lee, F. E., Tuttle, D. L., Sleasman, J. W., and Goodenow, M. M. "Promoter Analysis of HIV-1 Reveals Distinct Functional Differences among Tissue Specific Long Terminal Repeats (LTRs)". Retroviruses, May 25-30, 2000, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.
6. Briggs, D., **Burkhardt, B. R.**, Taylor, G. S., Tuttle, D. L., Goodenow, M. M., and Sleasman, J. W. "Phylogenetic Identification and Functional Characterization of HIV-1 Quasispecies from the Thymus". Retroviruses, May 25-30, 2000, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.

7. **Burkhardt, B. R.**, Oshier, J. T., Taylor, G. S., Lee, F. E., Tuttle, D. L., Sleasman, J. W., and Goodenow, M. M. "Promoter Analysis of HIV-1 Reveals Distinct Functional Differences among Tissue Specific LTRs". Graduate Student Forum, April 14, 2000, University of Florida, Gainesville, FL.
8. Goudy, K., Wasserfall C., **Burkhardt B.**, Brusko, T., Song S., Ellis, T., Flotte, T., and Atkinson, M. "Dose and time dependency of AAV-IL-10 gene therapy disease prevention in NOD mice". American Diabetes Association, 62<sup>nd</sup> Scientific Sessions, June 14-18, 2002, San Francisco, CA.
9. Goudy, K., Wasserfall C., **Burkhardt B.**, Brusko, T., Song S., Ellis, T., Flotte, T., and Atkinson, M.. "Elucidation of time and dose dependencies using AAV-IL-10 gene therapy for the prevention of type 1 diabetes in the NOD mouse". 5<sup>th</sup> Annual American Society of Gene Therapy Meeting, June 5-9, 2002, Boston, MA.
10. **Burkhardt, B. R.**, Ghaffari, G., Oshier, J. T., Sleasman, J. W., and Goodenow, M. M. "Functional Analysis of Tissue Specific LTRs from Primary HIV-1 Display Distinct Promoter Function in Macrophages and PBMC". Retroviruses, May 21-26, 2002, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.
11. Tuttle, D. L., Briggs, D. R., Arnold, J. L., **Burkhardt, B. R.**, Poole, P. P., Jeffers, L. K., Bhatt, D., Sleasman, J. W., and Goodenow, M. M. "HIV-1 Envelope V1 Determinants Are Critical for CXCR4-Mediated Infection of Macrophages". Retroviruses, May 21-26, 2002, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.
12. **Burkhardt, B. R.**, Loiler, S. A., Kilberg M. S., Crawford, J. M., Flotte, T. R., Goudy, K., Ellis, T. M., Atkinson, M. A. "Glucose-Responsive Expression Of The Human Insulin Promoter in HepG2 Human Hepatoma Cells". The 6<sup>th</sup> International Congress of the Immunology of Diabetes Society and American Diabetes Association Research Symposium, October 3-6, 2002, Copper Mountain Resort, Copper Mountain, CO.
13. Goudy, K., Wasserfall C., **Burkhardt B.**, Brusko, T., Song S., Ellis, T., Flotte, T., and Atkinson, M. "Gene Therapy Using AAV-IL-10 Prevents Diabetes in NOD Mice in a Dose and Time Dependent Fashion Through Immunoregulatory Enhancement". The 6<sup>th</sup> International Congress of the Immunology of Diabetes Society and American Diabetes Association Research Symposium, October 3-6, 2002, Copper Mountain Resort, Copper Mountain, CO.
14. **Burkhardt, B. R.**, Zhang, Y. C., Anderson J., Loiler, S. A., Crawford, J. M., Flotte, T. R., Ellis, T. M., and Atkinson, M. A. "Insulin Regulated Transgene Expression via Human Insulin Promoter Driven Recombinant Adeno-Associated Virus". American Diabetes Association, 63<sup>rd</sup> Scientific Session, New Orleans, LA.
15. Tang, D., Cao, L., **Burkhardt, B. R.**, and Atkinson, M. A. "Derivation and Characterization of Functional Insulin-Producing Cells from Human and Mouse Bone-Marrow Derived Stem Cells". American Diabetes Association, 63<sup>rd</sup> Scientific Sessions, New Orleans, LA.
16. **Burkhardt, B. R.**, Zhang, Y. C., Anderson J., Loiler, S. A., Crawford, J. M., Flotte, T. R., Ellis, T. M., and Atkinson, M. A. "Regulated Transgene Expression in both HepG2 Hepatoma Cells and Primary Rat Hepatocytes via Human Insulin Promoter Driven Recombinant Adeno-Associated Virus". 6<sup>th</sup> Annual American Society of Gene Therapy Meeting, June 5-9, 2003, Washington D. C.
17. **Burkhardt, B. R.**, Yang, M. C., Robert, C. E., Gao, Z., and Wolf, B. A. "Identification and Characterization of the Murine PANDER Promoter Reveals Dominant  $\alpha$ -TC3 Specific Expression". American Diabetes Association, 64<sup>th</sup> Scientific Session, June 4-8, 2004, Orlando, FL.
18. Yang, L., Tang, D. **Burkhardt, B.**, Cao, L., Litherland, S., and Atkinson, M. "Derivation of Functional Insulin Producing Cells from Mouse and Bone Marrow-Derived Stem Cells". American Diabetes Association, 65<sup>th</sup> Scientific Session, June 4-8, 2004 Orlando, FL.
19. Zhang, Y. C., **Burkhardt, B. R.**, Atkinson, M., Tang, Y., Qian, K. and Shen, L. " Small Interference RNA Silencing of Fas on Cytokine-Stimulated Pancreatic Islet Cells for Improving Islet Transplantation and Preventing Islet Cell Loss". American Diabetes Association, 65<sup>th</sup> Scientific Session, June 4-8, 2004 Orlando, FL.
20. **Burkhardt, B. R.**, Yang, M. C., Robert, C. E., Gao, Z., and Wolf, B. A. "Islet Cell-Line Specific and Glucose-Responsive Expression of the PANDER Promoter". American Diabetes Association, 65<sup>th</sup> Scientific Session, June 10-14, 2005, San Diego, CA.
21. Robert C. E., Koeberlein, B., Wu, J., **Burkhardt, B. R.**, Naji, A., and Wolf, B. A. "Transgenic Mice Overexpressing the Novel Islet Specific Cytokine, PANDER, Exhibit Glucose Intolerance and Decreased  $\beta$  Cell Mass." American Diabetes Association, 65<sup>th</sup> Scientific Session, June 10-14, 2005, San Diego, CA. (Late Breaking Abstract).

22. Yang J., Robert, C. E., **Burkhardt, B. R.**, Young, R. A., Wu, J., Gao, Z., and Wolf, B. A. "Mechanisms of Glucose-Induced Secretion of PANDER in Pancreatic  $\beta$  Cells". American Diabetes Association, 65<sup>th</sup> Scientific Session, June 10-14, 2005, San Diego, CA.
23. Yang, J., Robert, C. E., **Burkhardt, B. R.**, Wilson, C., Gao, Z., and Wolf, B. A. "PANcreatic DERived Factor (PANDER, FAM3B) Inhibits Liver Cell Insulin Signaling In Vitro and In Vivo." American Diabetes Association, 66<sup>th</sup> Scientific Session, June 9-13, 2006, Washington D.C.
24. Cook, J. R., **Burkhardt, B. R.**, Young, R. A., and Wolf, B. A. "Pdx-1 Binds To The Promoter Region Of And Upregulates Expression Of Pancreatic Derived Factor (PANDER), A Novel Islet-specific Cytokine." American Diabetes Association, 67<sup>th</sup> Scientific Session, June 22-26, 2007, Chicago, IL. **(Co-authorship)**
25. Carnegie, J. R., Cooperman, C. E., **Burkhardt, B. R.**, Wu, J., Wilson, C. G., and Wolf, B. A. "Expression and Regulation of PANDER from pancreatic alpha cells." American Diabetes Association, 67<sup>th</sup> Scientific Session, June 22-26, 2007, Chicago, IL.
26. **Burkhardt, B. R.**, Carnegie, J. R., Robert-Cooperman, C. E., Young, R. A., Wu, J., Wolf, B. A. "Targeted Disruption of Pancreatic Derived Factor (PANDER, FAM3B) Impairs Glucose Tolerance, Insulin Secretion, and Hepatic Glucose Production." American Diabetes Association, 69<sup>th</sup> Scientific Session, June 5-9, 2009, New Orleans, LA. **(Oral Presentation)**
27. Carnegie, J. R., Robert-Cooperman, C. E., **Burkhardt, B. R.**, Wu, J., Young, R. A., and Wolf, B. A. "Expression, Localization, and Regulation of PANcreatic DERived Factor (PANDER) in Pancreatic  $\alpha$ -Cells." American Diabetes Association, 69<sup>th</sup> Scientific Session, June 5-9, 2009, New Orleans, LA.
28. Dougan, G. C., Moak, S. L., Athanason, M. G., Danse, W. A., Kuehl, M. N., Robert-Cooperman, C. E., and **Burkhardt, B. R.** "Pancreas-Specific PANDER Over Expression Induces Hepatic Insulin Resistance." American Diabetes Association, 72<sup>nd</sup> Scientific Session, June 8-12, 2012, Philadelphia, PA.
29. Moak, S. L., Athanason, M. G., Dougan, G. C., Kuehl, M. N., Danse, W. A., Robert-Cooperman, C. E., and **Burkhardt, B. R.** "Expression and Distribution of PANcreatic-DERived Factor (PANDER) in Human Gastric and Intestinal Tissues." American Diabetes Association, 72<sup>nd</sup> Scientific Session, June 8-12, 2012, Philadelphia, PA.
30. Moak, S. L., Dougan, G. C., and **Burkhardt, B. R.** "Pure C57BL/6 PANDER Knockout Mice Display Enhanced Glucose Tolerance, Insulin Sensitivity and Hepatic Insulin Signaling." American Diabetes Association, 73<sup>rd</sup> Scientific Session, June 21-25, 2013, Chicago, IL. **(Oral Presentation)**
31. Dougan, G. C., Moak, S. L., and **Burkhardt, B. R.** "Glucose Intolerance and Hepatic Lipidemia with Decreased Phospho-AMPK in PANDER Transgenic Mice." American Diabetes Association, 73<sup>rd</sup> Scientific Session, June 21-25, 2013, Chicago, IL. **(Selected Audio Tour Poster)**
32. Danse, W. A., Chechele, A. C., and **Burkhardt, B. R.** "Novel Hepatic Transcriptional Start Site and Glucose-Responsiveness of the PANcreatic-DERived factor (PANDER, FAM3B) Promoter." American Diabetes Association, 73<sup>rd</sup> Scientific Session, June 21-25, 2013, Chicago, IL.
33. **Athanason, M.A., and Burkhardt, B.R.** "Hepatic SILAC Proteomic Analysis of the PANDER Transgenic Mouse Reveals Network of Enhanced Triacylglycerol Production." American Diabetes Association, 73<sup>rd</sup> Scientific Session, June 21-25, 2013, Chicago, IL.
34. Lonrot, M., Lynch, K., Larsson, H., Lernmark, A., Rewers, M., Torn, C., **Burkhardt, B.R.**, Briese, T., Hagopian, W., She, J., Simell, O., Ziegler, A., Akolkar, B., Krischer, J., Hyoty, H., Teddy Study Group. "Febrile respiratory infections are associated with increased risk of islet autoimmunity in the TEDDY study." Immunology of Diabetes Society 13<sup>th</sup> International Congress, December 7-11, 2013, Lorne, Australia.
35. Kuehl, M. N., **Burkhardt, B. R.**, Rodriguez, H., and Alman, A. C. "Salivary Inflammatory Biomarkers Are Associated with Glycemic Control and Gum Health in Type 1 Diabetes." American Diabetes Association, 74<sup>th</sup> Scientific Session, June 13 - 17, 2014, San Francisco, CA.
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