

Preetha Shridas, Ph.D
Research Associate Professor
Division of Endocrinology (Internal Medicine)



I. GENERAL INFORMATION

Address

Office 567 Wethington Building
 900 S. Limestone Street
 Lexington, KY 40536
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 Lexington KY 40515

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Telephone 859-218-1389

II. EDUCATION

Undergraduate

06/1983-05/1985 **Bharathiar University**
 Coimbatore, 641038 India
 B.Sc, Biochemistry, Chemistry and Nutrition & Dietetics (Triple Major)

Professional/Graduate

06/1985-05/1987 **Bharathiar University**
 Coimbatore, 641038 India
 M.Sc, Biochemistry
06/1987-05/1988 **Bharathiar University**
 Coimbatore, 641038 India
 M.Phil, Biochemistry
06/1993-05/1999 **Bharathiar University**
 Coimbatore, 641038 India
 Ph.D, Biochemistry

III. PROFESSIONAL EXPERIENCES

- 09/1990-06/1991 **Avinashilingam Deemed University**, Coimbatore, India
Research Assistant, Department of Biochemistry
- 10/1991-12/1992 **Forest College and Research Institute**, Tamil Nadu Agriculture
University, Coimbatore, India
Research Assistant
- 04/1998-07/2000 **Center for Cellular and Molecular Biology**
Hyderabad, India
Postdoctoral Scholar, Eye Research Group
- 07/2000-02/2001 **Vanderbilt University**
Nashville, TN, USA
Postdoctoral Scholar,
Department of Molecular Physiology and Biophysics
- 02/2001-09/2005 **University of Kentucky**
Lexington, KY, USA
Research Associate,
Biochemistry Department
- 09/2005-03/2009 **University of Kentucky**
Lexington, KY, USA
Scientist III,
Department of Internal Medicine

IV. ACADEMIC APPOINTMENTS**Faculty**

- August 2021 University of Kentucky
Lexington, KY
Graduate Faculty (Nutritional Sciences)
- July 2020- present University of Kentucky
Lexington, KY
Associate Professor (Research Title series)
- 04/2009-June 2020 University of Kentucky
Lexington, KY
Assistant Professor (Research Title series)

Department of Internal Medicine

V. TEACHING ACTIVITIES

- 1996-1998** **Assistant Professor**
Dr. G.R Damodaran College of Science
 Coimbatore, India
 Taught Biochemistry to Undergraduate students
- 2007-2013** **Guest lecturer, “*In vitro* Protein Expression” and “microRNAs” for**
Molecular Biological Applications in Nutrition (NS606); four student
 contact hours

VI. ADVISING ACTIVITIES

Mentored/trained the following undergraduate/graduate/research technicians in the lab

Students:

- 2016-present Madison Rich- Co-advisor for ABT395 research project (recipient of
 Chellgren Undergraduate Research Fellowship).
Co-authored abstracts:
 Barnstable Brown Diabetes Center-Obesity and Diabetes Research Day,
 May 2019, Lexington, KY.
 American Heart Association Vascular Discovery meeting: From Genes to
 Medicine, May, 2019, Boston, MA.
- 2015-2016 Ethan Shen- High School Student, mentor for Math, Science, and
 Technology Center (MSTC) Capstone Research Project.
- 2011-2013 Joseph Layne- Graduate student, Department of Internal Medicine,
 University of Kentucky.
Co-authored papers:
 Journal of Biological Chemistry (2015) 290:7851-7860.
 Journal of Biological Chemistry (2014) 289:27410-27417.
Co-authored abstract:
 Barnstable Brown Obesity and Diabetes Research Day, May 2012,
 University of Kentucky, Lexington, Kentucky.
- 2010 Timothy David Peleshok- Masters student, University of Kentucky.
Co-authored abstracts:
 Gill Heart Institute Cardiovascular research day, October 2010, University
 of Kentucky, Lexington, Kentucky.
 South East Lipid Research Conference (SELRC), October, 2010, Pine
 Mountain, Georgia.
- 2010 Amanda Su- Undergraduate student, Cornelle University.
- 2008-2010 Kayla Talbott- Undergraduate student, University of Kentucky. Co-advisor
 for ABT395 research project (recipient of AMSTEMM Summer Research
 Grant).
Co-authored paper:

- 2001
Journal of Immunology (2011) 187:482-489.
Eun-Jeong Lim- IBS Graduate Rotation Student, Department of Biochemistry, University of Kentucky.
- Staff:**
2011-2012
Lubna Zahoor- Research Technician, Internal Medicine, University of Kentucky.
Co-authored paper:
Journal of Biological Chemistry (2014) 289:27410-27417.
Co-authored abstracts:
American Diabetes Association Scientific Session, June, 2012, Philadelphia, PA.
Barnstable Brown Obesity and Diabetes Research Day, May 2012, University of Kentucky, Lexington, Kentucky
Arteriosclerosis, Thrombosis and Vascular Biology Scientific Sessions, April, 2012, Chicago, IL.
Barnstable Brown Obesity and Diabetes Research Day, May 2011, Lexington, KY.
Arteriosclerosis, Thrombosis and Vascular Biology Scientific Session, April, 2009, Washington DC.
- 2008-2009
William Bailey- Research Analyst, Department of Internal Medicine, University of Kentucky.
Co-authored papers:
Arteriosclerosis Thrombosis Vascular Biology (2015) 35:1156-1165.
American Journal of Pathology (2012) 181:1088-1098.
Journal of Immunology (2011) 187:482-489.
Arteriosclerosis Thrombosis Vascular Biology (2010) 30:2014-2021
Atherosclerosis (2011) 214:58-64.
FASEB J (2010) 24:4313-4324.
Journal of Biological Chemistry (2010) 285:20031-20039.
Co-authored abstracts:
Barnstable Brown Obesity and Diabetes Research Day, May 2012, University of Kentucky, Lexington, Kentucky.
Arteriosclerosis, Thrombosis and Vascular Biology, April, 2012, Chicago, IL.
Barnstable Brown Obesity and Diabetes Research Day, May, 2011, Lexington, KY.
Gill Heart Institute Cardiovascular research day, October 2010, Lexington, KY.
Arteriosclerosis, Thrombosis and Vascular Biology, April, 2010, San Fransisco, CA.
South East Lipid Research Conference, Pine Mountain, Georgia, October 2010.
FASEB meeting, July, 2008, New Haven, CT.
American Heart Association Scientific Sessions, Orlando, Florida. November 2007.

2003-2005 Susan Wang- Research Analyst, Department of Biochemistry, University of Kentucky.

VII. ADMINISTRATIVE ACTIVITIES, UNIVERSITY SERVICE

2022 Member, The Lexington VA Health Care System Research & Development Subcommittee on Research Safety

2016 Summer Research Grants Review panel for University of Kentucky, Undergraduate Research Program

2016 Member, Endocrinology Fellowship candidate selection panel, University of Kentucky

2011-Present Poster Judge at Barnstable Diabetes Research Day, University of Kentucky

2010-Present Poster Judge at Cardiovascular Research Day, University of Kentucky

VIII. HONORS & AWARDS

2019 Barnstable Brown Obesity and Diabetes Research Day, Best Poster Presentation award “Adipocyte-derived Serum Amyloid A Promotes Angiotensin II-induced Abdominal Aortic Aneurysms in Obese C57BL/6 Mice”.

2017 Barnstable Brown Obesity and Diabetes Research Day, Best Poster Presentation Award “Serum Amyloid A activates the NLRP3 inflammasome in macrophages”.

2014-present Member of the Board of Examiners for doctoral students in Biochemistry Avinashilingam Deemed University, Coimbatore, Tamil Nadu, India (The board of examiners consists of three national (Indian) and one international reviewers).

2013-present Member of the Board of Examiners for doctoral students in Biochemistry Bharathiar University, Coimbatore, Tamil Nadu, India (The board of examiners consists of three national (Indian) and one international reviewers).

2011-present Member of the Board of Examiners for doctoral students in Biochemistry Periyar University, Salem, Tamil Nadu, India (The board of examiners consists of three national (Indian) and one international reviewers).

2008 Invited Speaker, Department of Biotechnology, Bharathiar University, Coimbatore, India.

2008 Invited Speaker, Department of Biochemistry, Avinashilingam Deemed University, Coimbatore, India.

1998-2000 Department of Bio-Technology, India-Postdoctoral Fellowship.

1994-1997 Awarded Senior Research Fellowship by Council of Scientific and Industrial Research, India.

1991 Qualified Graduate Aptitude Test in Engineering (GATE; 83%), Government of India Fellowship 1992-1995.

1990 Qualified University Grants Commission, India-Lectureship.

- 1988 Best Oral Presentation Award, Society of Biological Chemists (India), Coimbatore Chapter, One day Symposium, Influence of Therapeutic radiation on serum enzyme levels in cancer patients.

IX. PROFESSIONAL ACTIVITIES, PUBLIC SERVICE & PROFESSIONAL DEVELOPMENT

Doctoral Dissertation Defense Outside Examiner

- 2019 S. Penislusshiyam, Department of Biochemistry, Periyar University, Salem, TN, India.
- 2019 M. Kavitha Rani, Department of Biochemistry, Periyar University, Salem, TN, India.
- 2017 K. Anitha, Department of Biochemistry, Kongunadu Arts and Science College, Bharathiar University, Coimbatore, TN, India.
- 2017 S. Lakshmanasenthil, Department of Biochemistry, CMS College of Science and Commerce, (An Autonomous Institution affiliated to Bharathiar University), Coimbatore, TN, India.
- 2017 G. Suja, Department of Biochemistry, CMS College of Science and Commerce, (An Autonomous Institution affiliated to Bharathiar University), Coimbatore, TN, India.
- 2015 M. Rajeswari, Department of Biochemistry, Avinashilingam Deemed University, Coimbatore, TN, India.
- 2014 A.R. Sumayya, Department of Biochemistry, Avinashilingam Deemed University, Coimbatore, TN, India.
- 2013 G. Dhanalakshmi, Department of Biochemistry, Bharathiar University, Coimbatore, TN, India.
- 2013 M. Charumathy, Department of Biochemistry, Kongunadu Arts and Science College, Coimbatore, TN, India.
- 2011 T. Rajan, Department of Biochemistry, Periyar University, Salem, TN, India.
- 2008 M. Lakshmi Prabha, Department of Biochemistry, Kongunadu Arts and Science College, Coimbatore, TN, India.

Memberships

- 2007-Present American Heart Association
- 2013-2014 American Diabetes Association
- 2007-2008 The Endocrinology Society
- 1998-2000 Indian Eye Research Group, India
- Life member Society of Biological Chemist, India

Manuscript Reviewer

- Atherosclerosis
- Journal of Immunology
- FEBS Journal
- British Journal of Medicine and Medical Research
- Journal of Applied Pharmaceutical Sciences

Endocrine

Editorial Board Member

2021-Cardiovascular Therapeutics

2013-Present Journal of Endocrinology, Diabetes and Obesity

2012-Present American Journal of Clinical and Experimental Immunology

Abstract Grader

2016-Present Abstract grader for American Heart Association, Scientific Sessions

2013-Present Abstract grader for American Heart Association, Atherosclerosis Thrombosis and Vascular Biology (ATVB) Council

X. SPEAKING ENGAGEMENTS

Local

- 05/2019 Adipocyte-derived serum amyloid A promotes angiotensin II-induced abdominal aortic aneurysms in obese C57BL/6 mice, Barnstable Brown Obesity and Diabetes Research Day, University of Kentucky, Lexington, Kentucky.
- 02/2013 Recent insights into (unexpected) functions of group X secretory phospholipase A₂, Cardiovascular Seminar Series, University of Kentucky, Lexington, Kentucky.
- 05/2012 Group X Secretory Phospholipase A₂ Inhibits Glucose-Stimulated Insulin Secretion in Mouse Pancreatic Beta Cells, Barnstable Brown Obesity and Diabetes Research Day, University of Kentucky, Lexington, Kentucky.
- 09/2009 Group X sPLA₂ Integrates Macrophage Lipid Metabolism and Inflammatory Responses by Negatively Regulating Liver X Receptor, Cardiovascular Seminar Series, University of Kentucky, Lexington, Kentucky.

National/International

- 11/2019 Invited speaker- The Role of Serum Amyloid A in Chronic Inflammatory Diseases Department of Biochemistry, Avinashilingam University, Coimbatore, India.
- 11/2009 Group X Secretory Phospholipase A₂ Negatively Regulates Activation of Liver X Receptors, American Heart Association Scientific Sessions, Orlando, Florida.
- 09/2009 Group X Secretory Phospholipase A₂ Suppresses Liver X Receptor Activation and Enhances Inflammatory Response in Macrophages, South East Lipid Research Conference, Callaway Gardens, Pine Mountain, Georgia.
- 04/2009 Group X secretory phospholipase A₂ enhances macrophage inflammatory responses by modulating expression levels of ABCA1 and ABCG1, Arteriosclerosis, Thrombosis and Vascular Biology Scientific Sessions, Washington D.C.
- 01/2008 Invited speaker- Unexpected Functions of Group X Secretory Phospholipase A₂, Department of Biotechnology, Bharathiar University, Coimbatore, India.
- 01/2008 Invited speaker- Unexpected Functions of Group X Secretory Phospholipase A₂, Department of Biochemistry, Avinashilingam University, Coimbatore, India.

- 11/2007 Group X Secretary Phospholipase A2 Negatively Regulates Adrenal Glucocorticoid Synthesis, American Heart Association Scientific Sessions, Orlando, Florida.
- 01/2000 Transglutaminase Mediated Cross-linking of α -crystallin, International Symposium on Cataracts- Molecular and Epidemiological Aspects, Chennai, India.
- 02/2000 Calcium-dependent cross-linking of alpha-crystallin : Structural and Conformational analysis, Annual Conference of Indian Eye Research Group, Hyderabad, India.

XI. RESEARCH AND INTELLECTUAL CONTRIBUTIONS

A. Peer reviewed original Publications

1. Davis TA, Conradie D, **Shridas P**, de Beer FC, Engelbrecht AM and de Villiers WJS (2021) Serum Amyloid A Promotes Inflammation-Associated Damage and Tumorigenesis in a Mouse Model of Colitis-Associated Cancer. *Cell Mol Gastroenterol Hepatol.* S2352-345X(21)00131-00134. PMID: 34217896
2. Fourie C, **Shridas P**, Davis T, de Villiers WJS and Engelbrecht AM (2021) Serum Amyloid A and inflammasome activation: A link to breast cancer progression?. *Cytokine Growth Factor Rev.* 59: 62-70. PMID: 33144050.
3. **Shridas P** and Tannock LR (2019) Role of serum amyloid A in atherosclerosis. *Curr Opin Lipidol.* 30:320-325.
4. Wilson PG, Thompson JC, **Shridas P**, McNamara PJ, de Beer MC, de Beer FC, Webb NR, Tannock LR. (2018) Serum Amyloid A Is an Exchangeable Apolipoprotein. *Arterioscler Thromb Vasc Biol.* 38:1890-1900.
5. **Shridas P***, De Beer MC, Webb NR (2018) High-density Lipoprotein Inhibits Serum Amyloid A-mediated Reactive-Oxygen Species Generation and NLRP3 Inflammasome Activation. *J Biol Chem.* 293:13257-13269. *Corresponding author
6. Tannock LR, de Beer MC, Ji A, **Shridas P**, Noffsinger VP, den Hartigh L, Chait A, de Beer FC, Webb NR (2017) Serum Amyloid A3 is a High Density Lipoprotein-Associated Acute-Phase Protein. *J Lipid Res.* 59: 339-347.
7. Thompson JC, Wilson PG, **Shridas P**, Ji A, de Beer M, de Beer FC, Webb NR, Tannock LR (2018) Serum Amyloid A3 is Pro-Atherogenic. *Atherosclerosis* 268:32-35.
8. **Shridas P**, Noffsinger VP, Trumbauer AC, Webb NR (2017) The Dual Role of Group V Secretary Phospholipase A₂ in Pancreatic β -cells. *Endocrine* 58: 47-58. * Corresponding author.
9. Webb NR, De Beer MC, Wroblewski JM, Ji A, Bailey W, **Shridas P**, Charnigo RJ, Noffsinger VP, Witta J, Howatt DA, Balakrishnan A, Rateri DL, Daugherty A, De Beer FC (2015) Deficiency of Endogenous Acute-phase Serum Amyloid A Protects apoE^{-/-} Mice from Angiotensin II-induced Abdominal Aortic Aneurysm Formation. *Arterioscler Thromb Vasc Biol.* 35: 1156-1165.
10. Layne JD, **Shridas P**, Webb NR (2015) Ectopically Expressed Pro-Group X Secretary Phospholipase A₂ is Proteolytically Activated in Mouse Adrenal Cells by

- Furin-like Proprotein Convertases: Implications for the Regulation of Adrenal Steroidogenesis. *J Biol Chem.* 290: 7851-7860.
11. **Shridas P***, Zahoor L, Forrest K, Layne J and Webb NR (2014) Group X Secretory Phospholipase A₂ Regulates Insulin Secretion Through a Cyclooxygenase-2-Dependent Mechanism. *J Biol Chem.* 289: 27410-27417. * Corresponding author
 12. De Beer MC, Wroblewski JM, Noffsinger VP, Rateri DL, Howatt DA, Balakrishnan A, Ji A, **Shridas P**, Thompson JC, van der Westhuyzen DR, Tannock LR, Daugherty A, Webb NR, De Beer FC (2014) Deficiency of Endogenous Acute Phase Serum Amyloid A Does not Affect Atherosclerotic Lesions in ApoE Deficient Mice. *Arterioscler Thromb Vasc Biol.* 34:255-261.
 13. **Shridas P***, Zhi L, Akundi RS, Webb NR, Pearson KJ, Büeler H* (2013) PTEN-Induced Kinase 1 Regulates Mitochondrial Integrity, Autophagy And Insulin Secretion In Mouse Pancreatic β -Cells. *J Endocrinol Obesity and Diabetes.* 1: 1007-1014.* Corresponding authors.
 14. Carter LG, Lewis KN, Wilkerson DC, Tobia CM, Ngo Tenlep SY, **Shridas P**, Garcia-Cazarin ML, Wolff G, Andrade FH, Charnigo RJ, Esser KA, Egan JM, de Cabo R, Pearson KJ (2012) Perinatal Exercise Improves Glucose Homeostasis in Adult Offspring. *Am J Physiol Endocrinol Metab.* 303:E1061-8.
 15. Boyanovsky BB, Bailey WM, Dixon L, **Shridas P**, Webb NR (2012) Group V Secretory Phospholipase A₂ Enhances the Progression of Angiotensin II-Induced Abdominal Aortic Aneurysms but Confers Protection against Angiotensin II-Induced Cardiac Fibrosis in ApoE-Deficient Mice. *Am J Pathol.* 181: 1088-1098.
 16. **Shridas P***, Bailey WM, Talbott KR, Oslund RC, Gelb MH, Webb NR (2011) Group X Secretory Phospholipase A₂ enhances Toll-Like Receptor 4 Signaling in Macrophages. *J Immunol.* 187:482-489. * Corresponding author.
 17. Zack M, Boyanovsky BB, **Shridas P**, Bailey W, Forrest K, Howatt DA, Gelb MH, de Beer FC, Daugherty A, Webb NR. (2011) Group X Secretory Phospholipase A₂ (sPLA₂) Augments Angiotensin II-Induced Inflammatory Responses and Abdominal Aortic Aneurysm Formation in ApoE-Deficient Mice. *Atherosclerosis.* 214:58-64.
 18. **Shridas P**, Bailey WM, Gizard F, Oslund RC, Gelb MH, Bruemmer D, Webb NR (2010) Group X Secretory Phospholipase A₂ Negatively Regulates ABCA1 and ABCG1 Expression and Cholesterol Efflux in Macrophages. *Arterioscler Thromb Vasc Biol.* 30:2014-2021.
 19. Boyanovsky BB, Li X, **Shridas P**, Sunkara M, Morris AJ, Webb NR (2010) Bioactive Products Generated by Group V sPLA₂ Hydrolysis of LDL Activate Macrophages to Secrete Pro-Inflammatory Cytokines. *Cytokine.* 50:50-57.
 20. Li X, **Shridas P**, Forrest K, Bailey W, Webb NR. (2010) Group X Secretory Phospholipase A₂ Negatively Regulates Adipogenesis in Murine Models. *FASEB J.* 24:4313-4324.
 21. **Shridas P**, Bailey WM, Boyanovsky BB, Oslund RC, Gelb MH, Webb NR. (2010) Group X Secretory Phospholipase A₂ Regulates the Expression of Steroidogenic Acute Regulatory Protein (StAR) in Mouse Adrenal Glands. *J Biol Chem.* 285:20031-20039.
 22. Boyanovsky BB, **Shridas P**, Simons M, van der Westhuyzen DR, Webb NR (2009) Syndecan-4 Mediates Macrophage Uptake of Group V Secretory Phospholipase A₂-Modified Low Density Lipoprotein. *J Lipid Res.* 50: 641-50.

23. Sun B, Boyanovsky BB, Connelly MA, **Shridas P**, R van der Westhuyzen D, Webb NR (2007) Distinct Mechanisms for OxLDL Uptake and Cellular Trafficking by Class B Scavenger Receptors CD36 and SR-BI. *J Lipid Res.* 48:2560-2570.
24. **Shridas P** and Waechter CJ (2006) Human Dolichol Kinase, a Polytopic Endoplasmic Reticulum Membrane Protein with a Cytoplasmically Oriented CTP-Binding Site. *J Biol Chem.* 281: 31696-31704.
25. **Shridas P**, Rush JS and Waechter CJ (2003) Identification and Characterization of a cDNA Encoding a Long-Chain cis-Isoprenyltransferase Involved in Dolichyl Monophosphate Biosynthesis in the ER of Brain Cells. *Biochem Biophys Res Commun.* 312: 1349-1356.
26. Fernandez F, **Shridas P**, Jiang S, Aebi M, and Waechter CJ (2002) Expression and Characterisation of a Human cDNA that Complements the Temperature-Sensitive Defect in Dolichol Kinase Activity in the Yeast *sec59-1* Mutant: the Enzymatic Phosphorylation of Dolichol and Diacylglycerol are Catalysed by Separate CTP-Mediated Kinase Activities in *Saccharomyces Cerevisiae*. *Glycobiology.* 12: 1-8.
27. **Shridas P**, Sharma Y and Balasubramanian (2001) Transglutaminase-Mediated Cross Linking of Alpha Crystalline: Structural and Functional Consequences. *FEBS Letters.* 24981: 1-6.
28. Bheemareddy R, **Shridas P**, Sundari CS, Dasari M, Chandani S, Fairwell T, and Sharma Y (2001) Calcium Binding Properties of γ -crystallin: Calcium Ion Bind at the Greek-Key $\beta\gamma$ -Crystallin Fold. *J Biol Chem.* 276: 38464-38471.
29. Uvarani G, Jaganathan L, **Shridas P** and Boopathy R (1998) Purification and Characterization of Lipase from *Rhizomucor Miehei*, *J Sci and Ind Res.* 364: 84-87.
30. **Shridas P** and Boopathy R (1998) Chemical Modification Studies of *Rhizomucor Miehei* Protease: Role of Basic Amino Acids. *Indian J Biochem Biophys.* 35: 339-345.
31. **Shridas P** and Boopathy R (1996) Purification and Characterization of Milk Clotting Protease from *Rhizomucor Miehei*. *World J Microbiol Biotechnol.* 13: 573-578.
32. **Shridas P** and Boopathy R (1994) Influence of Culture Conditions on the Production of Milk Clotting Protease from *Rhizomucor* sp. *World J Microbiol Biotechnol.* 10: 527-530.
33. **Shridas P** and Boopathy R (1998) *Advances in Biotechnology/Ashok Pandey.* xii, 514 Purification and Characterization of Milk Clotting Protease from *Rhizomucor Miehei*.

B. Peer Reviewed Review Articles

1. **Shridas P**, Patrick AC and Tannock LR (2021) Role of Serum Amyloid A in Abdominal Aortic Aneurysm and Related Cardiovascular Diseases. *Biomolecules*11(12):1883. PMID: 34944527
2. Fourie C, **Shridas P**, Davis T, de Villiers WJS, Engelbrecht AM (2020) Serum Amyloid A and inflammasome activation: A link to breast cancer progression? *Cytokine Growth Factor Rev.* S1359-6101: 30220-30222.
3. **Shridas P** and Tannock LR. (2019) Role of Serum Amyloid A in atherosclerosis. *Curr Opin Lipidol.* 30:320-325.

4. **Shridas P*** and Webb NR (2014) Diverse functions of secretory phospholipase A₂. *Advances in Vascular Medicine*. Article ID 689815, 11 pages, 2014. <https://doi.org/10.1155/2014/689815>. * Corresponding author

C. Abstract Presentations

1. Trumbauer AC, Noffsinger VP, Ji A, De Beer FC, Dugan A, Mullick A, Webb NR, **Shridas P**, Tannock R, Suppression of Serum Amyloid A (SAA) limits progression of obesity-associated abdominal aortic aneurysms, *Vascular Discovery: from Genes to Medicine*, Virtual Meeting, September 2021.
2. Trumbauer AC, Noffsinger VP, Ji A, De Beer FC, Dugan A, Mullick A, Webb NR, **Shridas P**, Tannock R, Suppression of Serum Amyloid A (SAA) limits progression of obesity-associated abdominal aortic aneurysms, *Cardiovascular Research Day*, Lexington, KY September 2021.
3. Trumbauer AC, Noffsinger VP, Ji A, De Beer FC, Dugan A, Mullick A, Webb NR, **Shridas P**, Tannock R, Suppression of Serum Amyloid A (SAA) limits progression of obesity-associated abdominal aortic aneurysms, *Cardiovascular Research Day*, Lexington, KY September 2021. Barnstable Brown Diabetes Center-Obesity and Diabetes Research Day; November 2021, Lexington, KY. ***Won best presentation award.**
4. Davis T, Conradie D, **Shridas P**, de Beer MC, de Beer FC, Engelbrecht AM and de Villiers WJ, 2020. Sa1108 Serum Amyloid A Promotes Inflammation-associated Damage, Macrophage Infiltration and Tumorigenesis in a Mouse Model of Colitis-Associated Colon Cancer. *Gastroenterology*, 158(6), pp.S-278.
5. Ji A, **Shridas P**, Trumbauer AC, Noffsinger VP, Rich MR, de Beer FC, Webb NR and Tannock LR. The Pro-atherogenic Effects of Serum Amyloid A is enhanced by Cholesterol Ester Transfer Protein, *Vascular Discovery: from Genes to Medicine*, Virtual Meeting, May 2020.
6. Ji A, **Shridas P**, Trumbauer AC, Ji A, Noffsinger VP, Rich M, de Beer MC, de Beer FC, Tannock LR and Webb NR, Adipocyte-derived serum amyloid A promotes angiotensin II-induced abdominal aortic aneurysms in obese C57BL/6 mice. *Southeast Lipid Research Conference*, September 2019.
7. Ji A, **Shridas P**, Trumbauer AC, Ji A, Noffsinger VP, Rich M, de Beer MC, de Beer FC, Tannock LR and Webb NR (2019) Adipocyte-derived serum amyloid A promotes angiotensin II-induced abdominal aortic aneurysms in obese C57BL/6 mice. *Cardiovascular Research Day*, Lexington, KY September 2019.
8. **Shridas P**, Trumbauer AC, Li A, Noffsinger VP, Rich MR, de Beer FC, Webb NR and Tannock LR. Serum amyloid A Mediates the Pro-atherogenic Effects of Cholesterol Ester Transfer Protein in Mice. *Cardiovascular Research Day*, Lexington, KY September 2019.
9. **Shridas P**, Trumbauer AC, Ji A, Noffsinger VP, Rich M, de Beer MC, de Beer FC, Webb NR and Tannock LR. Adipocyte-derived serum amyloid A promotes angiotensin II-induced abdominal aortic aneurysms in obese C57BL/6 mice. *Barnstable Brown Diabetes Center-Obesity and Diabetes Research Day*; May 2019, Lexington, KY. ***Won best poster presentation award.**
10. **Shridas P**, Trumbauer AC, Ji A, Noffsinger VP, Rich M, de Beer MC, de Beer FC, Webb NR and Tannock LR. Adipocyte-derived serum amyloid A promotes angiotensin II-

- induced abdominal aortic aneurysms in obese C57BL/6 mice. American Heart Association Vascular Discovery: From Genes to Medicine meeting; May 2019, Boston, MA.
11. **Shridas P**, De Beer MC and Webb NR. High-density lipoprotein potently inhibits NLRP3-mediated inflammasome activation by Serum Amyloid A in macrophages. Arteriosclerosis, Thrombosis and Vascular Biology Scientific Sessions; May 2018, San Francisco, CA.
 12. **Shridas P**, De Beer MC and Webb NR. High-density lipoprotein potently inhibits NLRP3-mediated inflammasome activation by Serum Amyloid A in macrophages. Cardiovascular Research day; September 2018, University of Kentucky, Lexington, KY.
 13. **Shridas P***, De Beer MC and Webb NR. Serum Amyloid A activates the NLRP3 inflammasome in macrophages. Barnstable Brown Obesity and Diabetes Research Day; May 2017, University of Kentucky, Lexington, KY. ***Won best poster presentation award.**
 14. **Shridas P**, De Beer MC and Webb NR. High-density lipoprotein potently inhibits NLRP3-mediated inflammasome activation by Serum Amyloid A in macrophages. Southeast Lipid Research Conference; November 2017, Lexington, KY.
 15. **Shridas P**, Ji A, Noffsinger VP, Mattingly AC and Webb NR. Serum Amyloid A: A link between Inflammation and Metastatic Lung Cancer. Kentucky Lung Cancer Research Symposium; October 2016, University of Kentucky, Lexington, KY.
 16. **Shridas P**, Ji A, Noffsinger VP, Mattingly AC and Webb NR. Serum Amyloid A: A link between Inflammation and Metastatic Lung Cancer. Southeast Lipid Research Conference; November 2016, University of Kentucky, Lexington, KY.
 17. **Shridas P**, Noffsinger VP and Webb NR. Nonredundant and opposing roles of group V and group X secretory phospholipases A₂ in pancreatic beta-cell function. Arteriosclerosis, Thrombosis and Vascular Biology; May 2015, San Francisco, CA.
 18. **Shridas P**, Noffsinger VP, Mattingly AC and Webb NR. Role of Group V Secretory Phospholipase A₂ on Pancreatic Beta-cell Function. Southeast Lipid Research Conference; September 2015, Pine Mountain, Georgia.
 19. Subramanian V, Muniappan L and **Shridas P**. Calpain Inhibition Suppresses Differentiation of 3T3-L1 adipocytes. Barnstable Brown Obesity and Diabetes Research Day; May 2012, University of Kentucky, Lexington, Kentucky.
 20. Layne J, **Shridas P**, Forrest K and Webb NR. Group X Secretory Phospholipase A₂ Deficiency Does Not Protect Mice From High Fat Diet-Induced Metabolic Dysfunction or Adipose Tissue Inflammation. Barnstable Brown Obesity and Diabetes Research Day; May 2012, University of Kentucky, Lexington, Kentucky.
 21. Akundi, R, **Shridas P**, Zhi L, Cass W, Pearson K and Bueler H. Neurological, Cell Signaling and Metabolic Defects in PINK1-Deficient Mice Support a Link Between Diabetes and Early-Onset Parkinson's Disease. Barnstable Brown Obesity and Diabetes Research Day; May 2012, University of Kentucky, Lexington, Kentucky.
 22. Zahoor L and **Shridas P**. Group V secretory phospholipase A₂ regulates insulin secretion by mouse pancreatic islet cells. American Diabetes Association Annual Meeting; June 2012, Philadelphia, PA.
 23. **Shridas P**, Zahoor L, Bailey W, Forrest K and Webb N.R. Group X Secretory Phospholipase A₂ Inhibits Glucose-Stimulated Insulin Secretion in Mouse Pancreatic Beta Cells. Barnstable Brown Obesity and Diabetes Research Day ; May 2012, University of Kentucky, Lexington, Kentucky.

24. **Shridas P**, Zahoor L, Bailey W, Forrest K and Webb N.R. Group X secretory phospholipase A₂ regulates insulin secretion by mouse pancreatic beta cells. Arteriosclerosis, Thrombosis and Vascular Biology Scientific Sessions; April 2012, Chicago, IL.
25. Akundi RS, **Shridas P**, Zhi L, Cass WA, Pearson KJ, Bueler H. Neurological, Cell Signaling and Metabolic Defects in PINK1-deficient Mice Support a Link Between Diabetes and Early-Onset Parkinson's Disease. Parkinson Action Network Forum; February 2012, Washington D.C.
26. Akundi RS, **Shridas P**, Zhi L, Cass WA, Pearson KJ, Bueler H. PINK1-deficient Mice as a Potential Model to Study Common Mechanisms of Diabetes and Neuronal Dysfunction. American Society for Neurochemistry; May 2012, Baltimore, MD.
27. **Shridas P**, Zahoor L, Bailey W, Forrest F and Webb NR. Role of Group X Secretory Phospholipase A₂ in Mouse Pancreatic Beta Cell Function. Barnstable Brown Obesity and Diabetes Research Day; May 2011, Lexington, KY.
28. Peleshok D, Bailey W, Forrest F, Webb NR and **Shridas P**. Role of Group X Secretory Phospholipase A₂ in Pancreatic β -cell function. Gill Heart Institute Cardiovascular research day; October 2010, Lexington, KY.
29. Peleshok D, Bailey W, Forrest F, Webb NR and **Shridas P**. Role of Group X Secretory Phospholipase A₂ in Pancreatic β -cell function. South East Lipid Research Conference; October 2010, Pine Mountain, Georgia.
30. **Shridas P**, Bailey W and Webb N.R. Group X secretory phospholipase A₂ enhances macrophage inflammatory responses by modulating expression levels of ABCA1 and ABCG1. Conference on Arteriosclerosis, Thrombosis and Vascular Biology; April, 2009, Washington D.C.
31. **Shridas P** and Webb, NR. Group X secretory phospholipase A₂ modulates macrophage inflammatory response. South East Lipid Research Conference; October 2008, Pine Mountain, Georgia.
32. **Shridas P**, Bailey W, Oslund RC, Gelb MH and Webb NR. Group X Secretory Phospholipase A₂ Negatively Regulates Adrenal Glucocorticoid Synthesis. FASEB meeting; July 2008, New Haven, CT.
33. **Shridas P**, Bailey W, Oslund RC, Gelb MH, and Webb N.R. Group X secretory phospholipase a₂ negatively regulates adrenal glucocorticoid synthesis. American Heart Association Scientific Sessions; November 2007, Orlando, Florida.
34. Webb NR, Li X, Forrest K, Bailey W, Boyanovski B, **Shridas P**, De Beer FC. Group X sPLA₂ Deficiency Increases Adiposity and Adipose Tissue Inflammation in Mice. American Heart Association Scientific Sessions; November 2007, Orlando, Florida.
35. **Shridas P**, Bailey W and Webb NR. Regulation of adrenal glucocorticoid synthesis by Group X secretory phospholipase A₂. Gill Heart Institute Cardiovascular research day; September 2007, Lexington, KY.
36. **Shridas P**, and Webb NR. Group X secretory phospholipase A₂ plays a role in the regulation of adrenal glucocorticoid synthesis. Arteriosclerosis, Thrombosis and Vascular Biology Scientific Sessions; May 2007, Chicago, IL.
37. **Shridas P**, Boyanovsky B, Webb NR. Group X secretory phospholipase A₂ plays a role in the regulation of adrenal glucocorticoid synthesis. Gill Heart Institute Cardiovascular research day; September 2006, Lexington, KY.

38. Boyanovsky B, **Shridas P**, and Webb NR. Syndecan-3 and -4 participate in macrophage uptake of low-density lipoproteins hydrolyzed by Group V secretory phospholipase A₂. Conference on Arteriosclerosis, Thrombosis and Vascular Biology; April 2006, Denver CO.
39. **Shridas P**, Fernandez F, Jiang S, Rush JS, Aebi M, and Weachter CJ. Cloning and expression of a cDNA that encodes dolichol kinase in human brain. Experimental Biology; April 2002, New Orleans, LA.
40. Mchaourab HS, **Shridas P**. Towards a Molecular Dissection of α A Crystallin Chaperone Function. The Association for Research in Vision and Ophthalmology Annual Meeting; April 2001, Florida, USA.
41. **Shridas P**, Sharma Y, and Balasubramanian D. Transglutaminase Mediated Cross-linking of Alpha-Crystallin: Structural and Functional Consequences. The Third Asian Cataract Conference; November 2000, Kowloon, Hong Kong.
42. Sharma Y, Bheemareddy R, and **Shridas P**. Calcium Binding Properties of Beta gamma, Crystallins; The Third Asian Cataract Conference; November 2000; Kowloon, Hong Kong.
43. **Shridas P**, Sharma Y and Balasubramanian D. Transglutaminase mediated cross linking of α -crystallin. International Symposium on Cataracts- Molecular and Epidemiological aspects; February 2000, Chennai, India.
44. **Shridas P**, Sharma Y and Balasubramanian D. Calcium-dependent cross-linking of alpha-crystallin : Structural and Conformational analysis. Annual meeting of Indian Eye Research Group; February 2000, Hyderabad, India.
45. Yogendra S, **Shridas P**, Bheemareddy R and Sushil Chandani. Calcium binding properties of γ -crystallin. Is the greek-key γ -crystallin fold a calcium binding motif? Annual meeting of Indian Eye Research Group; April 2000, Hyderabad, India.
46. **Shridas P** and Boopathy R. Purification and characterisation of aspartyl protease from *Rhizomucor miehei*. International conference on Frontiers in Biotechnology; September 1997, Trivandrum, India.
47. Boopathy R and **Shridas P**. Functional characterization of milk clotting protease from *Rhizomucor miehei*. Frontiers in Biology and Biotechnology; May 1997, Vellore, India.
48. **Shridas P** and Boopathy R. Influence of culture conditions on the production of milk clotting enzyme from *Rhizomucor*. National Symposium on Current trends in Biochemistry and Biotechnology of Fungi; January 1997, Hyderabad, India.
49. **Shridas P**, Pushpa A and Giri J. Influence of Therapeutic radiation on serum enzyme levels in cancer patients. One day symposium on 'Recent trends in Biochemistry', Society of Biological Chemists Coimbatore Chapter; May 1988, Coimbatore, India.

D. Sponsored Research Projects, Grant & Contract Activities.

Active Grants

R01 National Institute of Health/NHLBI
 (Tannock, Shridas-MPI) 07/05/2020 – 06/30/2024
 40% effort
 Grant number HL147381, \$327,828 \$ direct/year
 Mechanisms regulating the atherogenic activities of serum amyloid A
 Role: **PI**.

Center for Clinical and Translational Science
UK Alliance Research Pilot Award (K-RALD Alliance)

Shridas (PI) and Christopher Waters (co-PI)

\$50,000/year.

“Serum Amyloid A resolves experimental acute lung injury in mice”.

Completed

R01 National Institute of Health/NHLBI

(Webb, de Beer-MPI) 9/2016-8/2021 35% effort

Grant number HL134731. \$344,811/y Direct

Serum Amyloid A, Inflammasome Activation, and Abdominal Aortic Aneurysms

This project investigates the role of serum amyloid A (SAA) in the initiation and progression of abdominal aortic aneurysms (AAA) and tests the hypothesis that systemic SAA promotes AAA by activated the NLRP3 inflammasome in macrophages that have been recruited to an established AAA.

Role: Co-investigator

Washington University Diabetes Research Center Collaborative Pilot & Feasibility Grant

(Shridas, PI) 12/2019-11/2020. 25% Effort

Grant number DK020579-42. 40,000 \$ direct/year

Serum Amyloid A- a novel mediator of adipose-tissue inflammation and insulin resistance.

This project investigates the role of systemic versus locally produced Serum Amyloid A in the development of adipose-tissue inflammation and insulin resistance in obese mice.

Role: PI.

RO1 National Institute of Health/NIDDK

(Webb-PI) 08/09-07/2015 75% effort.

Grant number DK082419. \$ 226, 500/y Direct

This project investigated the role of Group X sPLA₂ as a regulator of lipolysis and glucose homeostasis.

Role: Co-investigator

NIH/National Center for Research Resources Centers of Biomedical Research Excellence in Obesity and Cardiovascular Disease -Pilot Grant

(Shridas-PI) 12/2010-11/2011 7.5% effort.

Grant number P20 RR021954. \$50,000 total.

The project investigated the role of group X secretory phospholipase A₂ in glucose-stimulated insulin secretion by pancreatic beta cells.

Role: PI.

NIH/National Center for Research Resources Centers of Biomedical Research Excellence in Obesity and Cardiovascular Disease -Pilot Grant

(Shridas-PI) 12/2011-11/2012 7.5% effort.

Grant number P20 GM103527. \$35,000 total.

The project investigated the role of secretory phospholipase A₂s in pancreatic islet cell function and glucose homeostasis in mice.
Role: PI.

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