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### 2014-2015 Department of Surgery Scholarly Activity Report

Quillen College of Medicine, East Tennessee State University

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**EAST TENNESSEE STATE UNIVERSITY  
JAMES H. QUILLEN COLLEGE OF MEDICINE  
SUMMARY OF SCHOLARLY ACTIVITIES  
DEPARTMENT OF SURGERY**

**July 1, 2014 through June 30, 2015**

**I. PUBLICATIONS**

**A. Journal Publications**

Haynes DF, Kreithen JC. Vicryl Mesh in Expander/Implant Breast Reconstruction: Long-Term Follow-Up in 38 Patients. *Plastic & Reconstructive Surgery*. 2014. 134(5): 892-899.

Hoover D, Ozment T, Li C, Williams DL. Impaired heart rate regulation and depression of cardiac chronotropic and dromotropic function in polymicrobial sepsis. *Shock*. 2014. Epub ahead of print.

Kelley JL, Ozment TR, Li C, Schweitzer JB, Williams DL. Scavenger receptor-A (CD204): a two-edged sword in health and disease. *Crit Rev Immunol*. 2014; 34(3):241-261. PMID: PMC4191651.

Lamb EK, Kao GW, Li C, Kao RL. Cellular Cardiomyoplasty Using Skeletal Muscle Stem Cells. *The Open Surgery Journal*, 2015, 9, 1-8.

Noss I, Ozment TR, Graves BM, Kruppa MD, Rice PJ, Williams DL. Cellular and molecular mechanisms of fungal (1-6)-B-D-glucan in macrophages. Accepted for publication in *Innate Immunity*, 2015.

Pham HD, Taylor LA. Small bowel obstruction due to ingested superabsorbent beads. *Journal of Pediatric Surgery Case Reports*. In Press. 2015.

Skibba AA, West Jr. MR, Evans JR, Hopkins SP, Maltais S, Rush DS. *Aspergillus* thromboembolism from a mycotic ascending aortic pseudoaneurysm. *Journal of Vascular Surgery Cases*, 2015, 1(2):94-96.

Smeekens SP, Gresnigt MS, Becker KL, Cheng SC, Netea SA, Jacobs L, Jansen T, van de Veerdonk FL, Williams DL, Joosten LA, Dinarello CA, Netea MG. An anti-inflammatory property of *Candida albicans*  $\beta$ -glucan: Induction of high levels of interleukin-1 receptor antagonist via a Dectin-1/CR3 independent mechanism. *Cytokine* 2014; 71(2):215-222.

Song J, Zhu Y, Li J, Liu J, Gao Y, Ha T, Que L, Liu L, Zhu G, Chen Q, Xu Y, Li C, Li Y. Pellino1-mediated TGF- $\beta$ 1 synthesis contributes to mechanical stress induced cardiac fibroblast activation. *J Mol Cell Cardiol*. 11/13/2014. 79C:145-156.

Stone Jr. B, Vargo J, Liu P, Habeeb D, DeLucia A, Trail M, Hu Y, Russell A. Avoided Heat-Related Mortality through Climate Adaptation Strategies in Three US Cities. *PLoS One* 2014; 9(6): e100852.

Testerman GM, Pham HD. Samurai sword stabbing causing an isolated right hepatic artery injury: unique case presentation with a brief review of the literature. *American Surgeon*. In Press. 2015.

Testerman, Anderson, Beatty, Skibba, Al-balbissi, O'Neal, Heim, Barel. All-Terrain Vehicle Accident trends at a Tennessee Trauma center in 2014. *American Surgeon*. 81(3):E128-9. 2015.

Zhang X, Ha T, Lu C, Lam F, Liu L, Schweitzer J, Kalbfleisch J, Kao RL, Williams DL, Li C. Poly I:C therapy decreases cerebral ischemia/reperfusion injury via TLR3-mediated prevention of Fas/FADD interaction. *Journal of Cellular & Molecular Medicine*, 19(3):555-65, 2015.

Zhang X, Lu C, Gao M, Cao X, Ha T, Kalbfleisch JH, Williams DL, Li C, Kao, RL. Toll-like receptor 4 plays a central role in cardiac dysfunction during trauma hemorrhage shock. *Shock* 2014; 42(1):31-7.

## **B. Books or Chapters**

## **C. Proceedings**

## **II. PAPERS, ABSTRACTS, AND/OR PRESENTATIONS**

### **A. Regional and National**

Al-Balbissi L, Testerman G, Moss C, Pham H. Survival from Trans-Abdominal Fence Post Impalement. Oral presentation given at Southeastern Surgical Congress, Feb. 22-23, 2015, Chattanooga, TN.

Bardoner J, Lee J, Franchesca, Roubichaud. Congenital Absence of the Portal Vein. Poster presented at Southeastern Surgical Congress, Feb. 22-23, 2015, Chattanooga, TN.

Bassante M, Beatty J, Hart S. Colonoscopy after recovery is essential in the treatment of perforated diverticulitis with laparoscopic peritoneal lavage and drainage. Poster presented at Southeastern Surgical Congress, Feb. 22-23, 2015, Chattanooga, TN.

Downs AM, Ozment TR, Bond C, Elgazzar M, Williams DL, Hoover DB. Leukocytes may alter their mode of acetylcholine release during sepsis. Abstract submitted to Shock Society Annual Meeting, Denver, CO.

Hart S, Beatty JS. Delayed Laparoscopic Drainage is a Safe and Effective Adjunct in the Treatment of Post-Traumatic Biloma in Pediatric Patients. Poster presented at Southeastern Surgical Congress, Feb. 22-23, 2015, Chattanooga, TN.

Kwofie F, Greene R, Lowman DW, Williams DL, Kruppa MD. *Candida albicans* Hyphal Mannan is Structurally Distinct from Yeast Mannan. Abstract accepted for publication at American Society for Microbiology General Meeting, New Orleans, LA, May 30-June 2, 2015.

Ma H, Wang X, Ha T, Kalbfleisch J, Kao R, Williams DL, Li C. Hexokinase inhibition attenuates cardiac dysfunction in polymicrobial sepsis. Abstract accepted for Poster Presentation to Shock Society Annual Meeting, Denver, CO, June 8, 2015.

Matrisch M, Blanton R, Lorio M. Intrarterial Injury of Zolpiden Resulting in Ischemia treated successfully with Thrombolysis. Poster presented at Southeastern Surgical Congress, Feb. 22-23, 2015, Chattanooga, TN.

Ozment TR, Williams DL. Scavenger Receptor Class A (SRA/CD204) Decreases the internalization of bacteria by neutrophils. Abstract accepted for Poster Presentation to Shock Society Annual Meeting, Denver, CO., June 7, 2015.

Prior D, Testerman G, Bassante M. Angioembolization of Replaced Right Hepatic Artery in Grade IV Liver Laceration. Poster presented at Southeastern Surgical Congress, Feb. 22-23, 2015, Chattanooga, TN.

Ramsayer MM, Ehrenfried J. Cecal adenocarcinoma presenting as an incarcerated inguinal hernia in a patient with concomitant abdominal aortic aneurysm. Poster presented at Southeastern Surgical Congress, Feb. 22-23, 2015, Chattanooga, TN.

Skibba A, Rush D. Redefining the operative threshold for females with AAA's. Poster presented at Southern Association for Vascular Surgery, Jan. 14-17, 2015, Scottsdale, Arizona.

Skibba A, Rush D. Type 3 endoleaks associate with the Endologix platform. Poster presented at Southern Association for Vascular Surgery, Jan. 14-17, 2015, Scottsdale, Arizona.

Skibba A, Rush D. Aspergillus Thromboembolism from Mycotic Ascending Aortic Pseudoaneurysm. Oral Presentation given at Tennessee Chapter, American College of Surgeons, August 8-10, 2014, Paris Landing State Park, Buchanan, TN.

Wang X, Ha T, Ma H, Kalbfleisch J, Kao R, Williams DL, Li C. Toll-Like Receptor 3 Stimulates Cardiomyocyte Proliferation and Cardiac Regeneration After Myocardial Infarction: Correlation with the Warburg Effect. Abstract accepted for Oral Presentation to Shock Society Annual Meeting, Denver, CO., June 9, 2015.

Wang X, Ha T, Zhang X, Lu C, Liu L, Kao R, Williams D, Li C. Bone Marrow Stromal Cell Derived Exosomes Carrying Microrna-486 Attenuate H/r-induced Cardiac Myocyte Damage *In Vitro* and I/R-induced Myocardial Injury *In Vivo*. Poster presented to American Heart Association Scientific Sessions, Chicago, IL, Nov. 15-19, 2014.

Zhang X, Wang X, Ha T, Liu L, Kao R, Kalbfleisch J, Williams D, Li C. Endothelial Cell Hspa12B Plays A Cardioprotective Role in Sepsis Induced Cardiac Dysfunction Via the Release of MicroRNA Containing Exosomes. Poster presented to American Heart Association Scientific Sessions, Chicago, IL, Nov. 15-19, 2014.

Zhang X, Wang X, Ha T, Liu L, Kao R, Kalbfleisch J, Williams D, Li C. Endothelial Cell Hspa12B Plays A Cardioprotective Role in Sepsis Induced Cardiac Dysfunction Via the Release of MicroRNA Containing Exosomes. Poster presented to 2015 Appalachian Student Research Forum, ETSU, Johnson City, TN, April 7-8, 2015. AWARD?

## **B. International**

### **III. INVITED PRESENTATIONS**

#### **A. Grand Rounds**

#### **B. National or International Meetings**

### **IV. OTHER**

#### **National and International Peer-review Committees**

Li, C. NIH SAT Review Session for Cardiovascular Differentiation & Development  
Li, C. Review for Austrian Science Foundation

#### **Journal Reviewers:**

Williams DL.

Li C.  
Browder IW.

## V. VISITING PROFESSORS

## IV. OTHER

Pham, H.D. SCORE curriculum question contributor from August – December 2014.  
www.surgicalcore.org

Taylor, Leslie. Winner of College of Medicine Caduceus Award, 2015.

## VI. EXTRAMURAL FUNDING

**Number of PI's on Funded Grants: 3**

## VI EXTRAMURAL FUNDING

Peer Review (NIH, AHA, etc.)

Faculty	Agency	Project Period	Current Year Award	Total Award
Li	NIH-R01 <sup>1</sup>	7/1/14 – 6/30/18	365,000.00	\$1,460,000.00
Williams	NIH-R01 <sup>2</sup>	12/1/14 – 11/30/15	\$176,965 DC 81,404 IC	\$1,148,308.00
Li & Williams	NIH-R01 <sup>3</sup>	1/1/15-12/31/16	\$210,000 DC \$96,600 IC	\$1,226,400.00
Ozment	AHA <sup>4</sup>	1/1/10 – 12/31/14	\$70000.00 DC \$7,000 IC	\$308,000.00
R.L. Kao	NIH Sub-Award	2/1/15 – 5/31/15	\$20,859	\$20,859
<b>Total Funding Received</b>				
<b>Total for Multi-Year Commitments</b>				

<sup>1</sup>Li, C. Role of Toll-Like Receptor Signaling in Cardiac Ischemia. NIH-R01HL071837-09A1, Total Award: \$1,460,000.

<sup>2</sup>Williams, DL. Amelioration of Sepsis in Macrophage Activation.

<sup>3</sup>Li & Williams, Co-PIs. Innate Immunity and Cardiovascular

<sup>4</sup>Ozment, TR. American Heart Association Grant.

<sup>7</sup>Subaward for HL-089405 – Histone Deacetylase Inhibition

**Other Sponsored Activities – Current (Chair of Carroll Long, RDC, etc.)**

<b>Faculty</b>	<b>Agency</b>	<b>Project Period</b>	<b>Current Year Award</b>	<b>Total Award</b>
Williams	Corixa d.b.a.GSK Contract (NIH Subaward)	10/1/14 – 9/30/18	\$1,434,578.00	\$3,674,406.00
Williams	Neumann Contract <sup>5</sup> (NIH Subaward)	5/15/15 – 4/30/17	\$47,126.00	\$94,252.00
<b>Total Funding Received</b>				
<b>Total for Multi-Year Commitments</b>				

**VII PENDING EXTRAMURAL APPLICATIONS**

(Means proposed but unfunded.)

<b>Faculty</b>	<b>Agency</b>	<b>Project Period</b>	<b>Current Year Award</b>	<b>Total Award</b>
Xiaohui Wang	AHA pre-doctoral fellowship	6/1/15 – 5/31/17	\$26,000	\$52,000
Kao, R.L.	AHA <sup>6</sup>	7/1/15 – 6/30/17	\$82,500	\$165,000
Williams, DL	NIH <sup>7</sup>	7/1/15 – 6/30/16	\$89,524.53	\$89,524.53
Li, Chuanfu	NIH <sup>8</sup>	7/1/15 – 6/30/16	\$89,524.52	\$89,524.52
Williams, DL	RDC	3/7/15 – 3/7/16	\$50,000	\$50,000
Ozment, T	NIH R15	9/1/15 – 8/31/18	\$427,840.00	\$427,840.00

<b>Total Funding Received</b>
<b>Total for Multi-Year Commitments</b>

<sup>5</sup>Consortium with A. Neumann, Univ. of New Mexico

<sup>6</sup>MicroRNA in Myocardial Ischemia/Reperfusion Injury

<sup>7</sup>NIH Equipment Supplement Grant

<sup>8</sup>NIH Equipment Supplement Grant