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**Post-Doctoral Fellow, Division of Clinical Pharmacology, Department of Medicine,
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and

**Assistant Professor at the Department of Pharmacology & Toxicology
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EDUCATION

B.Sc. of Pharmacy (B.Pharm.), 2000

Faculty of Pharmacy, Mansoura University, Mansoura, Egypt

M.Sc. in Pharmacology & Toxicology, 2004

Faculty of Pharmacy, Mansoura University, Mansoura, Egypt

Ph.D. in Biomedical Sciences (December, 10th 2010):

Department of Pharmacology and Toxicology,
Georgia Regents University, GA, USA

LICENSES

Registered Pharmacist (Egypt), **2000-Present.**

ACADEMIC RESEARCH EXPERIENCE

Master Science Research, Mentor: Shehta A. Said, Ph.D. and Nariman Gameil, Ph.D, 2001-2004

Mansoura University, Faculty of Pharmacy, Department of Pharmacology and Toxicology.

Vascular dysfunction in diabetes: I investigated the role of glycated hemoglobin and advanced glycation end-products in STZ-induced type I diabetes.

Doctoral Research, Mentor: David M. Pollock Ph.D., 2006-2010

Georgia Regents University, Department of Pharmacology and Toxicology
Augusta, Georgia, USA.

1- Investigating the role of ET-1 in chronic kidney diseases as diabetic nephropathy.

2- Investigating the role of ET-1 and its receptors (ET_A and ET_B) in glomerular inflammation and permeability in normal and diabetic kidneys.

Post-Doctoral Research, Mentor: David M. Pollock Ph.D., 2010-2011

Renal medullary circadian clock genes in endothelin B deficient rats.

Post-Doctoral Research, Mentors: Meenakshi S. Madhur, M.D., Ph.D. and David G. Harrison, M.D., 7/1/2012-present

1- Investigating the link between LNK, lymphocyte adaptor protein and aortic/renal inflammation in angiotensin II-induced hypertension.

2- Characterization of Cytotoxic Tc17 Cells and Genetics of Interleukin-17 in Hypertension

WORK & RESEARCH EXPERIENCE

1- Registered Pharmacist, 2000-2001

Work in retail pharmacy, Port Said, Egypt

2- Hospital Pharmacist, 2001-2002

El-Nasr Hospital, Port Said, Egypt

3- Demonstrator of Pharmacology and Toxicology, 2000-2004

Mansoura University, Mansoura, Egypt

4- Instructor of Pharmacology and Toxicology, 2004-2006

Mansoura University, Mansoura, Egypt

5- Ph.D. Graduate Student, 2006-2010

Department of Pharmacology & Toxicology
Georgia Regents University, Augusta, Georgia, USA

6- Post-Doctoral Fellow, 2010-2011

Mentor: David M. Pollock, Ph.D.
Vascular Biology Centre
Georgia Regents University, Augusta, Georgia, USA

7- Assistant Professor, 2011-present

Department of Pharmacology and Toxicology
Faculty of Pharmacy, Mansoura University, Mansoura, Egypt

8- Post-Doctoral Fellow, 2012-present

Mentors: Meenakshi S. Madhur, M.D., Ph.D. and David G. Harrison, M.D.
Division of Clinical Pharmacology
Vanderbilt University Medical Center, Nashville, Tennessee, USA

RESEARCH GRANTS

1- Egyptian Government Scholarship Award (2006-2010). Egyptian Government Scholarship Award to obtain Ph.D. degree from Georgia Regents University (August 2006- August 2010), \$23,000 per year.

2- American Heart Association - Great Southeast Affiliate Pre-Doctoral Fellowship (2009-2011).

\$21,770 per year.

09PRE2050253 (Mohamed A. Saleh)

07/01/2009 – 6/30/2011

AHA South East Affiliate Pre-doctoral Fellowship

Role of ET-1 in Glomerular Inflammation and Glomerular Permeability in Normal and Diabetic Kidneys

Role: Principal Investigator.

3- American Heart Association – Great Southeast Affiliate Post-Doctoral Fellowship (2014-2016).

\$44,550 per year

14POST20420025 (Mohamed A. Saleh)

07/01/2014 – 06/30/2016

AHA South East Affiliate Post-doctoral Fellowship

Differential Roles for Interleukin 17A and F in Hypertension

Role: Principal Investigator.

SCIENTIFIC SOCIETIES

American Physiological Society (APS), 2007-present.

American Heart Association (AHA), 2007-present.

American Association for the Advancement of Science (AAAS), 2007-2009.

American Society of Pharmacology and Experimental Therapeutics (ASPET), 2008-2010

TEACHING EXPERIENCE

1- Demonstrating Pharmacology, Toxicology, Physiology, and Biostatistics (laboratory experiments) to undergraduate students at Faculty of Pharmacy, Mansoura University, Egypt (2000-2006).

2- Teaching Pharmacology course to dental undergraduate students at Faculty of Dentistry, Mansoura University, Egypt (2011 and 2012).

3- Teaching Physiology, Pharmacology, Toxicology and Forensic Chemistry and Biophysics to clinical undergraduate students at Faculty of Pharmacy, Mansoura University, Egypt – Clinical Program (2011 and 2012).

4- Teaching Receptor Theory Class (PHAR 324) to biomedical graduate students at Graduate School, Vanderbilt University, Nashville, Tennessee, USA (2015 Summer Semester).

5- Teaching Facilitating Open Communication to Understand Science class (FOCUS) to biomedical graduate students at Graduate School, Vanderbilt University, Nashville, Tennessee, USA (2015 Fall Semester).

6- In addition, during my work in Egypt, I established a new series of conferences for my pharmacy students. I took the main responsibility to organize the First Conference for Pharmacy Students (held in March 2012, Faculty of Pharmacy, Mansoura University).

THESIS/DISSERTATION MENTORSHIP:

1- Co-mentor on the PhD Dissertation for Dr. Manar Ahmed Gamal.
Title: The Effect of Green Tea Extract on Liver Fibrosis (Experimental Study)
The Department of Pharmacology and Toxicology, Faculty of Pharmacy, Mansoura University, EGYPT (2012-2015).

INVITED PRESENTATIONS

1- **Mohamed A. Saleh**, Erika I. Boesen, Jennifer S. Pollock and David M. Pollock. Chronic ET_A Receptor Blockade Attenuates Expression of Inflammatory Mediators in Diabetic Rats. Experimental Biology Meeting, San Diego, CA (2008) (Oral Presentation).

2- **Mohamed A. Saleh**, David I. Stevens, David M. Pollock, Jennifer S. Pollock. Free radical scavenging decreases endothelin-1 (ET-1) excretion and glomerular permeability during diabetes. Experimental Biology Meeting, Anaheim, CA (2011) (Oral Presentation).

3- **Mohamed A. Saleh**, David G. Harrison and Meena S. Madhur. Deficiency of Lymphocyte-Specific Adaptor Protein, LNK, Exacerbates Angiotensin II-Induced Hypertension and Inflammation. High Blood Pressure Research Council. New Orleans, LA (2013) (Oral Presentation).

4- **Mohamed A. Saleh**, William G. McMaster, Samuel A. Funt, Salim R. Thabet, Jing Wu, Liang Xiao, Allison E. Norlander, Wei Chen, Hana A. Itani, Tianxiao Huan, Daniel Levy, David G. Harrison, Meena S. Madhur. Deficiency of LNK (SH2B3) Promotes Hypertension and Renal/Vascular Inflammation. Vanderbilt University Medical Center Post-doctoral Association and Shared Resources Symposium (2014). First Place Award (Oral Presentation).

5- **Mohamed A. Saleh**, William G. McMaster, Samuel A. Funt, Salim R. Thabet, Jing Wu, Liang Xiao, Allison E. Norlander, Danielle Michell, Annet Kirabo, Wei Chen, Hana A. Itani, Tianxiao Huan, Daniel Levy, David G. Harrison, Meena S. Madhur. Deficiency of LNK (SH2B3) Promotes Hypertension and Renal/Vascular Inflammation. Fifth International Society of Hypertension (ISH) New Investigator Symposium on Hypertension and Cardiovascular Disease. San Francisco, CA (2014) (Oral Presentation).

6- **Mohamed A. Saleh**, Allison E. Norlander, David G. Harrison and Meena S. Madhur. Distinct and overlapping roles of cytokines IL-17A and IL-17F in angiotensin II-induced hypertension and end-organ injury. Council on Hypertension Scientific Sessions. Washington D.C. (2015) (Oral Presentation).

HONORS AND AWARDS

- 1- 28th Southeastern Pharmacology Society, Poster-Presentation Winner-3rd place (2007).
- 2- APS Travel Award- Experimental Biology Meeting (2008).
- 3- The Department of Pharmacology Annual Graduate Student Research Award -2nd place (2008).
- 4- Caroline Tum Suden/Frances A. Hellebrandt Professional Opportunity Award- Experimental Biology Meeting (2009).
- 5- ASPET Travel Award - Experimental Biology Meeting (2009).
- 6- The Department of Pharmacology Annual Graduate Student Research Award-3rd place (2009).
- 7- Water and Electrolyte Homeostasis (WEH) Travel Award - Experimental Biology Meeting (2010).
- 8- Water and Electrolyte Homeostasis (WEH) Oral Presentation Award - Experimental Biology Meeting (2010).
- 9- Finalist for the 2010 Renal Section Predoctoral Excellence in Renal Research Award - Experimental Biology Meeting (2010).
- 10- Award of Excellence in Research – Graduate Research Day, Georgia Regents University, Augusta, GA (2010).
- 11- O'Brien Fellowship in Indiana Center for Biological Microscopy, Indiana University-Purdue University Indianapolis, IN (2010).
- 12- Who's Who Among Students in American Universities and Colleges for 2011.
- 13- Finalist for the 2011 Renal Section Pre-doctoral Excellence in Renal Research Award - Experimental Biology Meeting (2011).
- 14- Ranked First abstract submitted to Vanderbilt University Medical Center Post-doctoral Association and Shared Resources Symposium (2014). First Place Award and Orally Presented.

SCHOOLS and TRAINING POGRAMS

- 1- Sixth Hypertension Summer School, Fort Collins, CO July 2007.
- 2- American Physiological Society (APS) Presentation Skill Training Program, Orlando, FL, January 2008.
- 3- Training on Intravital Microscopy in the Kidney: O'Brien Fellowship in Indiana Center for Biological Microscopy, Indiana University-Purdue University Indianapolis, IN October 1st, 2010-October 29th 2010.
- 4- APS Scientific Writing Training Program, Orlando, FL, January 2011.

PUBLICATIONS

1- RECENT ABSTRACTS:

- 1- **Mohamed A. Saleh**, Erika I. Boesen, Jennifer S. Pollock and David M. Pollock. Chronic ET_A receptor blockade attenuates expression of inflammatory mediators in diabetic rats. 28th Southeastern Pharmacology Society (SEPS), Augusta, GA (2007).

- 2- **Mohamed A. Saleh**, Erika I. Boesen, Jennifer S. Pollock and David M. Pollock. Evidence that endothelin (ET) directly contributes to glomerular inflammation in a rat model of type 1 diabetes. Nexus Meeting on Diabetes and Kidney, Dublin, Republic of Ireland. (2008).
- 3- **Mohamed A. Saleh**, Daisuke Nakano, Erika I. Boesen, Jennifer S. Pollock and David M. Pollock. ET-1 directly increases glomerular and systemic expression of inflammatory mediators independently of blood pressure in rats. The 62nd Council of High Blood Pressure, Atlanta, GA (2008).
- 4- **Mohamed A. Saleh**, Erika I. Boesen, Jennifer S. Pollock and David M. Pollock. Chronic ET_A Receptor Blockade Attenuates Expression of Inflammatory Mediators in Diabetic Rats. Experimental Biology Meeting, San Diego, CA (2008).
- 5- Victor Vitorino Lima, Fernanda RC Giachini, Fernando S Carneiro, Zidonia N Carneiro, **Mohamed A Saleh**, David M Pollock, R Clinton Webb and Rita C Tostes Augmented vascular reactivity induced by ET-1 is associated with increased O-GlcNAcylation. Experimental Biology Meeting, New Orleans, LA (2009).
- 6- **Mohamed A. Saleh**, Jennifer S. Pollock, Virginia J. Savin and David M. Pollock. ET_A receptor dependent increases in glomerular permeability in experimentally induced diabetic rats. Experimental Biology Meeting, New Orleans, LA (2009).
- 7- **Mohamed A. Saleh**, Jennifer S. Pollock, Virginia J. Savin and David M. Pollock. Endothelin (ET-1) increases albumin permeability of isolated rat glomeruli. Montreal, Canada (2009).
- 8- **Mohamed A. Saleh**, Jennifer S. Pollock, Virginia J. Savin and David M. Pollock. Endothelin (ET-1) induces glomerular inflammation and increases glomerular permeability to albumin via the ET_A receptor in the rat. The 63rd Council of High Blood Pressure, Chicago, IL (2009).
- 9- Ahmed A. Elmarakby, **Mohamed A. Saleh**, Mahmood S. Mozaffari, Jennifer C. Sullivan. Reno-protective mechanisms of hemeoxygenase-1 induction in diabetic spontaneously hypertensive rats. The 63rd Council of High Blood Pressure, Chicago, IL (2009).
- 10- **Mohamed A. Saleh**, David I. Stevens, David M. Pollock, Jennifer S. Pollock. Free radical scavenging decreases endothelin-1 (ET-1) excretion and glomerular permeability during diabetes. Experimental Biology Meeting, Anaheim, CA (2010).
- 11- **Mohamed A. Saleh**, Jennifer S. Pollock and David M. Pollock. Differential Effects of Endothelin A and B receptor antagonism on diabetes-induced proteinuria, glomerular permeability, and inflammation. Experimental Biology Meeting, Anaheim, CA (2010).
- 12- Ahmed A. Elmarakby, Jessica Faulkner, **Mohamed A. Saleh**, Jennifer C. Sullivan. Induction of hemeoxygenase-1 reduces glomerular injury and apoptosis in diabetic

spontaneously hypertensive rat. The 64th Council of High Blood Pressure, Washington, D.C. (2010).

13- **Mohamed A. Saleh**, Ruben M. Sandoval, George J. Rhodes, Silvia B. Campos, Bruce A. Molitoris, David M. Pollock. Increased proximal tubular uptake prevents albuminuria in chronic endothelin-1-infused rats as determined by intravital 2-photon microscopy. Experimental Biology Meeting, Washington, D.C. (2011).

14- Joshua S. Speed, **Mohamed A. Saleh** and David M. Pollock. Renal Medullary Circadian Clock Genes are Altered in Endothelin B Deficient Rats. Experimental Biology Meeting, San Diego, CA (2012).

15- **Mohamed A. Saleh**, David G. Harrison and Meena S. Meenakshi. Lymphocyte-specific adaptor protein, LNK, inhibits angiotensin II-induced hypertension and inflammation. Experimental Biology Meeting, Boston, MA (2013).

16- William G. McMaster, **Mohamed A. Saleh**, Hana A. Itani, David G. Harrison, Meena S. Madhur. Loss of lymphocyte-specific adaptor protein, LNK, aggravates endothelial dysfunction in angiotensin II-induced hypertension. Experimental Biology Meeting, San Diego, CA (2014).

17- Allison E. Norlander, **Mohamed A. Saleh**, David G. Harrison, and Meena S. Madhur. Interleukin 17A induces renal SGK1 expression in hypertension. Experimental Biology Meeting, San Diego, CA (2014).

18- **Mohamed A. Saleh**, William G. McMaster, Samuel A. Funt, Salim R. Thabet, Jing Wu, Liang Xiao, Allison E. Norlander, Danielle Michell, Annet Kirabo, Wei Chen, Hana A. Itani, Tianxiao Huan, Daniel Levy, David G. Harrison, Meena S. Madhur. Deficiency of LNK (SH2B3) Promotes Hypertension and Renal/Vascular Inflammation. High Blood Pressure Research Council. San Francisco, CA (2014).

19- Allison E. Norlander, Annet Kirabo, Juan Gnecco, Nikhil Kamat, **Mohamed A. Saleh**, Alicia McDonough, David G. Harrison and Meena S. Madhur. Interleukin 17-A regulates salt and water retention through Enhanced SGK1 and NHE3 expression in the renal proximal tubule. High Blood Pressure Research Council. San Francisco, CA (2014).

20- Jing Wu, **Mohamed A. Saleh**, Annet Kirabo, Hana Itani, Wei Chen, Meena S. Madhur and David G. Harrison. Vascular oxidative stress promotes aortic stiffening in hypertension. High Blood Pressure Research Council. San Francisco, CA (2014).

21- Liang Xiao, Annet Kirabo, Jing Wu, **Mohamed A. Saleh**, Linjue Zhu and David G. Harrison. Renal denervation prevents dendritic cell activation and renal T cell infiltration and subsequent renal damage in mice with angiotensin II-induced hypertension. High Blood Pressure Research Council. San Francisco, CA (2014).

22- Rafal Nazarewicz, **Mohamed A. Saleh**, Jing Wu, Sergey Dikalov and David Harrison. Mitochondrial hydrogen peroxide in T cell activation in hypertension. High Blood Pressure Research Council. San Francisco, CA (2014).

23- William G. McMaster, **Mohamed A. Saleh**, Annet Kirabo, Hana A. Itani, David G. Harrison, Meena S. Madhur. Deficiency of LNK/SH2B3 promotes hypertension, endothelial dysfunction, and aortic dissection. North American Vascular Biology Organization (NAVBO) Vascular Biology. Monterey, CA (2014).

24- Allison Norlander, **Mohamed A. Saleh**, David G. Harrison, Meena Madhur. Role of T cell SGK1 in the development of angiotensin II mediated hypertension. North American Vascular Biology Organization (NAVBO) Vascular Biology. Monterey, CA (2014).

25- Allison Norlander, Nikhil Kamat, Benjamin Ko, Annet Kirabo, Juan Gnecco, **Mohamed A. Saleh**, Robert Hoover, David G Harrison, Alicia McDonough, and Meena Madhur. Interleukin 17A regulates salt and water retention through modulation of renal proximal and distal tubule sodium transporters. The American Society of Hypertension (ASH). New York, NY (2015).

26- William G. McMaster, Jr., **Mohamed A. Saleh**, Hana A. Itani, Allison E. Norlander, Cornelia M. Weyand, Meena S. Madhur, Daniel J. Moore, David G. Harrison. Hypertension leads to end organ inflammation in humanized mice. The American Society of Hypertension (ASH). New York, NY (2015).

27- Hana A. Itani, Liang Xiao, Jing Wu, **Mohamed A. Saleh**, Danielle Michell, Wei Chen, Kenneth E. Bernstein, David G. Harrison. The role of immunological memory In hypertension. The American Society of Hypertension (ASH). New York, NY (2015).

28- **Mohamed A. Saleh**, Allison E. Norlander, David G. Harrison and Meena S. Madhur. Distinct and overlapping roles of cytokines IL-17A and IL-17F in angiotensin II-induced hypertension and end-organ injury. Council on Hypertension Scientific Sessions. Washington D.C. (2015).

2- BOOK CHAPTERS, EDITORIALS, and INTERNET RESOURCES:

1. **Mohamed A. Saleh** and David M. Pollock. Endothelin in Renal Inflammation and Hypertension. *Contrib. Nephrol.* 2011;172:160-70. (Epub August 30, 2011).

2. Allison E. Norlander, **Mohamed A. Saleh**, Meena S. Madhur. CXCL16: A Chemokine Causing Chronic Kidney Disease. *Hypertension* 62:1008-1010, 2013 (Epub September 23, 2013).

3- JOURNAL PUBLICATIONS:

1- Erika I. Boesen , Jennifer M. Sasser , **Mohamed A. Saleh**, William A. Potter, Mandy Woods, Timothy D. Warner, Jennifer S. Pollock , David M. Pollock. Interleukin-1beta,

but not Interleukin-6, Enhances Renal and Systemic Endothelin Production in vivo. *American Journal of Physiology-Renal Physiology* 2008 Aug; 295(2):F446-53.

2- Victor V. Lima, Fernanda R. Giachini, Fernando S. Carneiro, Zidonia N. Carneiro, **Mohamed A. Saleh**, David M. Pollock, Zuleica B. Fortes, Maria Helena C. Carvalho, Adviyee Ergul, R. Clinton Webb, Rita C. Tostes. O-GlcNAcylation Contributes to Augmented Vascular Reactivity Induced by Endothelin-1. *Hypertension* 2010 Jan;55(1):180-8.

3- **Mohamed A. Saleh**, Erika I. Boesen, Jennifer S. Pollock, Virginia J. Savin, and David M. Pollock. Endothelin-1 Increases Glomerular Permeability and Inflammation Independent of Blood Pressure in the Rat. *Hypertension* 2010 Nov;56(5):942-9.

4- **Mohamed A. Saleh**, Erika I. Boesen, Jennifer S. Pollock, Virginia J. Savin, and David M. Pollock. ET_A Receptor Specific Stimulation of Glomerular Inflammation and Injury in Streptozotocin-Induced Diabetic Rats. *Diabetologia* 2011 Apr;54(4):979-88.

5- **Mohamed A. Saleh**, Jennifer S. Pollock, and David M. Pollock. Distinct Involvement of Endothelin-A and Endothelin-B Receptors in Intervention with Incipient Diabetic Nephropathy in Streptozotocin-Induced Hyperglycemic Rats. *Journal of Pharmacology and Experimental Therapeutics* 2011 Jul;338(1):263-70.

6- **Mohamed A. Saleh**, Ruben M. Sandoval, George J. Rhodes, Silvia B. Campos-Bilderback, Bruce A. Molitoris, and David M. Pollock. Chronic Endothelin-1 Infusion Elevates Glomerular Sieving Coefficient and Proximal Tubular Albumin Reuptake in the Rat. *Life Sciences* 2012 Oct 15;91(13-14):634-7.

7- Ahmed A. Elmarakby, Jessica Faulkner, **Mohamed A. Saleh**, and Jennifer C. Sullivan. Induction of Hemoxygenase-1 Reduces Glomerular Injury and Apoptosis in Diabetic Spontaneously Hypertensive Rats. *American Journal of Physiology-Renal Physiology* 2012 Apr 1;302(7):F791-800.

8- Jing Wu, Salim R. Thabet, Annet Kirabo, Danniell W Trott, **Mohamed A. Saleh**, Liang Xiao, Meena S. Madhur, Wei Chen and David Harrison. Inflammation and Mechanical Stretch Promote Aortic Stiffening in Hypertension through Activation of p38 MAP Kinase. *Circulation Research* 2014 Feb;114(4):616-25

9- Daniel W. Trott, Salim R. Thabet, Annet Kirabo, **Mohamed A. Saleh**, Hana Itani, Allison E. Norlander, Jing Wu, Anna Goldstein, William J Arendshorst, Meenakshi S Madhur, Wei Chen, Chung-I Li, Yu Shyr, David G. Harrison. Oligoclonal CD8⁺ T Cells Play a Critical Role in the Development of Hypertension. *Hypertension* 2014 Nov;64(5):1108-15.

10- Mohammed Soutto, Zheng Chen, **Mohamed A. Saleh**, Ahmed Katsha, Shoumin Zhu, Alexander Zaika, Abbes Belkhirri and Wael El-Rifai. TFF1 activates p53 through down-regulation of miR-504 in gastric cancer. *Oncotarget* 2014 Jul 30;5 (14):5663-5673.

11- Annet Kirabo, Ana Faria, Roxana Loperena, Cristi Galindo, Jing Wu, Alfiya Bikineyeva, Sergey Dikalov, Liang Xiao, Wei Chen, **Mohamed A. Saleh**, Antony Vinh, Hana Itani, Venkataraman Amarnath, Daniel Trott, Kalyani Amarnath, Tomasz Guzik, Kenneth E. Bernstein, Xiao Shen, Sean Davies, Yu Shyr, Sheau-chiann Chen, Cheryl Laffer, Raymond Mernaugh, Fernando Elijovich, Heitor Moreno, Meena Madhur, L. Jackson Roberts II, David G. Harrison. Isoketal-Modified Proteins in Dendritic Cells Activate T Cells and Promote Hypertension. *The Journal of Clinical Investigation* 2014 Oct;124(10):4642-56

12- Nikhil V. Kamat, Salim R. Thabet, Liang Xiao, **Mohamed A. Saleh**, Annet Kirabo, Meena S. Madhur, Eric Delpire, David G. Harrison, Alicia A. McDonough. Renal Transporter Activation during Angiotensin-II Hypertension is Blunted in Interferon- $\gamma^{-/-}$ and Interleukin-17A $^{-/-}$ Mice. *Hypertension* 2015 Mar;65(3):569-76.

13- **Mohamed A. Saleh**, William G. McMaster, Samuel A. Funt, Salim R. Thabet, Jing Wu, Liang Xiao, Allison E. Norlander, Danielle Michell, Annet Kirabo, Wei Chen, Hana A. Itani, Tianxiao Huan, Daniel Levy, David G. Harrison, Meena S. Madhur. Deficiency of LNK (SH2B3) Promotes Hypertension and Renal/Vascular Inflammation. *The Journal of Clinical Investigation* 2015 Mar 2;125(3):1189-202.

14- Tianxiao Huan, Qingying Meng, **Mohamed A. Saleh**, Allison E. Norlander, Roby Joehanes, Jun Zhu, Brian H. Chen, Bin Zhang, Andrew D. Johnson, Saixia Ying, Paul Courchesne, Nalini Raghavachari, Richard Wang, Poching Liu, The International Consortium for Blood Pressure GWAS (ICBP), Christopher J. O'Donnell, Ramachandran Vasan, Peter J. Munson, Meena S. Madhur, David G. Harrison, Xia Yang, and Daniel Levy. Integrative Network Analysis Reveals Molecular Mechanisms of Blood Pressure Regulation. *Molecular Systems Biology* 2015 Apr 16;11:799.

15- Liang Xiao, Annet Kirabo, Jing Wu, **Mohamed A Saleh**, Linjue Zhu, Feng Wang, Takamune Takahashi, Roxana Loperena, Jason D Foss, Raymond L Mernaugh, Wei Chen, Jackson Roberts, John W Osborn, Hana A Itani, David G Harrison. Renal Denervation Prevents Immune Cell Activation and Renal Inflammation in Angiotensin II-Induced Hypertension. *Circulation Research*. Published online before print July 8, 2015, doi: 10.1161/CIRCRESAHA.115.306010.

16- Jing Wu, **Mohamed A. Saleh**, Annet Kirabo, Hana Itani, Liang Xiao, Wei Chen, Raymond Mernaugh, Hua Cai, Kenneth E. Bernstein, Jörg J. Goronzy, Cornelia M. Weyand, Sean Davies, L. Jackson Roberts II, Meena Madhur, David G. Harrison. Chronic vascular oxidative stress promotes immune activation, aortic stiffening and age-related hypertension. *The Journal of Clinical Investigation* (accepted October 2015/inpress).

17- Jing Wu, Kim Montaniel, **Mohamed A Saleh**, Liang Xiao, Wei Chen, Gary Owens, Jay Humphrey, Mark Majesky, Antonis Hatzopoulos, Meena S Madhur, and David G.

Harrison. The Origin of Matrix-Producing Cells that Contribute to Aortic Fibrosis in Hypertension. *Hypertension* (accepted October 2015/in-press).

18- Daniel S. Perrien, **Mohamed A. Saleh**, Keiko Takahashi, Meena S. Madhur, David G. Harrison, Raymond C. Harris, and Takamune Takahashi. Novel Methods for microCT-Based Analyses of Vasculature in the Renal Cortex Reveal a Loss of Arterioles and Perfusible Glomeruli in eNOS^{-/-} Mice. *BMC Nephrology* (accepted November 2015/in-press).

19- Joshua S. Speed, Jonathan B. Heimlich, **Mohamed A. Saleh**, Kelly A. Hyndman, Jennifer S. Pollock, David M. Pollock. Novel Role of Renal Endothelin-1 in Circadian Blood Pressure Variation. *American Journal of Physiology-Renal Physiology* (submitted/in-review).

20- William G. McMaster, **Mohamed A. Saleh**, Hana A. Itani, Rafal Nazarewicz, Allison E. Norlander, Rachel Bonami, Andrew Marshall, Greg Poffenberger, Cornelia Weyand, Meena S. Madhur, Daniel Moore and David G. Harrison. Activation of human T cells in angiotensin II-induced hypertension: Studies of humanized mice. *Hypertension* (submitted/in-review).

21- Hana A. Itani, Liang Xiao, **Mohamed A. Saleh**, Jing Wu, Mark A. Pilkinton, Bethany L. Dale, Nataliya R. Barbaro, Jason D. Foss, Annet Kirabo, Kim R. Montaniel, Wei Chen, Ryosuke Sato, L. Gabriel Navar, Fernando Eljovich, Cheryl L. Laffer, Simon A. Mallal, Kenneth E. Bernstein and David G. Harrison. The Role of Immunological Memory in Hypertension. *The Journal of Clinical Investigation* (submitted/in-review).

22- Allison E. Norlander, **Mohamed A. Saleh**, Nikhil V. Kamat, Benjamin Ko, Juan Gnecco, Linjue Zhu, Bethany Dale, Yoichiro Iwakura, Robert S. Hoover, Alicia McDonough, Meena S. Madhur. Interleukin-17A Promotes Hypertension through the Induction of Proximal and Distal Renal Sodium Transporters via an SGK1 Dependent Pathway. *Hypertension* (submitted).

23- **Mohamed A. Saleh**, Allison E. Norlander, David G. Harrison and Meena S. Madhur. Distinct and overlapping roles of cytokines IL-17A and IL-17F in angiotensin II-induced hypertension and end-organ injury. *Hypertension* (In-preparation).

REFERENCES

1- Meenakshi S. Madhur, M.D., Ph.D. (my current post-doctoral mentor)

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Vanderbilt University

Department of Medicine, Division of Clinical Pharmacology.

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2- David G. Harrison, M.D. (my current post-doctoral co-mentor)

Betty and Jack Bailey Professor of Medicine and Pharmacology

Vanderbilt University

Director, Division of Clinical Pharmacology

Director of the Center for Vascular Biology

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Nashville, Tennessee 37215

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Email: david.g.harrison@vanderbilt.edu

3- David M. Pollock, Ph.D. (Regents' Professor) (my doctoral mentor)

President, American Physiological Society

Director, Cardio-Renal Physiology and Medicine

Division of Nephrology

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dpollock@uab.edu

4- Jennifer S. Pollock, Ph.D (Professor of Biochemistry) (my doctoral co-mentor).

Co-Director, Cardio-Renal Physiology and Medicine

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