

# **Mohamed A. Saleh, B.Pharm., M.Sc., Ph.D.**

Associate Professor of Pharmacology & Toxicology

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## **1) EDUCATION**

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

Faculty of Pharmacy, Mansoura University, Mansoura, Egypt

M.Sc. in Pharmacology & Toxicology, 2004

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

Ph.D. in Biomedical Sciences (December, 10<sup>th</sup> 2010):

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

## **2) LICENSES**

Registered Pharmacist (Egypt), 2000-Present.

## **3) ACADEMIC RESEARCH EXPERIENCE**

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

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

Department of Pharmacology and Toxicology, Augusta University, 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<sub>A</sub> and ET<sub>B</sub>) in glomerular  
inflammation and permeability in normal and diabetic kidneys.

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

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

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., 2012-2016**

Division of Clinical Pharmacology, Vanderbilt University Medical Center, Nashville, Tennessee, USA

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

**4) 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

Department of Pharmacology & Toxicology, Mansoura University, Mansoura, Egypt

4- Instructor of Pharmacology and Toxicology, 2004-2006

Department of Pharmacology & Toxicology, Mansoura University, Mansoura, Egypt

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

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

6- Post-Doctoral Fellow, 2010-2011

Mentor: David M. Pollock, Ph.D.

Vascular Biology Centre, Augusta University, Augusta, Georgia, USA

7- Assistant Professor, 2011-2016

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

8- Post-Doctoral Fellow, 2012-2016

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

9- Associate Professor, 26<sup>th</sup> September 2016 – Current.

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

10- Associate Professor, 22<sup>nd</sup> August 2018 – 20<sup>th</sup> August 2019.

Department of Pharmacology and Toxicology, College of Pharmacy, Imam Abulrahman Bin Faisal University, Dammam, Kingdom of Saudi Arabia.

11- Associate Professor, 21<sup>st</sup> August 2019 – Current.

Department of Clinical Sciences, College of Medicine, University of Sharjah, Sharjah, United Arab Emirates.

## **5) RESEARCH GRANTS**

1- Egyptian Government Scholarship Award (2006-2010). Egyptian Government Scholarship Award to obtain Ph.D. degree from Augusta 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.*

## **6) SCIENTIFIC SOCIETES**

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

## **7) 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 (Summer 2015).

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

6- Teaching Physiology, Clinical Physiology, Therapeutics and Pharmacology for undergraduate students at Faculty of Pharmacy, Mansoura University, Mansoura, Egypt (Fall 2016).

7- Teaching Advanced Pharmacotherapy-II for PharmD students at Faculty of Pharmacy, Mansoura University, Egypt (Fall and Spring 2016/2017 and 2017/2018).

8- Teaching Biophysics course for undergraduate students, Faculty of Pharmacy, Horus University of Egypt, New Damietta, Egypt (Fall 2016, 2017, 2018).

9- Teaching Therapeutics III course in Fall 2018 (GIT and infectious diseases) and Therapeutics IV course Spring 2019 (Cancer, Pediatric and Geriatrics diseases) for the senior PharmD students (College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University, Dammam, Kingdom of Saudi Arabia).

**- In addition, 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).**

**- In the last two years, I organized both the Fifth and Sixth Conference for Pharmacy Students (November 2016 and April 2018) in addition to heading the scientific board**

in the First International Conference of Pharmaceutical Sciences – Faculty of Pharmacy, Mansoura University (April 2017).

- I established the Journal Club as an extracurricular course for Pharmacy Undergraduate Students both in Mansoura University and Imam Abdulrahman Bin Faisal University.

### **8) 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).

### **9) INVITED PRESENTATIONS**

1- **Mohamed A. Saleh**, Erika I. Boesen, Jennifer S. Pollock and David M. Pollock. Chronic ET<sub>A</sub> 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).

7- **Interviewing (finalist) for a tenure-track faculty positions** in the following universities:

a) Department of Pharmacology and Toxicology, Max Rady College of Medicine, Manitoba University, Winnipeg, Manitoba, Canada.

b) Department of Pharmacology and Toxicology, Brody School of Medicine, Greenville, East Carolina University, North Carolina, USA.

c) Department of Physiology, Augusta University, Augusta, Georgia, USA.

d) Department of Pharmacology, College of Medicine, University of Sharjah, Sharjah, UAE.

## **10) HONORS AND AWARDS**

1- 28<sup>th</sup> Southeastern Pharmacology Society, Poster-Presentation Winner-3<sup>rd</sup> place (2007).

2- APS Travel Award- Experimental Biology Meeting (2008).

3- The Department of Pharmacology Annual Graduate Student Research Award -2<sup>nd</sup> 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-3<sup>rd</sup> 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 Pre-Doctoral 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.

15- Mansoura University Award for Scientific Publications (2012, 2013, 2014, 2015).

16- Mansoura University Award for High Impact Factor Research (2015).

17- Mansoura University Award for Scientific Innovation (2016).

## **11) SCHOOLS and TRAINING PROGRAMS**

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 1<sup>st</sup>, 2010-October 29<sup>th</sup> 2010.

4- APS Scientific Writing Training Program, Orlando, FL, January 2011.

5- Faculty Administration (2012), Decision Making (2012) and Time Management (2016) Workshops at Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

## **12) PUBLICATIONS**

### **1) ABSTRACTS:**

1- **Mohamed A. Saleh**, Erika I. Boesen, Jennifer S. Pollock and David M. Pollock. Chronic ET<sub>A</sub> receptor blockade attenuates expression of inflammatory mediators in diabetic rats. 28<sup>th</sup> 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 62<sup>nd</sup> Council of High Blood Pressure, Atlanta, GA (2008).

- 4- **Mohamed A. Saleh**, Erika I. Boesen, Jennifer S. Pollock and David M. Pollock. Chronic ET<sub>A</sub> Receptor Blockade Attenuates Expression of Inflammatory Mediators in Diabetic Rats. Experimental Biology Meeting, San Diego, CA (2008).
- 5- Victor Vitorino Lima, Fernanda R.C. 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<sub>A</sub> 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<sub>A</sub> receptor in the rat. The 63<sup>rd</sup> 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 63<sup>rd</sup> 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 64<sup>th</sup> 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).

## **II- BOOK CHAPTERS, EDITORIALS, and INTERNET RESOURCES:**

1. **Mohamed A. Saleh** and David M. Pollock. Endothelin in Renal Inflammation and Hypertension. *Contributions to Nephrology*. 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).

## **III- 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):F446-453.
- 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, Adviye Ergul, R. Clinton Webb, Rita C. Tostes. O-GlcNAcylation Contributes to Augmented Vascular Reactivity Induced by Endothelin-1. *Hypertension* 2010 Jan;55(1):180-188.
- 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):942-949.
- 4- **Mohamed A. Saleh**, Erika I. Boesen, Jennifer S. Pollock, Virginia J. Savin, and David M. Pollock. ET<sub>A</sub> Receptor Specific Stimulation of Glomerular Inflammation and Injury in Streptozotocin-Induced Diabetic Rats. *Diabetologia* 2011 Apr;54(4):979-988.
- 5- **Mohamed A. Saleh**, Jennifer S. Pollock, and David M. Pollock. Distinct Actions of Endothelin A-Selective Versus Combined Endothelin A/B Receptor Antagonists in Early Diabetic Kidney Disease. *Journal of Pharmacology and Experimental Therapeutics* 2011 Jul;338(1):263-270.
- 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):634-637.

7- Ahmed A. Elmarakby, Jessica Faulkner, **Mohamed A. Saleh**, and Jennifer C. Sullivan. Induction of Hemeoxygenase-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):616-625

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<sup>+</sup> T Cells Play a Critical Role in the Development of Hypertension. *Hypertension* 2014 Nov;64(5):1108-1115.

10- Mohammed Soutto, Zheng Chen, **Mohamed A. Saleh**, Ahmed Katsha, Shoumin Zhu, Alexander Zaika, Abbes Belkhiri 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. DC isoketal-modified proteins activate T cells and promote hypertension. *The Journal of Clinical Investigation* 2014 Oct;124(10):4642-4656.

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- $\gamma$ <sup>-/-</sup> and Interleukin-17A<sup>-/-</sup> Mice. *Hypertension* 2015 Mar;65(3):569-576.

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. Lymphocyte adaptor protein LNK deficiency exacerbates hypertension and end-organ inflammation. *The Journal of Clinical Investigation* 2015 Mar 2;125(3):1189-1202.

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* 2015 Aug 28;117(6):547-557.

16- 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* 2016 Feb;67(2):461-8.

17- 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 Perfusable Glomeruli in eNOS<sup>-/-</sup> Mice. *BMC Nephrology* 2016 Mar 2;17(1):24.

18- 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. Immune activation caused by vascular oxidation promotes fibrosis and hypertension. *The Journal of Clinical Investigation* 2016 Jan;126(1):50-67.

19- Hana A. Itani, Liang Xiao, Mohamed A. Saleh, Jing Wu, Mark A. Pilkinton, Bethany L. Dale, Natalia R. Barbaro, Jason D. Foss, Annet Kirabo, Kim R. Montaniel, Allison E. Norlander, Wei Chen, Ryosuke Sato, L. Gabriel Navar, Simon A. Mallal, Meena S. Madhur, Kenneth E. Bernstein, and David G. Harrison. CD70 Exacerbates Blood Pressure Elevation and Renal Damage in Response to Repeated Hypertensive Stimuli. *Circulation Research* 2016 Apr 15; 118(8): 1233–1243.

20- 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 Regulates Renal Sodium Transporters and Renal Injury in Angiotensin II–Induced Hypertension. *Hypertension*. 2016 Jul ;68:167-174.

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