

CURRICULUM VITAE

Alphonso K. Keaton, Ph.D.

PERSONAL:

EDUCATION:

Undergraduate: Fisk University
Nashville, TN.
B.A. (Biology) May 1988

Graduate: Fisk University
Nashville, TN.
M.A. (Biology) May 1990

Meharry Medical College
Nashville, TN.
Ph.D.(Physiology) May 1995

Post-Doctoral Training: University of Alabama at Birmingham
Vascular Biology and Hypertension Training Program (5/1995-5/1998)

Assistant Professor: Department of Biology, Prairie View A&M University (8/1998 – 5/2004)

Associate Professor: Department of Biology, Prairie View A&M University (6/2004-Present)

HONORS AND AWARDS:

Graduate: MBRS (Minority Biomedical Research Support) Recipient, May 1988-90. Fisk University.

Graduate : First Place (Poster Presentation) Fourth National Conference on Health Care for the Poor and Undeserved Alcohol and other Drug Abuse: Changing Lives Through Research and Treatment 1991. Meharry Medical College, Nashville, TN.

Graduate: Deans Award for Scientific Research 1991. Meharry Medical College, Nashville, TN.

Graduate: Neuroscience Travel Fellowship to Attend 21st Annual Meeting of the Society for Neuroscience, 1991. New Orleans, LA.

Graduate: Second Place (Poster Presentation) Student Research Day for Graduate Research 1992. Meharry Medical College, Nashville, TN.

Graduate: Elected Student Judge: Graduate Student Research Day 1993. Meharry Medical College, Nashville, TN.

Graduate: Second Place (Poster Presentation) Student Research Day for Graduate Research 1994. Meharry Medical College, Nashville, TN.

Graduate: GAANN (Department of Education-Gaining Access to Academic Careers in Areas of National Need) Fellowship Recipient 1994-95.

Graduate: American Physiological Society (NIDDK) Travel Fellowship to attend the Annual Meeting of the Federation of American Societies for Experimental Biology 1994. Anaheim CA.

Postdoctoral: Associate Fellow for the Council of High Blood Pressure (American Heart Association).

BIBLIOGRAPHY:

THESIS

1. Purification and Characterization of Fructose 1,6-diphosphate from Nocardia Asteroides. M.S. Thesis, Fisk University, May 1990.
Preceptor: M. Guna, Ph.D.
2. Effects of Experimental Hypertension on Copulatory Behavior in the Male Rat (Ph.D. Dissertation). Preceptor: John T. Clark, Ph.D., Meharry Medical College May 1995.

SCIENTIFIC PUBLICATIONS:

1. Clark, J.T., Micevych, P.E., Panossian, V., and **Keaton, A.K.**: Post-castration interval and the induction of sexual behavior by testosterone in male rats. *Neuroscience and Biobehavioral Reviews*, vol. 19, No. 3, pp 369-376,1995..
2. Floyd, E.A., **Keaton, A.K.**, Clark, J.T., and Rucker, H.K. Chronic alcohol ingestion alters parameters of mid-latency evoked potentials in male rats. *Alcohol*, vol.12(1):pp. 15-22 1995.
3. **Keaton, A.K.** and Clark, J.T. Effects of Angiotensin II on sexual function, blood pressure, and fluid intake are differentially affected by AT-1 receptor blockade. ***Physiology and Behavior*, Vol. 64, No. 3, pp. 339-346, 1998.**
4. **Keaton, A.K.**, White, C.R., Berecek, K.H. Captorpiil Treatment and its Withdrawal Prevents Impairment of Endothelium Dependent Responses in the Spontaneously Hypertensive Rat . ***Clinical and Experimental Hypertension*, Vol. 20 (8), 847-866, 1998.**
5. Clark, J.T., **Keaton, A.K.**, Sahu, A., Karla, S.P.,Mahajan, S.C. Neuropeptide Y (NPY) Levels in Alcoholic and Food Restricted Male Rats: Implications for Site Selective Function. ***Regulatory Peptides*, Vol. 72(2), 1998,**
6. Keen, KJ., Douglas, J., Amoah, A., Mugerwa, R.,Onwuzulike, K., Wright, JT., **Keaton, A.**,Rahman, M., Nkemere, N., Iyenger, S., and Osei, K. Comparison of Blood Pressure and Body Mass Distribution Among American, Ghanaians and Ugandians (**Submitted to Hypertension, October, 2002.**)

ABSTRACTS and PRESENTATION

1. **Keaton, A.K.** and Clark, J.T.: Effects of benextramine and phenoxybenzamine on copulatory behavior of male rats. Fifth Annual Symposium on Career Opportunities in Biomedical and Public Health Sciences, in Association with the Annual Meeting of the Association of Minority Health Professional Schools, New Orleans, LA, March 1991.
2. **Keaton, A.K.**, Mahajan, S.C. and Clark, J.T.: Effects of a chronic ethanol diet on sexual behavior of male rats. The fourth National Conference on Health Care for the Poor and Underserved- Alcohol and other Drug Abuse: Changing Lives through Research and Treatment. Nashville, TN, October 1991.
3. **Keaton, A.K.**, Mahajan, S.C. and Clark, J.T.: Effects of a chronic ethanol diet on copulatory behavior of male rats. NIGMS Minority Programs Symposium, Washington, D.C., November 1991.
4. Clark, J.T. and **Keaton, A.K.**: Effects of benextramine, a putative NPY receptor antagonist on sexual behavior in male and female rats. Twenty-first Annual Meeting of The Society for Neuroscience, New Orleans, LA, November 1991.
5. **Keaton, A.K.**, Mahajan, S.C. and Clark, J.T.: Streptozotocin or chronic alcohol intake induce hypertension but not copulatory failure in male rats. Sixth Annual symposium on Career Opportunities in Biomedical and Public Health Sciences in Association with The Annual Meeting of The of Minority Health Professional Schools Orlando, FL, March 1992.
6. Clark, J.T., Micevych, P.E., Tanossian, V., and **Keaton, A.K.**: Testosterone-induced copulatory behavior is influenced by the post-castration interval. The Second Annual International Behavioral Neuroscience Society Conference, Clearwater, FL, April 1993.
7. **Keaton, A.K.**, and Clark, J.T.: Deoxycorticosterone: Effects on blood pressure and sexual function. The FASEB Journal vol. 8 (4) pg. A76 Abstract no. 438. April 1994.
8. **Keaton, A.K.** and Clark, J.T : Effects of long-term treatment of SHR's with enalapril or L-158,809 on copulatory behavior and blood pressure regulation. Twenty-Forth Annual Meeting of The Society for Neuroscience, Anaheim, CA.
9. **Keaton, A.K** and Clark, J.T: Angiotensin II (ANG II) induces hypertension and sexual dysfunction. The FASEB Journal vol. 9 (3) pg. A 50 Abstract no. 292. April 1995.
10. **Keaton, A.K**, C.R. White and K. H. Berecek: Effects of long-term captopril treatment on endothelium-dependent relaxation in the Spontaneously Hypertensive Rat

- (SHR). The FASEB Journal vol. 10 (3) pg. A11 Abstract no. 60. April 1996.
11. Clark, J.T., **Keaton, A.K.**, Mahajan, S.C., Epperson, P.D., and Grunger, J.N: Within Strain differences in sexual function in male rats with streptozotocin-induced diabetes. The FASEB Journal vol 10 (3) pg. A205 Abstract no. 1181. April 1996.
 12. **Keaton, A.K.**, White C.R. and K. H. Berecek : The Effects of Chronic Captopril Treatment and its Withdrawal on Endothelial Function in the SHR. Eleventh Annual International Interdisciplinary Conference on Hypertension in Blacks. July 1996 New Orleans, LA.
 13. **Keaton, A.K.** and Berecek K.H: Life-Long Ingestion of an 8% NaCl diet in Spontaneous Hypertensive rats Produces Impairment in Endothelium-Dependent Relaxation Which is reversed by L-arginine. **Hypertension vol. 28 (3) pg. 551 Abstract no. P 167. September 1996.**
 14. **Keaton, A.K.**, L. Allen and Berecek, K.H. The effects of Angiotensin Converting enzyme inhibition (ACE-I) and its withdrawal on cardiovascular structure in the spontaneously hypertensive rat . Experimental Biology 1998).
 15. **Keaton, A.K.** Possible Mechanism(s) Associated with the Long-Term Blood Pressure Lowering Effects of Captopril in SHR. **Beta Beta Beta Induction Ceremony (Sigma Chi Chapter, Prairie View A&M University), October 20, 1998.**
 - 16.) **Keaton, A.K.** The Effects of Prolonged Angiotensin Converting Enzyme Inhibitors on Endothelium Function in the Spontaneously Hypertensive Rat. **Prairie View A&M University, Biology Department, Seminar. April 16, 2001.**
 - 17.) Keen, KJ., Wright, JT., **Keaton, A.K.**, Rahmon, M., Kemere, N., Iyengar, S., Mugerwa, R. and Douglas, J. Blood Pressure and Body Mass Among Africans in Ghana, Uganda and the United States, with Comparisons to Cameroon, Senegal, South Africa and Tanzania. **International Society of Hypertension in Blacks, Annual Conference Meeting, Las Vegas, Nevada, June, 2001**

- 18.) Keen, KJ., Douglas, J., Amoah, A., Mugerwa, R., Onwuzulike, K., Wright, JT., **Keaton, A.**, Rahman, M., Nkemere, N., Iyenger, S., and Osei, K. Comparison of Blood Pressure and Body Mass Distribution Among American, Ghanaians and Ugandians . **56th Annual Fall Conference and scientific session of the Council on High Blood Pressure Research in association with the Council on the Kidney in Cardiovascular Disease, American Heart Association, Orlando, FL, September 25, 2002.**
- 19.) Keaton, AK and White, CR. A synthetic Apo-I-Mimetic Peptide Improves Endothelial function Lipopolysaccharide Treated Mice. Experimental Biology Meeting, San Diego, CA April, 2005.
- 20.) Madrigal, Susana and Keaton, AK. Mechanisms Involved in the Sustained Antihypertensive Effects of ACE inhibitors. Louis Stokes Alliances for Minority Participation Meeting. Texas A&M University, February, 2010.

TEACHING EXPERIENCE :
(Prior to joining Faculty at Prairie View A&M University)

1992-1994

Mentor, Biomedical Summer Research Program Meharry Medical College.

1993-1995:

Student Teacher: Lectures in Endocrine Physiology to both 1st year Graduate and Medical Students (Meharry Medical College).

Summer-1996 1997

Mentor, Comprehensive Minority Faculty Student Development Summer Research Program (Uni. of Alabama at Birmingham).

Fall-1997:

Formal lectures in Circulatory Physiology (10 hours) to students in the Surgical Assistance Program (Uni. of Alabama at Birmingham). Responsibilities included; lecturing, material organization, and writing examination questions.

MEMBERSHIPS/HONORS:

- 1.) **International Society of Hypertension in Blacks Incorporated . 1996-**

Present.

- 2.) **Associate Fellow, High Blood Pressure Council, American Heart Association. 1997-present.**
- 3) **Beta Beta Beta Biological Honor Society (Sigma Chi Chapter)**
- 4) **Inducted into the Who's Who Among America's Teachers, 7th , 8th and 9th Edition 2002 - 2005.**
- 5) **Outstanding Teaching Award, College of Arts and Sciences, 2007**
- 6) **Texas A&M University System Chancellor's Award: Teaching Excellence Award, Fall 2008.**
- 7) **Texas A&M University System Chancellor's Award: Teaching Excellence Award, Spring 2009.**

Other Related Professional Experiences:

Field Director: Uganda Cardiovascular Risk Project (Kampala, Uganda). Collaborative study with Dr .Janice Douglas (School of Medicine, Case Western Reserve Uni.). The Project Examined the Prevalence of Hypertension in Adult Ugandans. Over 500 Patients Participated in the Study (May 19 - August 5, 1999)

Vascular Biology Training Program. Living Systems Instrumentations, Burlington, Vermont. June 2003.

Research Support:

1. National Heart Lung Blood Institute (National Institutes of Health), Minority Individual in Postdoctoral Training Supplemental Award (RO1 HL31515-1381) Brain Angiotensin II in Hypertension. 09/01/97-05/03/98. \$146,698 .
- 2.) Prairie View A&M University Mini-Grant, 1999-2000. The Effects of ACE Inhibitors on Endothelial Function in the SHR. (\$3,000).
- 3.) Prairie View A&M University Mini-Grant. **Mechanism(s) Involved in the Sustained Antihypertensive Effects of ACE Inhibitors. September 2002- December 2003 (\$7,000).**

- 4) National Heart Lung and Blood Institute (National Institutes of Health), Minority Investigator Research Supplement Award (RO1 HL67930-01) **Myeloperoxidase and Nitric Oxide Signaling in the Vasculature. May 2002 – December 2004, \$109,466.** Dr. Roger White, Mentor, Department of Medicine (Division of Cardiovascular Research, University of Alabama at Birmingham).
- 5.) Department of Biology at PVAMU was awarded \$488,023 in Title III funding (2009) to develop the “Center for Microbial and Cardiovascular Studies.

Graduate Student Committee:

Ms. Julia Monique Stone, B.S – Master Degree Awarded May -2009

Undergraduate Research Students:

Adenuga Gbadebo, RISE
Susana Madrigal, LSAMP