

CURRICULUM VITAE

PERSONAL INFORMATION:

Name: Haidong ZHU
Birth Place: China
Email: hzhu@mcg.edu

EDUCATION:

PhD in Molecular Biology, 01/09/1994-01/07/1997, Peking Union Medical College, Chinese Academy of Medical Sciences, Beijing, China
MSc in Biochemistry, 01/09/1986-30/07/1989, Jinzhou Medical College, China
MD Medical Degree, 01/09/1981-30/07/1986, China Medical University, Shenyang, China

ACADEMIC APPOINTMENTS:

10/7/2002-present: Research Scientist in Molecular Genetics,
Georgia Prevention Institute and Institute of Molecular Medicine and Genetics, Medical College of Georgia, Augusta, GA 30912-3715

9/1/1999-9/30/2002: Research Fellow, Blood Pressure Unit, St. George's Hospital Medical School, London, UK

9/18/1997-8/30/1999: Post-Doctoral Research Fellow
Blood Pressure Unit, St. George's Hospital Medical School, London, UK

10/1991-8/1994: Lecturer in Biochemistry
Department of Biochemistry, Jinzhou Medical College, China

9/1989-8/1990: Research Fellow
Department of Biochemistry, Jinzhou Medical College, China

AWARDS:

July 1997 "Best PhD Student", Peking Union Medical College, Chinese Academy of Medical Sciences, Beijing, China

9/1994-8/1997 PhD Scholarship, Peking Union Medical College, Beijing, China

August 1993 “Excellent Lecturer”, Jinzhou Medical College, China

9/1986-8/1989 MSc Scholarship, Jinzhou Medical College, Liaoning, China

PROFESSIONAL SOCIETIES:

Member of British Society for Cardiovascular Research (UK)
Member of London Hypertension Society (UK)
Member of St. George’s Cardiovascular Research Group (UK)

FELLOWSHIP AWARDED:

The Hypertension Trust Research Fellowship 1999 Award, UK -Investigation of molecular variants in sodium/hydrogen exchangers in relation to hypertension in black people.
(01/09/1999-30/08/2001)

ADDITIONAL INFORMATION:

Training courses:

March 2002 Discovery proteomics seminar series 2002,
Applied Biosystems, London UK

October 2000 Sensitive mutational analysis and high-throughput sequencing, Applied Biosystems, London, UK

April 2000 New strategies and applications for real-time quantitative PCR,
Applied Biosystems, London, UK

September 1998 Presentation Skills, St. George’s Hospital Medical School, London, UK

June 1994 HLA Sub-genotyping, Beijing, China

June 1987 New Measurement of Apolipoprotein family, Nanjing, China

Laboratory Skills:

SNP genotyping, microsatellite marker linkage analysis
PCR techniques: PCR, RT-PCR, nest-PCR, allele specific-PCR and 5’ or 3’ RACE
Mutation detection: SSCP, RFLP, oligonucleotide-hybridization

DNA recombination: DNA cloning and subcloning

Auto / manual DNA sequencing

Genomic DNA and cDNA libraries constructing and screening

Hybridization techniques: Northern blot, southern blot, western blot, in situ hybridization

Gene expression: cloned gene expression in E.coli

Protein purification and electrophoresis: SDS-PAGE

Immunological technique: Western blot, ELISA

PUBLICATIONS:

Zhu HD, Sagnella GA, Dong YB, Miller MA, Onipinla A, Markandu ND and MacGregor GA. Contrasting associations between aldosterone synthase gene polymorphisms and essential hypertension in blacks and in whites. *J of Hypertension* 2003;21:87-95.

Snieder H, Dong YB, Barbeau P, Harshfield GA, Dalageogou C, **Zhu HD**, Carter N and Treiber FA. α_2 -Adrenergic receptor gene and resting hemodynamics in European and African American youth. The Georgia twin study. *Am J Hypertension* 2002;15:973-979.

Dong YB, **Zhu HD**, Baker EH, Sagnella GA, MacGregor GA, Carter ND, Wicks PD, Cook DG and Cappuccio FP. T594M and G442V polymorphisms of the sodium channel beta subunit and hypertension in a black population. *Journal of Human Hypertension* 2001; 15: 425-430.

Dong YB, **Zhu HD**, Sagnella GA, Carter ND, Cook DG and Cappuccio FP Association between the C825T polymorphism of the G protein 3-subunit gene and hypertension in blacks. *Hypertension* 1999; 34: 1193-1196.

Wang LF, **Zhu HD**, Miao YS, Cao DF, Wu YW, Zong SD and Koide SS. Molecular cloning and characterization of a novel testis-specific nucleoporin-related gene. *Arch Androl* 1999; 42(2): 71-84.

Zhu HD. Hormonal control of testis germ cell apoptosis (review). *J Reprod. Med.* 1997; 3: 11-13.

Zhu HD, Liu YZ, Gao SX and Xu GT. Changes of hypothalamic neurotransmitters in hypothyroid rats. *Chinese Journal of Endemiology* 1990; 9: 129-132.

Abstracts:

Zhu HD, Sagnella GA, Dong YB, Miller MA, Onipinla A, Markandu ND and MacGregor GA. Contrasting associations between aldosterone synthase gene polymorphisms and essential hypertension in blacks and in whites. 13th Annual Symposium of the London Hypertension Society: New Horizons in Cardiovascular Disease, May 20th, 2002, Royal College of Surgeons, Inn Field, London, UK.

Dong YB, **Zhu HD**, D'Cruz LG, Stopps K, Fenske CD, MacGregor GA, Baker EH and Carter ND. The methylation pattern of the C-terminal of the α -subunit of the epithelial sodium channel. 3rd International Symposium - The ENaC/Degenerins Gene Superfamily: From Molecules to Diseases, September 13-16, 2000, Villars-sur-Ollon, Switzerland.

Dong YB, Rizzo S, Murray JF, Ion A, **Zhu HD**, Gibson FM and Carter ND. Decreased apoptosis in Epstein-Barr virus (EBV)-immortalized lymphocytes from normotensive young males possessing the G-protein beta 3 subunit C825T variant. *The American Journal of Human Genetics* 2000; 67 (4):343.

Zhu HD, Baker EH, Dong YB, Ireson NJ, Onipinla AK, Sagnella GA, Markandu ND and MacGregor GA. Identification of two polymorphisms in 11beta hydroxysteroid dehydrogenase type 2 gene in people of African origin. The Ninth European Meeting on Hypertension Milan, 11-15th June, 1999

Zhu HD, Sagnella GA, Dong YB, Onipinla AK, Miller MA, Blackwood A, Markandu ND, Carter ND and MacGregor GA. "Aldosterone synthase gene polymorphisms and essential hypertension in people of European origin" at the meeting of St. George's Cardiovascular Research Group, 3rd Match, 1999

Dong YB, **Zhu HD**, Baker EH, Sagnella GA, Carter ND, MacGregor GA, Cook DG and Cappuccio FP. The importance of epithelial sodium channel mutations in hypertension in subjects of African origin. The Ninth European Meeting on Hypertension Milan, 11-15th June, 1999

Dong YB, **Zhu HD**, Baker EH, Sagnella GA, Onipinla AK, Persu A, Jeunemaitre X, Carter ND and MacGregor GA. Sodium channel β subunit G442V mutation in a London black hypertensive population. *Hypertension* 1998, 32: 808.

Zhu HD, Cao DF, Miao SY and Wang LF. Tissue-specific expression of BS-63 gene in human testis. The Third National Biochemistry and Molecular Biology Society Meeting, Beijing, 1996.

Dong YB, **Zhu HD** and Wang AG. Effect of vitamin E on cultured cardiac myocytes of neonatal rats with hypercholesterol serum . The Second International Symposium on Coronary Artery Disease and Hypertension. 1993, October 28-30, Beijing, China.

Zhu HD, Liu YZ and Xu GT. Regulatory effect of hypothalamic neurotransmitters in hypothyroid rats. AOTA Symposium on Iodine Deficiency Disorder, Tianjin, China, 1989.

BOOKS AND CHAPTERS:

Dong YB, **Zhu HD**, Wang Q et al. Hybridisation of nucleic acid. << *Modern Medical Experimental Method*>> 1997; Section 2, Chapter 24:p604-613.