

Hanxia Huang, M.D.

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Summary of Qualification:

- Expertise in molecular and cellular biology, genomics, and clinical samples preparation techniques
- Conduct genetic and molecular biology research on multi-gene inherited diseases such as diabetes and hypertension at the Center for Research on Genomics and Global Health, NHGRI, NIH
- Conduct research in experimental biology, generating numerous experimental data and prepare comprehensive reports of the findings, and in the compilation of the findings for publication, lab seminar and professional conferences
- Plan, direct and coordinate with various labs for successful completion of projects
- Have knowledge of various diseases and clinical protocols.
- Provide assistance with establishment and maintenance of good laboratory practice (GLP).
- Supervise junior technicians and students in the Center for Research on Genomics and Global Health, NHGRI, NIH in lab safety and various technical procedures
- Hold a professional degree in Medical Sciences.
- Conduct 10 years clinical practicing.
- Conduct 2 years clinical research.
- Analyze and synthesize data, prepare and present reports as necessary.
- Have ability to understand federal regulations and translate those regulations to guide the research work
- Proficient in most Microsoft applications and NCBI bioinformation tools
- Strong team-player committing to productive working environment

Laboratory Skills:

- *Handling, Preparation, and Processing clinical samples:* Blood samples and Tissue samples derived from participant or patients
- *Molecular Biology:* DNA/RNA extraction, DNA digestion, DNA amplification, ligation and subcloning, Northern blotting, Southern Blotting, DNA transfection, PCR/RT-PCR, Real time PCR, Genotyping (Sequenom mass array), Sequencing & pyrosequencing, microarray, ELISA
- *Cellular Biology:* Mammalian cell culture and transfection, Western blotting, flow cytometry, blood sample smearing and microscope analysis
- *Lab Documentation:* keeping daily lab work record, writing experimental procedures (SOP) and application notes, updating database for sample banks, phenotype and genotype

Clinical Skills:

- Fluent in both Chinese & English
- Excellent communication and interpersonal skills

- Hold a CPR certification issued by American Heart Association
- Physical and mental status exam skills
- Expertise in pediatrics care and neurological disease diagnosis and treatment

Computer Skills:

- Experienced in different operating systems, Windows and MacOS
- Proficient in most Microsoft applications: Word, Excel, Access and PowerPoint
- Skillful in bioinformation tools such as GeneBank, BLAST

Professional Experience:

- **Biochemist** (2008- present)
Center for Research on Genomics and Global Health, NHGRI, NIH
- **Research Associate** (2004– 2008)
National Human Genome Center at Howard University, Washington DC
- **Lab Technologist** (2006-2008)
General Clinical Research Center (GCRC), Howard University Hospital, Washington DC
- **Lab Technologist, Research Assistant** (2002– 2004)
National Human Genome Center at Howard University, Washington DC
- **Special Volunteer** (2001-2002)
Experimental Medicine Section, Oral Infection and Immunity Branch, NIDCR, NIH
- **Attending Physician** (1998-2001)
Suzhou Children's Hospital, China
- **Residency** (1991-1998)
Suzhou Children's Hospital, China

Education

- 2012 Certified by the **ECFMG (Educational Commission for Foreign Medical Graduates)**
- 2000 - 2001 Graduate Course in Medical Sciences, **Soochow University, China**
- 1985 – 1990 **M.D.**
Medicine-Pediatrics, Department of Pediatrics, **Nanjing Medical University, China**

Selected Publications

1. Ayele FT, Doumatey A, **Huang H**, Zhou J, Charles B, Erdos M, et al. Genome-wide associated loci influencing interleukin (IL)-10, IL-1Ra, and IL-6 levels in African Americans. *Immunogenetics*. 2012;64(5):351-9.
2. Charles BA, Doumatey A, **Huang H**, Zhou J, Chen G, Shriner D, et al. The roles of IL-6, IL-10, and IL-1RA in obesity and insulin resistance in African-Americans. *J Clin Endocrinol Metab*. 2011;96(12):E2018-22. PMCID: 3232609.
3. Charles BA, Shriner D, Doumatey A, Chen G, Zhou J, **Huang H**, Herbert A, Gerry NP, Christman MF, Adeyemo A, Rotimi CN. A genome-wide association study of serum uric acid in African Americans. *BMC Med Genomics*. 2011;4:17.
4. Doumatey AP, Lashley KS, **Huang H**, Zhou J, Chen G, Amoah A, Agyenim-Boateng K, Oli J, Fasanmade O, Adebamowo CA, Adeyemo AA, Rotimi CN. Relationships Among Obesity, Inflammation, and Insulin Resistance in African Americans and West Africans. *Obesity (Silver Spring)*. 2010;18(3):598-603.
5. Chen G, Shriner D, Zhou J, Doumatey A, **Huang H**, Gerry NP, Herbert A, Christman MF, Chen Y, Dunston GM, Faruque MU, Rotimi CN, Adeyemo A. Development of admixture mapping panels for African Americans from commercial high-density SNP arrays. *BMC Genomics*. 2010;11:417.
6. Shriner D, Adeyemo A, Gerry NP, Herbert A, Chen G, Doumatey A, **Huang H**, Zhou J, Christman MF, Rotimi CN. Transferability and fine-mapping of genome-wide associated loci for adult height across human populations. *PLoS One*. 2009;4(12):e8398.
7. Adeyemo A, Gerry N, Chen G, Herbert A, Doumatey A, **Huang H**, Zhou J, Lashley K, Chen Y, Christman M, Rotimi C. A genome-wide association study of hypertension and blood pressure in African Americans. *PLoS Genet*. 2009;5(7):e1000564
8. Steinthorsdottir V., et al. A variant in CDKAL1 influences insulin response and risk of type 2 diabetes. *Nat Genet*. 2007;39(6):770-5
9. Chen Y, **Huang H**, Zhou J, Doumatey A, Lashley K, Chen G, Agyenim-Boateng K, Eghan BA, Acheampong J, Fasanmade O, Johnson T, Akinsola FB, Okafor G, Oli J, Ezepue F, Amoah A, Akafo S, Adeyemo A, Rotimi CN. Polymorphism of the endothelial nitric oxide synthase gene is associated with diabetic retinopathy in a cohort of West Africans. *Mol Vis*. 2007;26(13):2142-7.
10. Chen, G., A. Adeyemo, J. Zhou, Y. Chen, **H. Huang**, A. Doumatey, K. Lashley, K. Agyenim-Boateng, B. A. Eghan, Jr., J. Acheampong, O. Fasanmade, T. Johnson, G. Okafor, J. Oli, A. Amoah, and C. Rotimi.. Genome-wide search for susceptibility genes to type 2 diabetes in West Africans: Potential role of C-peptide. *Diabetes Res Clin Pract*. 2007;78(3):e1-6
11. G. Zhang, H Hirai, J Miura, **H. X. Huang**, W. D. Swaim, A.L. Notkins, and T. Cai: RESP18, a homolog of the luminal domain IA-2, is found in dense core vesicles in pancreatic islet cells and is induced by high glucose, *J Endocrinol*. 2007;195(2):313-21
12. Chen G, Adeyemo AA, Zhou J, Chen Y, Doumatey A, Lashley K, **Huang H**, Amoah A, Agyenim-Boateng K, Eghan BA Jr, Okafor G, Acheampong J, Oli J, Fasanmade O, Johnson

- T, Rotimi C. A genome-wide search for linkage to renal function phenotypes in West Africans with type 2 diabetes. *Am J Kidney Dis.*, 2007 49(3):394-400.
13. Rotimi CN, Chen G, Adeyemo AA, Jones LS, Agyenim-Boateng K, Eghan BA Jr, Zhou J, Doumatey A, Lashley K, **Huang H**, Fasanmade O, Akinsola FB, Ezepue F, Amoah A, Akao S, Chen Y, Oli J, Johnson T: Genomewide scan and fine mapping of quantitative trait loci for intraocular pressure on 5q and 14q in West Africans. *Invest Ophtha lmol Vis Sci.*, 2006 47(8):3262-7.
14. M.Q. Wu and **H.X. Huang** : Observation of 36 pediatric Tourette Syndrome with L-SPD treatment. *Acta Acad. Med. Suzhou* ,1996 16(2): 323-324
15. **H.X. Huang** and M.Q. Wu: A comprehensive therapy of cerebral paralysis. *Acta Acad. Med. Suzhou* ,1996 16(4): 693-694
16. **H.X. Huang** and M.Q. Wu: Cerebral paralysis restorative treatment: physical exercise plus neuron nutrition. *Acta Acad. Med. Suzhou* ,1997 17(2): 362
17. Q. Ma, M.Q. Wu, A.Q. Wang, Y. Li, J.H. Tang, **H.X. Huang**: Changes of T cell immune function in pediatric epilepsy. *Clin. J. of Neuropathy*, 1999 12(3): 171-172
18. **H.X. Huang**: Quality control in clinic guidance to medic and internship. *Acta Acad. Med. Suzhou*, 1999 19(10): 1107-1108