

## CURRICULUM VITAE

Charles N. Rotimi, PhD

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### PERSONAL INFORMATION:

**Citizenship:** USA citizen  
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### EDUCATION:

University of Benin, Nigeria	B.S	1979	Biochemistry
University of Mississippi	M.S	1983	Health Care Administration
University of Alabama at Birmingham	MPH	1988	Epidemiology
University of Alabama at Birmingham	PhD	1991	Epidemiology

**PROFESSIONAL TRAINING:** Epidemiology, Statistics, Genetics/Genomics, Biochemistry and Administration

### PRESENT ACADEMIC RANK AND POSITION

**Senior Investigator:** Division of Intramural Research, National Human Genome Research Institute (NHGRI)

**Branch Chief:** Metabolic, Cardiovascular and Inflammatory Disease Genomics Branch, NHGRI

**Director:** Trans-NIH Center for Research on Genomics and Global Health

### PREVIOUS ACADEMIC RANK AND POSITION

1983 - 1984 **Administrative Assistant**, Delta Medical Center, Greenville, Mississippi  
1992 - 1998 **Assistant Professor**, Department of Preventive Medicine & Epidemiology, Loyola University Medical Center, Illinois, USA  
1998 - 1999 **Associate Professor**, Department of Preventive Medicine & Epidemiology, Loyola University Medical Center, Illinois, USA  
1999 - 2003 **Associate Professor**, Department of Microbiology, College of Medicine, Howard University, Washington, DC  
1999 - 2008 **Director**, Genetic Epidemiology, National Human Genome Center, Howard University, College of Medicine, Washington, DC  
2003 - 2008 **Tenured Professor**, Department of Community and Family Medicine, College of Medicine, Howard University, Washington, DC.  
2004 - 2008 **Director**, National Human Genome Center at Howard University, Washington, DC

### NIH ADMINISTRATIVE APPOINTMENTS AND SERVICES

1. **Grant Reviewer** for multiple institutes including NHLBI and NIDDK since 1996
2. **Member:** Jackson Heart Study Genetics Committee. 2000 – 2008

3. **Member NIH Panel:** First Community Consultation - responsible collection and use of samples for genetic research. 2001
4. **Member of Panel:** Planning Meeting on Studying Interactions among Social, Behavioral, and Genetic Factors in Health, NIH. 2001
5. **Member Adi-Map:** An Obesity gene mapping collaborative project. NIDDK/NIH 2001
6. **Mentorship:** Career Development Award – K23 (NIA/NIH). 2001 – 2006
7. **Member of Committee:** International Haplotype Mapping Project (HapMap) 2001
8. **Member:** Framingham Monitoring Board (NHLBI) - The Framingham Heart Study was initiated in 1948 to provide data on the growing problem of heart disease, stroke and CVD in the US. 2001 – 2012
9. **Member of NICHD Monitoring Board:** National Institute of Child Health and Human Development data safety monitoring committee for the NICHD intramural clinical research programs 2002- 2008
10. **Secretary's Advisory Committee on Genetic Testing (SACGT):** NIH Office of Science Policy: Panel on Race and Ethnicity. Exploring the Collection, Use and Analysis of Data on Race and Ethnicity in Genetic Research and Genetic Testing. 2002
11. **Member of Panel:** Roundtable discussion on "Race, Ethnicity, Genetics, and Health Disparities 2002
12. **Member:** NIDDK Board of Scientific Counselors Review Panel, Bethesda, MD. 2006
13. **Member:** NCI-NHGRI Working Group on Criteria for Replication of Genotype-Phenotype Association. 2007
14. **Member:** NHLBI Expert Panel on Human Whole-Exome DNA Resequencing. 2007
15. **Moderator:** NCI Gene-Nutrition & Gene-Physical Activity Interactions in obesity Etiology. 2007
16. **Member:** NHLBI-CDC RuSH Steering Committee. Surveillance and Research Program for Inherited Blood Diseases. 2008-2009
17. **Member:** NHGRI Faculty Search Committee, Social and Behavioral Research Branch. 2009-2010
18. **Member of panel:** NIH Global Health Research Meeting. 2010
19. **Chair:** NHLBI Earl Stadtman Search Committee, 2010 and 2014
20. **Member:** NIA Faculty Search Committee. 2010
21. **Member:** NHGRI Promotions & Tenure Committee. 2011
22. **Member:** NCI Tenure Track Search Committee, Genetic Epidemiology Branch. 2011
23. **Member:** NIDDK Faculty Search Committee. 2011
24. **Ad hoc Reviewer:** NIH Central Tenure Committee. 2014

## INTERNATIONAL AND NATIONAL PROFESSIONAL APPOINTMENTS AND SERVICES

1. **Manuscript Reviewer** for several international journals including *Science*, *NEJM*, *PLOS journals*, *American Journal of Human Genetics*, *Hypertension and Diabetes*. 1995 – Present
2. **Associate Editor:** Ethnicity and Disease- Official publication of the International Society on Hypertension in Blacks. 1995 - 1996
3. **Grant Reviewer** for international organizations including the Wellcome Trust, the UK Medical Research Council and the South African Medical Research Council. 1996 – Present
4. **Member of Editorial Board** for several journals: *Public Health Genomics*, *Genome Medicine*, *Clinical Genetics*, *Journal of Applied and Translation Genomics*.
5. **Co-Chair** American Diabetes Association: Session entitled Predictors of Diabetes. 61<sup>st</sup> Scientific Session in Philadelphia, Pennsylvania, June 22-26, 2001.
6. **Abstract Grader** for professional conferences including American Diabetes Association, American Society of Human Genetics and African Society of Human Genetics. 2001 – Present
7. **International Symposium (member of panel):** Genetics of African Populations: Implications for Studies of Human Origins and Human Disease - American Society of Human Genetics Annual meeting, San Diego, 2001.
8. **Consultant:** Clinical Research Center, Morehouse School of Medicine, Atlanta, GA. 2001 – 2007
9. **Member:** Stroke Prevention Intervention Research Program (SPIRP) External Advisory Committee,

Morehouse School of Medicine, Atlanta, Georgia. 2001 – 2007

10. **Expert Audience:** “African Genealogy & Genetics: Looking Back to Move Forward” conference in Minneapolis, MN, June 21 & 22, 2002.
11. **National Symposium – Ethnicity and Epidemiology:** Casting race in a new light (the role of genes): American College of Epidemiology Annual Scientific Sessions – September 22, 2002. Albuquerque, New Mexico
12. **Founding President**, African Society of Human Genetics. Served as President from 2004 to Jan 2014
13. **Member:** Howard University General Clinical Research Center Advisory Council-GCRC. 2004 – 2008
14. **Member of Panel:** Current Proposals for Responsible Use of Racial & Ethnic Categories. University of Minnesota Law School. April 18, 2005
15. **Member of Committee** - Community Consultation as an Ethics Method. University of Wisconsin-Madison – 2005
16. **Member, External Advisory Board** - The Center for Genetic Research Ethics & Law, Department of Bioethics, Case Western Reserve University School of Medicine, Cleveland OH. 2005 – Present
17. **Board Member of** Coriell Personalized Medicine Collaborative Board for the evaluation of how genomics findings may be translated into clinical practice. <http://cpmc1.coriell.org/about-the-cpmc-study/advisory-boards>. 2008 – Present.
18. **Member of the Executive and Scientific Committee** for the International Federation of Human Genetics Societies. 2008 – Present
19. **Nominating Committee Member**, American Society of Human Genetics, 2008
20. **International Scientific Advisory Committee** – The Institute of Infectious Disease and Molecular Medicine, University of Cape Town, South Africa 2008 – Present
21. **Member of Panel:** Developing a Framework to Guide Genomic Data Sharing and Reciprocal Benefits to Developing Countries and Indigenous Peoples. A Colloquium - Georgetown University. 2009
22. **H3Africa:** Member of the high level working group and Steering Committee for the Human Heredity and Health in Africa (H3Africa) initiative funded by the NIH and the Wellcome Trust. 2009 – Present. <http://www.youtube.com/watch?v=G0H8KwmWaAY>.
23. **Co-Chair:** Scientific Planning Committee for the 2010 International Society of Hypertension in Blacks, Washington, DC. 2010
24. Member of Global Agenda Council on Genetics, **World Economic Forum**. 2011 – 2012
25. **Board Member** of Human Genetics Scientific Advisory Board, Wellcome Trust Sanger Institute. 2012 – Present
26. Member of Sample and ELSI group – **1000 Genome Project**. 2012 – Present
27. **Council Member:** Human Genome Organization (HUGO). Serving HUGO council in the capacity of an ex Officio U.S. Federal Liaison. 2013 – Present
28. **Member of Panel:** The Future of Race and Science: Regression or Revolution? University of Pennsylvania - April 11, 2014

**INTERNATIONAL MEETINGS AND PRESENTATIONS:** I have participated, as a Chair, moderator and presenter in international professional conferences in genetics/genomics, epidemiology, health disparities and ethics in several countries including Switzerland, Hong Kong, China, Canada, United Kingdom, France, Germany, Australia, Brazil, Chile, Mexico, United Arab Emirates (Dubai), Egypt, Cameroon, Sudan, South Africa, Kenya, Ethiopia, Ghana and Nigeria (*presentation titles and conference locations are listed in the Bibliography section*).

### **AWARDS AND HONORS**

1988 - Patricia Robert Harris Foundation Award for women and members of minority groups with excellent academic achievements (Obtained a GPA of 4.0).

- 1994 - Minority International Research Training (MIRT) Program to investigate familial patterns of blood pressure and hypertension in the US and Nigeria.
- 1996 - Minority International Research Training (MIRT) Program to collect pilot data on Nigerian nuclear families to investigate the genetics of obesity.
- 2004 Certification of Appreciation – International Haplotype Mapping (HapMap) Consortium. I was the principal investigator for the NIH funded project to engage African communities for HapMap.
- 2004 Elected as the **President** of the African Society of Human Genetics
- 2005 Recipient of the Howard University College of Medicine 2006 Outstanding Faculty Research Award.
- 2008 Straight talk with... Charles Rotimi: Interview by Charlotte Schubert. *Nature Medicine*, July 2008
- 2008 **Newsmakers:** Featured as a Newsmaker in world leading scientific journals including *Science* (Vol. 319, 2008) and *Nature* (<http://www.nature.com/naturejobs/2008/080410/pdf/nj7188-778b.pdf>)
- 2010 **Lancet Profile:** Charles Rotimi: Engaging Africa in human genomic research. *The Lancet*, Volume 376, Issue 9750, Page 1383, 23 October 2010
- 2011 Appointed to the Global Agenda Council on Genetics, World Economic Forum
- 2012 Invited Speaker: **Science Webinar Series** – “The Hunt for Missing Heritability: Challenges and Opportunities for Novel Locus Discovery in Non-European Populations. *Science/AAAS*, January 31, 2012 <http://webinar.sciencemag.org/webinar/archive/hunt-missing-heritability>
- 2012 Invited Speaker: Grand Rounds - Ancestry, Race and Health in the Genomic Era. University of Miami Leonard M. Miller School
- 2012 Received the **NIH Director’s Award** - Members of the Common Fund Global Health Leadership
- 2013 University of Alabama (UAB) School of Public Health’s Alumnus Award for Scientific Excellence.
- 2013 **Awarded Honorary Professorship:** University of Cape Town, South Africa – Africa number one university
- 2013 **Council Member:** Elected to the Council of the Human Genome Organization (HUGO)
- 2014 **Member of Planning Committee:** [Why We Can’t Wait](#): Conference to Eliminate Health Disparities in Genomic Medicine – *The role of Policy. 2014*. Washington, DC
- 2014 **Gold Scientific Achievement Award, 2014 South African Medical Research Council SCIENTIFIC MERIT AWARDS** in recognition of excellence in research.

## NATIONAL TEACHING AND TRAINING

1. **Course Director:** Preventive Medicine and Epidemiology Course for Medical School Students. Loyola University Medical Center, Maywood, IL 1994
2. **Mentor:** Several students (undergraduate, graduate, post docs and research fellows) at Loyola University Medical Center, Howard University and the NIH. 1999 – Present
3. **Lecturer:** Infectious (pathogens) Diseases Epidemiology - Department of Microbiology, College of Medicine, Howard University. 2000 – 2004
4. **Cardiology Lectures:** Conducted lecture series for cardiology residents at Howard University Hospital on epidemiology and statistics including study design, hypothesis testing and review of medical literature. 2000
5. **Member of PhD Committees:** Department of Microbiology, Howard University. 2001 – 2008
6. **Special Topic Course:** Participating faculty - Department of Microbiology: Molecular Evolution and Disease. 2001 – 2004
7. **Guest Lecturer:** BSCI416 Syllabus: Biology of the Human Genome (3 credits) SPRING 2002 University of Maryland, Department of Biology, College Park, MD
8. **Seminar Coordinator:** Department of Microbiology. 2002
9. **New Graduate Course:** Designed a new graduate course for the Department of Microbiology students. The goal of the course entitled “**Research Methodology**” was to educate students on the philosophy of research. Emphasis was on how to develop proposals directed at investigating specific questions in biomedical research. 2002

10. Lecturer: Community and Family Medicine: Research design, case-control studies – sources of bias, clinical trials and the concepts of screening & diagnosis. 2005-2008
11. **Mentor:** American Society of Human Genetics Trainee-Mentor Luncheon, Philadelphia, PA, 2008

## INTERNATIONAL TEACHING AND TRAINING

**Instructor:** Developed epidemiology and statistics courses that I presented as series of lectures to students and faculty members (Epidemiology Summer Training Program) of the College of Medicine, University of Ibadan, Ibadan, Nigeria; July, 1992 to 1994. This program was partly supported by USAID/CDC and Loyola University Department of Preventive Medicine and Epidemiology.

**Lead Discussant:** Symposium on the epidemiology and pathogenesis of chronic diseases in developing countries. College of Medicine, University of Ibadan, Ibadan, Nigeria; July, 1992.

**Instructor Research Training:** In addition to my US teaching and training activities, I traveled to Ghana, Nigeria, Cameroon, Kenya, Ethiopia, Jamaica and China to conduct research in the epidemiology and genetics of hypertension, obesity and diabetes. In the process of conducting these research activities, I provided training to the local investigators in the development of research protocol and implementation of research designs given local constraints. 1994 to present

**Mentorship:** Continue to serve as mentor to faculty and students at national and international institutions. I have been appointed to several national and international PhD committees since 1997.

**Conducted International Focus Group** of community and religious leaders and biomedical investigators on bioethical issues in the conduct of genetic epidemiology studies in developing countries. Ibadan, Nigeria. January 2000

**Instructor:** Theoretical Course: “Molecular Medicine and Genomics in Africa” organized by Muntaser E. Ibrahim (university of Khartoum, Sudan and Francisco E. Baralle (ICGEB, Trieste, Italy) January 2008

## MENTORSHIP

My role as a mentor is one that I take very seriously, being aware as I am of the enormous impact that the acquisition of necessary skills and thoughtful guidance can have on the trajectory of early career scientists. I am particularly conscious of the place that I can have in the development of scientists who are ethnic minorities, given the relative paucity of leaders in genomic science, epidemiology and statistics from underrepresented populations. I recognize that I am uniquely situated to counsel these individuals, as my path may be useful as they chart their own successes. As such, I take extreme pride in the mentees from ethnic minority groups that have come through my lab. My lab’s research focus on the genetic and social determinants of health disparities has attracted and continues to attract the interest of researchers and trainees with diverse expertise who are eager to incorporate genomics and epidemiology into their work. For example, Debbie Barrington, PhD, an Assistant Professor at Columbia and a social epidemiologist spent over a year in my lab to acquire genetic epidemiology skills in order to model gene-by-environment interactions appropriately in the context of ethnicity. Her work, based on the data from the African American cohort that I established when I was a Professor at Howard University – the Howard University Family Study – led to an important publication that found that African American boys who grew up in two-parent homes were less likely to have high blood pressure as adults compared to those raised by a single or neither parents. Reported in the Dec. 12, 2013, issue of the journal *Hypertension*, this is the first study of an African-American population to document an association between childhood family living arrangements and blood pressure. Also, Shawneequa Callier, a lawyer, ethicist, and Assistant Professor at George Washington University, completed postdoctoral work with in



my lab and is now an NIH Special Volunteer, exploring the role of race/ethnicity in treatment decisions with particular attention of how primary care doctors are using the concept of pharmacogenomics in decision making in the treatment of hypertension in black patients. At the international level, my lab has trained the first Ethiopian genetic epidemiologist, Fasil Ayele, who completed his PhD thesis and post-doctoral training in my NIH lab where he is now a Research Fellow. His dedication to a neglected tropical disease in his country has resulted in remarkable advances on the genetic epidemiology of Podoconiosis, work receiving much-deserved attention (*N. Engl. J. Med.* 2012). Celebration of this achievement is tempered by recognizing how rare it is for an African scientist to lead such a major publication. One of our past mentees, Keolu Fox, a native Hawaiian, was recently honored as the “Best Graduate Student Presenter in Genetics” by the Society for Advancement of Chicanos and Native Americans in Science, an award highlighted by the NHGRI Public Affairs Office (<http://www.genome.gov/27548221>). He is pursuing his PhD at the University of Washington with the ambition of opening a genome center in Hawaii focusing on health disparities. A summary of mentees is given below.

<b>Current Mentees</b>		
<b>Name</b>	<b>Position</b>	<b>Date Began Mentoring</b>
Ephrem Mekonnen	Pre-Doctoral Student, Ethiopia	2014
Pravitt Gourh, MD	Fellow, National Institute of Arthritis and Musculoskeletal and Skin Diseases, NIH	2013
Anne Sumner, Ph. D	Tenured Investigator, NIDDK,NIH	2010
Shawneequa Callier, M.A., J.D.	Assistant Professor, George Washington University	2009
Daniel Shriner, Ph.D.	Staff Scientist, CRGGH	2008
Guanjie Chen, M.D.	Senior Research Fellow, CRGGH	2008
Ayo Doumatey, Ph.D.	Research Fellow, CRGGH	2008
Amy Bentley, Ph.D.	Postdoctoral Fellow, CRGGH	2010
Fasil Tekola Ayele, Ph.D.	Postdoctoral Fellow, CRGGH	2008

<b>Past Mentees and their Current Positions</b>			
<b>Name</b>	<b>Position</b>	<b>Dates</b>	<b>Current Position and Affiliation</b>
<b>National Human Genome Center, Howard University, Washington, DC</b>			

Olufemi Adegoke, M.B.Ch.B., Ph.D.	Post-Doctoral Fellow	2000-2002	Assistant Professor of Epidemiology, Meharry Medical College, Nashville, TN
Ehikioya Osomobor, M.D.	Post-Baccalaureate	2001	Internal Medicine, Lewis Gall Hospital, Pulaski, VA
Garry Allison, Ph.D., M.P.H.	Post-Doctoral Fellow	2001-2002	Program Director in the Epidemiology and Genomics Research Program's Modifiable Risk Factors Branch, National Cancer Institute, NIH
Olayinka Aje, M.D., M.P.H.	Graduate Student	2001-2003	Chief Resident, Internal Medicine, Cardiology Fellow, University of Maryland Medical Center, Baltimore
Nia Coulibaly, M.D.	Post-Baccalaureate	2001-2003	Obstetrics and Gynecology, Lutheran Medical Center, Brooklyn, NY
Thomas Obisesan, M.D.	Junior Researcher	2001-2007	General Internal Medicine, Geriatrics, Howard University Hospital
Sloan Sanford, M.P.H.	Post-Baccalaureate	2003-2007	Minority Health Coordinator for the City of Akron Health Department
Kerrie Lashley, M.S.	Graduate Student	2004-2008	Research Associate I, National Cancer Institute, NIH
Ashley Williams	High School Student	2006-2007	Laboratory Technologist, Parexel Pharmaceuticals
Zebalda Bamji, Ph.D.	Pre-Doctoral Student	2007-2008	Post-Doctoral Fellow at the Cancer Center, Howard University, and Associate Professor, Howard University
Chazeman Jackson, PhD	Pre-doctoral student	2008-2010	HHS Emerging Leader at the National Institutes of Health
<b>National Human Genome Research Institute, NIH</b>			
Emmanuel Peprah, Ph.D.	Post-Doctoral Fellow	2010-2012	Contractor, NIH Office of the Director
Katherine Meilleur, Ph.D.	Post-Doctoral Fellow	2008-2010	Staff Scientist, National Institute of Neurological Disorders and Stroke, NIH
Shantelle Lucas, Ph.D.	Graduate Student	2009-2011	Post-Doctoral Fellow, University of California at Davis and California Department of Public Health
Keolu Fox	Post-Baccalaureate	2009	Graduate Student, University of Washington
Ephrem Teklemariam	Post-Baccalaureate	2010-2011	Medical Student, Albany Medical Center
Rhea Wyse	High School Student	2011	Undergraduate Student, University of North Carolina, Chapel Hill
Debbie Barrington, Ph.D., M.P.H.	Assistant Professor, Columbia University	2011	DREAM Fellow NIMHD, NIH

Huichun Xu, M.D., Ph.D.	Research Fellow, CRGGH	2010	Research Fellow, John Hopkins
Bashira Charles, Ph.D.	Postdoctoral Fellow, CRGGH	2009	Research Fellow, NHGRI
Edward Ramos, Ph.D.	Research Fellow, CRGGH	2008	NIH Office for Scientific Workforce Diversity

## PRESENT AND PAST PROFESSIONAL ORGANIZATION

Member:

1. American Association for the Advancement of Science (AAAS)
2. American Society of Human Genetics
3. International Genetic Epidemiology Society
4. African Society of Human Genetics
5. Human Genome Organization (HUGO)
6. International Society on Hypertension in Blacks
7. International Diabetes Federation (IDF)
8. American Diabetes Association Professional Section (ADA)
9. American Heart Association - High Blood Pressure Council

## ONGOING RESEARCH ACTIVITIES IN MY LAB (Center For Research on Genomics and Global Health – CRGGH, NHGRI, NIH)

1. 1ZIAHG200362-02 Rotimi (Director) NIH Intramural Research Program 03/2008 – present

**Trans-NIH Center for Research on Genomics and Global Health (CRGGH):** The mission of the CRGGH (my lab) is to advance research into the role of culture, lifestyle, genetics and genomics in disease etiology, health disparities, and variable drug response. We develop strategic research resources to facilitate the study of genetic and environmental factors in health and health disparities in the United States and globally. For example, my lab participated actively in the development of the HapMap, the 1000 Genome and the African Variation projects and recently the Human Heredity and Health in Africa (H3Africa) Initiative. In addition, my lab has developed several large-scale genetic epidemiology studies in the US (African Americans – n>2,000), Africa (n>7,000) and China (n>2,000) for the study of metabolic disorders including obesity, diabetes, hypertension, dyslipidemia, kidney diseases and related traits. My lab is also using genomic and epidemiologic approaches to share light on neglected tropical diseases (e.g., Podoconiosis). Research in my lab is supported by the National Human Genome Research Institute, the National Institute of Diabetes and Digestive and Kidney Diseases, the Center for Information Technology, and the Office of the Director at the National Institutes of Health. More details are available at <http://www.crqgh.nih.gov> and [www.genome.gov](http://www.genome.gov)

### **Specific Projects at the CRGGH**

- A. Epidemiology of the social, economic and cultural determinants of metabolic disorders that are differentially distributed by ethnicity and geography.
- B. Whole-exome sequencing in African families with multiply affected persons with type 2 diabetes
- C. Whole-genome admixture and association mapping for multiple traits in African Americans
- D. Genome-wide association studies of complex diseases/traits in African Americans
- E. Genetic epidemiology of Diabetes in Africans (sites in Nigeria, Ghana and Kenya). Over 6,000 individuals enrolled and examined
- F. Genetic epidemiology of Diabetes in China – study site in Suizhou. Whole Exome Chip Array



- G. Genetic epidemiology of Obesity and related traits in Africans and African Americans
  - H. Genetics of Neglected Tropical Diseases - Podoconiosis in Ethiopians and Cameroonians
  - I. RNAseq – whole genome transcriptome sequencing in multiple human tissues
  - J. Development of statistical genetics analysis tools; recent example includes a novel approach for the analysis of admixed populations (PLoS Comput Biol. 2011) and the simultaneous analysis of common and rare variants in complex disease research (Bioinform Biol Insights. 2012)
  - K. Africa Genome Variation Project – Characterizing human genetic variation in 18 African populations that are not participants in the HapMap and 1000 Genomes Projects.
2. **MH\_GRID (PI: Quarells, Rakale):** the Minority Health **G**enomics and Translational **R**esearch **B**io-Repository **D**atabase Network (Minority Health-GRID Network). The NIH funded MH\_GRID is utilizing whole exome sequencing approaches to characterize 2400 African Americans with resistance hypertension and controls. I am on the Executive and Statistical/Population Genetics Committees for MH\_GRID.
  3. MRC IIB Research Grant Newport (PI) The Medical Research Council, UK 2012-2015  
**Discovering podoconiosis susceptibility genes: from molecules to disease control for a 'neglected' NTD.** The aim of this MRC-funded (GBP £504,189) application is to: identify new DNA variants that are specific to populations affected with podoconiosis in Ethiopia, confirm the original GWAS findings in Wolaita and replicate our findings in three new ethnically distinct populations from Debre Markos and Wollega zone in two podoconiosis-endemic regions in Ethiopia and northern Cameroon. The project will use whole exome capture with sequencing, targeted sequencing of the HLA region and custom SNP genotyping for discovery and association testing.
  4. WT099316MA Motala (PI) The Wellcome Trust, UK 2012-2017  
**Burden, Spectrum and Etiology of Type 2 Diabetes in sub Saharan Africa**  
This five year £2.5M Wellcome Trust H3Africa Strategic Award application funds a consortium of 16 centers in 9 African countries, the UK and the USA. The consortium will establish a large scale epidemiological and genomic research resource comprising 12,000 cases of diabetes and 12,000 control participants drawn from sub-Saharan Africa to assess the burden and etiological characteristics of T2D and its complications.

### Completed Research Support

- (1) **R01-DK072128 Rotimi (PI) \$1,715,095**  
**NIDDK (Fine mapping and positional cloning of diabetes genes)**

We proposed to conduct SNP typing on chromosome 5 and 19. A total of 4,608 SNPs in 460 sibships (n=1380 persons) at a density of 5-6 kb within genes and 11-12 kb for intergenic regions was requested. Linkage and family-based association analyses will be conducted. Identified candidate genes/loci will be re-sequenced and functional SNPs will be typed in 1000 cases and 1000 controls to perform ethnically matched association and LD mapping studies. Phenotype/genotype association will be assessed and functional associations will be repeated in four groups – Yoruba, Nigeria; Luhya, Kenya; African Americans and Finnish in the FUSION study.

- (2) **R01 DK58000 Rotimi (PI) \$1,976,567**  
**NIDDK (Genetics of Obesity in Blacks)**

The goal of this project is to develop a family study of African Americans and Nigerians to identify genetic and environmental factors that contribute to the risk of obesity in a cross-cultural setting. The

pattern of inheritance of obesity is model in a cross-cultural setting with widely contrasting environments. In addition to newly reported genes, we proposed to evaluate the role of the following candidate genes, a quantitative trait locus (QTL) on chromosome 7 (ob gene locus), QTL on chromosome 2; pro-opiomelanocortin (POMC); beta3-adrenergic receptor (beta3-AR); Thyroid hormone receptor genes (TR-beta and TR-alpha); Uncoupling protein-2 and -3 (UCP2, UCP3 locus); melanocortin-4 receptor (MC4R locus).

- (3) **N01- HG-85432 Rotimi (PI) \$7,332,619**  
**DHHS-NIEHS NCMHD/NHGRI (Africa America Diabetes Mellitus Study)**

The purpose of this study is to map type 2 diabetes genes in West African ancestral populations of African-Americans, through an international collaboration between West African and US investigators. This ongoing collaboration has enrolled and examined 400 affected sib-pairs along with 200 unaffected spouse controls from West Africa, with two sites in Ghana (Accra and Kumasi) and three in Nigeria (Enugu, Ibadan and Lagos). The next phase is to enroll other family members of the affected sibling pairs to develop a series of nuclear and extended pedigrees. Our strategy is to develop a database containing high quality demographic, epidemiologic and pedigree information in conjunction with blood samples collected for biological assessment and isolation of high quality DNA for whole genome scans. This international collaborative effort brings together the expertise of investigators from multiple disciplines including epidemiology, endocrinology and genetics. Furthermore, the collaboration presents unique opportunities to scientists in developing countries to actively participate in human genome research and will in the future facilitate research activities directed at understanding the etiology of other common complex diseases.

- (4) **S06-GM008016-32 Rotimi (PI) \$1,354,148**  
**(Genetic Epidemiology of Hypertension in African American Families)**

We propose to determine the contribution of selected genetic and environmental factors to hypertension and BP distribution in large multigenerational population-based African American families enrolled from the Washington, DC communities. We have so far enrolled and examined over 300 African Americans families with over 1700 persons from multiple generations. We refer to this study as the Howard University Family Study.

- (5) **P41-HG02677 Rotimi (PI) \$1,860,066**  
**NHGRI/NIH (Engaging African Communities for the HapMap Project )**

We propose to design and implement a culturally appropriate community engagement program that will result in the recruitment of subjects in three sub-Saharan populations (Kenya: Luyha and Maasai; Nigeria: Yoruba) to donate DNA samples for both the International Haplotype Mapping Project and an ongoing research program at Howard University called "Translational Genomic Research in the African Diaspora".

- (6) **R01 HG02207-04 Rotimi (Co-Investigator)**  
**NIH/NHGRI (ELSI) (Consent in Genetic Research: An International Trial)**

The proposed study will develop, test, and implement a videotaped educational intervention to improve informed consent for genetic epidemiological research on hypertension and breast cancer being conducted with populations of African heritage in the U.S. and Nigeria

- (7) **R01-CA098663 Rotimi (Co-investigators; PI: Julie Palmer)**

**NCI (Black Women Health Study)****(\$403,477 sub-contract)**

Dr. Rotimi is one of the investigators for the ongoing Black Women Health Study (BWHS). The BWHS is a national cohort of black women assembled in 1995 to study causes of illness in black women. It includes approximately 59,000 women aged 21-69 at baseline. Detailed information on diet, lifestyle factors, and disease endpoints was collected at baseline and in biennial follow-up questionnaires. Dr. Rotimi's lab is responsible for receiving, isolating and tracking DNA samples on these women. On average, his lab receives and processes about 80 DNA samples daily. We have processed over 25,000 DNA samples to date.

- (8) R01 HG02207-01 (PI: Marshall) Rotimi (Co-Investigator) \$1,199,937**  
**NHGRI (ELSI) (Informed Consent and Concept of Race in Genetic Research)**

The goals of this project are to: 1) define existing processes for obtaining informed consent in genetic research on hypertension and breast cancer currently being conducted in metropolitan Chicago and Nigeria; 2) identify mechanisms to ensure culturally appropriate informed consent that are maximally informative and protective for all research participants; 3) examine the ways in which the cataloging of new DNA polymorphisms interact with and perpetuate current concepts of race, ethnicity and culture; and 4) identify mechanisms for appropriate use of the concepts of race, ethnicity and culture in genetic epidemiological research in order to foster the development of effective clinical intervention and access to health care for all ethnic populations

- (9) Mordecai Wyatt Johnson Program Rotimi (PI) \$370,000**  
**Genetics of obesity in populations of the African Diaspora: implications for increased susceptibility to breast cancer**

Genetics of obesity in populations of the African Diaspora: Implications for increased susceptibility to breast Cancer. The goal of this study is to enroll 300 multi-generational families of at least 5 persons per family from the Washington, DC and surrounding Maryland communities to study the molecular basis of obesity and the potential contribution of obesity candidates to breast cancer risk. This study will evaluate the determinants of participation of African Americans in genetic epidemiology studies.

- (10) N01-HC-95170 Rotimi (PI) \$1,392,832**  
**NHLBI-Jackson Heart Study (Jackson Heart Study/Howard University Collaboration)**

The goal of this project is to contribute to the successful establishment of a large well-characterized population-based cohort of African American pedigrees to the complex interaction between environmental and genetic factors in the etiology of heart diseases and associated complications. Howard University is expected to provide genetic epidemiology training to Jackson Heart Study investigators and students and increase community participation in biomedical research with the ultimate goal of reducing health disparity

- (11) Genome scan: CIDR/NHGRI Rotimi (PI) Estimated cost of project - \$1,400,000**  
**(In Search of Susceptibility Genes for Type 2 Diabetes in West Africa)**

To conduct a genome scan on 800 affected sibling pairs with type 2 diabetes and 200 controls using a 10 cM map of genetic markers. To conduct statistical analysis on the resulting data from the genome scan including linkage analysis of the ASP based on the probability that siblings share zero, one and two genes IBD at the putative disease locus. In addition, linkage analysis of diabetes-related quantitative traits will be conducted. To type additional markers and conduct further statistical analysis

on informative regions from the genome scan data to rule “in” - likely true positive or rule “out” likely true negative results. To sequence informative regions to identify and clone diabetes susceptibility genes.

**(12) R29 HL52075-03 Rotimi (PI)  
NHLBI/NIH (Hypertension in Families of African Origin)**

Goals are: 1.) Determine whether the familial aggregation of BP in black populations is influenced by the overall distribution of environmental factors at the population level by contrasting the distribution of familial correlations of BP, and the familial aggregation of HTN, in Ibadan and Chicago. 2.) Determine significance of measured environmental correlates of BP in each environment. 3.) Use path analysis to obtain estimates of the genetic and cultural heritability of BP within each population.

**(13) NHGRI/NIH (Ethical Issues in the Conduct of Genetic Epidemiology Research on Complex Disease: A Study of Informed Consent Procedures in Urban and Rural Nigeria) Rotimi (PI)**

Describe the formal structures in place for ethical review of the genetic epidemiological research protocols in Chicago, Illinois, and in urban (Lagos and Ibadan) and rural (Igbo-Ora) sites in Nigeria. Design, pre-test and implement a survey addressing subjects' understanding of and response to informed consent for participation in genetic epidemiological research on hypertension, Type-II diabetes, and breast cancer in Chicago, Illinois, and in Lagos, Ibadan and Igbo-Ora, Nigeria. Drawing on concepts from behavioral decision theory, this survey will examine the influence of a potential subject's understanding of research goals, perceptions of the risks and benefits of participating in research, reasons for consent or refusal to participate in the study, and satisfaction with the consent discussion. The stratified sample of three patient populations allows for an assessment of informed consent for genetic epidemiological research on diseases that differ in terms of the availability of treatments and the degree to which they are perceived to be life threatening.

**(14) R01 NL45508-07 (PI: Cooper) Rotimi (Co-Investigator)  
NHLBI/NIH (Hypertension in Populations of West African Origin)**

Goals are: 1.) To complete and analyze cross-sectional data on blood pressure and risk factors in 12,000 adults from three populations (West Africa, The Caribbean and The US). 2.) To extend survey to Caribbean migrants in the United Kingdom. 3.) To perform detailed studies on the origin of hypertension in the source population - Africa. 4.) Evaluate trends in BP over a four year period. 5.) Determine prevalence of CV sequelae and conduct a follow-up study of the 12,000 participants enrolled in the previous period. 6.) Recruit/examine families in each population. 7.) Determine the frequency of DNA markers in sub-sample from each site to establish genetic distance. 8.) Study candidate genes for hypertension to assess potential contributed to risk.

**(15) R01 HL53353-03(PI: Cooper) Rotimi (Co-Investigator)  
NHLBI/NIH (The Genetics of Hypertension in Blacks)**

Goals are: 1) determine the contribution of genes underlying the renin-angiotensin system in each population and, by contrasting the results between populations, estimate the degree to which genotype-environmental interactions contribute to hypertension among African Americans. 2.) Use family studies to evaluate the extent to which candidate genes for the renin-angiotensin system co-segregate with hypertension, as well as the intermediate phenotypes.

**(16) U10 HL54485-03 (PI: Cooper) Rotimi (Co-Investigator)  
NHLBI/NIH (Field Center: Genetics of Hypertension)**

Goals are: 1.) Conduct training and monitor quality control of the epidemiologic field. 2.) Collect BP related phenotypic data and DNA on 200 African-American sibships. 3.) Make available DNA from 3,500 persons of African descent. 4.) Initiate study of candidate genes involving the renin-angiotensin system and assay circulating hormone levels for the network. 5.) Oversee data management for the two field centers, and participate in the analysis of the epidemiologic data.

**(17) ROCHE MOLECULAR SYSTEMS (Genetic Determinant of Hypertension) Rotimi (PI)**

The goals of this project are to assist the research community in identifying the most important genetic markers for CVD. Of particular interest are those genes for which phenotypic measurements (e.g., protein levels or activity) are variable for any individual or generally difficult to measure. In addition, this project will develop a clinically informative panel of genetic markers for CVD. This panel will be used in conjunction with current serum cholesterol measurements. For an affected individual, this information may be used to determine the most effective treatment. For family members of an affected person, this information could be used to estimate genetic disposition to premature CVD and consequently suggest certain lifestyle precautions.

## **BIOGRAPHICAL SKETCH**

Charles Rotimi is an epidemiologist with substantial training in biochemistry, statistics and genomics. He is the Chief of the Metabolic, Cardiovascular and Inflammatory Disease Genomics Branch and the Director of the Trans-NIH Center for Research on Genomics and Global Health with the mission of advancing research into the role of culture, lifestyle, genetics and genomics in disease etiology, health disparities, and variable drug response. His lab develops genetic epidemiology models and conducts epidemiologic studies that explore the patterns and determinants of common complex diseases in human populations with particular emphasis on populations of the African Diaspora. His team published the first genome-wide scan for hypertension and blood pressure in African Americans and for type 2 diabetes in West Africans. His lab contributes to the global understanding of human genetic variation by actively participating in the development of international genomic resources including the HapMap, the 1000 Genome and the African Genome Variation Project. He is on the Executive and Scientific Committee for the International Federation of Human Genetics Societies and was recently elected to the Human Genome Organization (HUGO) Council. He is the founding president of the African Society of Human Genetics (AfSHG). Recently, he successfully led the establishment of the Human Heredity and Health in Africa (H3Africa) initiative with \$76 million commitment from the NIH and Wellcome Trust. H3Africa will create and support network of labs that will conduct leading-edge research into the genetic and environmental determinants of diseases in Africans. He is on the Editorial Board of Public Health Genomics, Genome Medicine, Clinical Genetics and Journal of Applied and Translational Genomics. He was recently awarded an Honorary Professorship at the Division of Human Genetics, Department of Clinical Laboratory Science, University of Cape Town, South Africa.

## **AWAKENING**

**Rise,  
Take your dream to the end of the street.  
Then stretch the street.  
Take it to the end of your dream.**

***Minted Coins*  
Okinba Launko**



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December 22, 2014

**Total number of peer reviewed manuscripts as of December 2014 is 228:** Dr. Rotimi has published in several leading peer reviewed journals including *Science*, *Nature*, *NEJM*, *Lancet*, *Nature Genetics*, *Nature Review Genetics*, *AJHG*, *PNAS*, *PLOS Genetics*, *Genome Biology*, *American Journal of Public Health*, *Epidemiology*, *Circulation* and *Hypertension*

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## **PRESENTATIONS AND ABSTRACTS – *locations of international presentations are bolded.***

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2. Cooper RS, Rotimi CN, Ataman SL for the ICASHIB investigators. The Prevalence of Obesity and NIDDM in Populations of African Origin: The International Collaborative Study of Hypertension in

Blacks (ICSHIB). Workshop on Prevention of Obesity: Populations at Risk, Etiologic Factors and Intervention Strategies (NIDDK, NIH): September 22-24, 1993

3. Rotimi CN, Cooper RS, Ward RH, Morrison L. The role of the angiotensinogen gene in human hypertension: Absence of an association among African Americans. *Genetic Epidemiol.* 1993; 10:339
4. Rotimi CN, Cooper RS, Sundarum CB, Cao G. Familial resemblance of cardiovascular disease risk factors among African Americans in the Chicago area. *Genetic Epidemiology* 1993; 10:340
5. Rotimi CN, Cooper RS. Health family study of persons of African origin. The fifth congress of the Pan-African Society of Cardiology in conjunction with 8<sup>th</sup> International Interdisciplinary Conference on Hypertension in Blacks. *International Society on Hypertension in Blacks: Cameroon*, April, 1993.
6. Cooper RS, Rotimi CN, Fraser H. Prevalence of hypertension and obesity in black populations: The international collaborative study of hypertension in blacks. *The American Society of Hypertension*, 1993
7. Ataman SL, Cooper R, Rotimi CN, McGee D: Quality control in a large epidemiologic survey: a case study. 1994 APHA Annual Meeting and Exhibition #2018 page 116.
8. Rotimi CN, Cooper R, Asuzu M et al: Ascertainment of major causes of mortality in an urban Nigerian community: The ICSHIB Study. 1994 APHA Annual Meeting and Exhibition.
9. RB Lipton, RS Cooper, C Rotimi, B Osotimehin, W Muna, H Fraser, D McGee. Obesity and its relationship with self-reported diabetes among peoples of the African diaspora. *American Diabetes Association*. January 1994
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11. Rotimi CN, Marcovina S, Schork N: Levels of Lp(a) and frequency of Apo(a) isoforms in Africans and African Americans: Environmental effects as estimated within and across populations. *Circulation* 1995; 91:31-p3.
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14. RS Cooper, CN Rotimi. Hypertension in populations of West African origin. *Am J Epidemiol* 1995; 141: S79
15. Prewitt TE, Luke A, Rotimi C, Cooper R, McGee D. Adiposity in black populations from diverse environments. *AHA* 1996.
16. Cooper RS, Rotimi CN, Ward R, Morrison L, Ogunbiyi O, Forrester T. Angiotensinogen microsatellites not associated with hypertension in US, Caribbean or West African populations. *Hypertension* 1996

17. Cooper RS, Rotimi CN, Luke A, Kaufman J. Is body fat the determinant of the obesity-blood pressure relationship? *Hypertension*, 1996
18. Cooper RS, Rotimi CN, Li Z, Ward R, Ogunbiyi O. Familial aggregation of blood pressure in a Nigeria population. *Hypertension*, 1996
19. Rotimi C, Cooper R, Owoaje E, Fraser H, Forrester T, Wilks R, Cruickshank K. The evolution of non-insulin-dependent diabetes mellitus risk among populations of the African diaspora. *Am J Epidemiol*, 1996
20. Rotimi CN, Cooper RS, Cao G, Li Z. Heritability of body mass index in a black population in a low risk environmental setting. *Genetic Epidemiology* 1996; 13:#17 305 (**Brazil**)
21. Rotimi CN, Heritability of plasma leptin in a population sample of African-American families. Sixth Annual meeting of the International Genetic Epidemiology Society, Baltimore, MD, October 1997
22. Prevalence of diabetes and impaired glucose tolerance in a Nigerian Community. Lagos, Benin, and Ibadan, **Nigeria**. June 5, 1997.
23. Rotimi CN. Genetic Epidemiology of Hypertension: Opportunities presented by populations of the African Diaspora. Human Biology, Salt Lake City, Utah - April, 1998.
24. Obesity in the United States. Maywood, IL, and Idere, Nigeria. April 28, 1998.
25. Rotimi CN, Genetic and Environmental determinants of hypertension: A review of findings from the International Collaborative Study of Hypertension in Blacks (ICSHIB). RCMI Symposium, Howard University, Washington, DC, March, 1998
26. Rotimi CN, Cooper RS, Cao G, Ogunbiyi O, Ladipo M, Owoaje E, Ward R. Maximum likelihood generalized heritability estimate of blood pressure among Nigerian families. Seventh Annual meeting of the International Genetic Epidemiology Society, **Arcachon, France**, September, 1998
27. Scientific meeting of the International Society of hypertension. **Amsterdam, Netherlands**. June 7-11 1998
28. American Diabetes Association. The 58<sup>th</sup> Annual Meeting and Scientific Sessions. McCormick Place, Chicago Illinois June 11-16, 1998
29. Rotimi CN. Genetics of hypertension. Nutritional Sciences Seminar, Spring –1999, University of Wisconsin-Madison
30. Broeckel U, Shiozawa M, Fallin D, Wick GS, Cooper RS, Rotimi CN, Nobrega M, Provoost AP, Schork NJ, Jacob HJ. Comparative Mapping and linkage disequilibrium of the rat RF-1 region identifies a haplotype associated with hypertensive end-stage renal disease in humans. *Genome Sequencing and Biology*, 1999.
31. Hypertension of Africans: Motherland to the Diaspora. **Toronto, Canada**. July 13, 1999.
32. Global Forum for Bioethics in Research. Bethesda, Maryland. November 7-10, 1999.



33. Bioethics and community-Based Research: Safeguarding the community (The Jackson Heart Study), May 2000.
34. Health Disparity – Attendee: A challenge and call to action for the new millennium Washington, DC, April 16 – 19, 2000.
35. First Community Consultation on Responsible Collection and Use of Samples for Genetic Research “Lessons to be Learned from International Experiences” September 25-26, 2000 (NIH - Bethesda Marriott Hotel, Maryland)
36. Genetics of complex diseases: An Hypertension Update. August 2000. University of Ibadan, **Ibadan, Nigeria**
37. Informed Consent in international Genetic Epidemiology. Chicago and Nigeria. October 19, 2000.
38. ELSI Human Genetic Variation RFA Consortium Meeting. Rockville, Maryland. October 24-25, 2000.
39. Association between Tumor Necrosis Factor-alpha (TNF- $\alpha$ ) and Correlates of Insulin Resistance in a Cohort of Type 2 Diabetic Patients from West Africa. International Diabetes Federation, Nov 2000, **Mexico City, Mexico**
40. In Search of susceptibility of genes for type 2 diabetes in West Africa: Ancestral Population of African Americans. American Society of Human Genetics workshop on West African Genetic Diversity, October 4, 2000, San Diego, CA
41. Ethnic Challenges in Genetic Epidemiological Research. The University of Texas, Southwestern Medical Center, Dallas, Texas. January 9, 2001.
42. Genetics Epidemiology of complex diseases: An update on the African Diaspora. U of Maryland: March, 2001
43. Howard University Family Study: A Community Awareness Meeting between Howard University Scientists and Elected Representatives from Washington, DC Neighborhoods Place: Genome Center. Date: February 23, 2001
44. Genetics of complex diseases: an update on the African Diaspora. John Hopkins School of Public Health. October 2001.
45. Ethical Challenges in Genetic Epidemiological Research. Decade of ELSI conference. Washington, D.C, January 13, 2001.
46. “In search of susceptibility genes for type 2 diabetes in West Africa”. Baltimore, Maryland. Feb 8, 2001.
47. Engaging the community in Biomedical Research. Washington, DC. February 23, 2001.
48. Epidemiology. Philadelphia, Pennsylvania. June 22-26, 2001.
49. Predictors of Diabetes. Philadelphia, Pennsylvania. June 22-26, 2001.

50. Environmental and Genetic Influences on Human Health. **Garmisch-Partenkirchen, Germany.** Sept 1-8, 2001.
51. International Genetic Environmental Epidemiology Society. **Munich, Germany.** September 2-4, 2001.
52. From Laboratory Investigation to Clinical Practice. **Quebec, Canada.** October 7-10, 2001.
53. Third Global Forum on Bioethics in Research. **The Gambia.** November 7-9, 2001.
54. Genetics of Type 2 diabetes – Fine-mapping of an informative genomic region on chromosome 20. University of Michigan. December, 2001
55. Third global forum on bioethics in research: 21 – 23 February 2002, Holiday Inn Cape Town Strand Street **Cape Town, South Africa**
56. Processes for collecting samples: Planning the First Large-Scale Phase of the Haplotype Map Project. Washington A Conference Room, Hyatt Regency Crystal City, Arlington, VA January 16, 2002
57. Informed consent and the concept of race in genetic epidemiology research. ELSI Genetic Variation RFA Consortium Meeting, January 22-23, 2002, Chevy Chase, MD
58. Exploring the Collection, Use and Analysis of Data on Race and Ethnicity in Genetic Research and Genetic Testing. Bethesda, Maryland. February 14, 2002.
59. “In search of type II diabetes genes in populations of the African Diaspora”. Atlanta, Georgia. May 3, 2002.
60. Collection, Use and Analysis of Data on Race and Ethnicity in Genetic Research (The Jackson Heart Study). Jackson, Ms. June 17, 2002.
61. “African Genealogy & Genetics: Looking Back to Move Forward”. Minneapolis, MN. June 21-22, 2002.
62. “Race, Ethnicity, Genetics, and Health Disparities”. Herndon, Virginia. August 7, 2002.
63. Planning Workshop on Relating Genetic Variation to Health and Disease. Bethesda, MD. Aug 2002.
64. Bioethics in Research. **Brasilia, Brazil.** October 29-30, 2002.
65. Symposium – Ethnicity and Epidemiology: Casting race in a new light (the role of genes): American College of Epidemiology Annual Scientific Sessions – September 22, 2002. Albuquerque, New Mexico
66. Genome search for genes underlying susceptibility resistance syndrome in Type 2 Diabetes Patients from West Africa. American Society of Human Genetics 2002; suppl 71 (4):498 (#1924).
67. Scanning the Genome for Obesity Susceptibility Genes in Type 2 Diabetes Patients from West Africa. American Society of Human Genetics 2002;suppl 71 (4):189 (#131)., October 15 -19, 2002
68. Calpain-10 Gene Polymorphisms and Type 2 Diabetes in West Africans. American Society of Human Genetics 2002; suppl 71 (4):477 (#1798).

69. A Genome Search for Type 2 Diabetes Susceptibility Genes in West Africans. American Society of Human Genetics 2002; suppl 71 (4):498 (#1923).
70. Marshall P. Adabamowo C. Royal C. Rotimi C. GENOMIC RESEARCH: Case Presentation: Community Engagement for the HapMap Project in Nigeria FOURTH GLOBAL FORUM ON BIOETHICS; **BRASILIA, BRAZIL**. 29 - 30 October 2002
71. Genome Wide Search for Hypertension Susceptibility Loci. Genetic Analysis Workshop (GAW); Nov 11-14, 2002, New Orleans.
72. Genome Scan for Obesity Genes in Type 2 Diabetes Patients from West Africa. International Genetic Epidemiology Society (IGES) Meeting. New Orleans November 14-16, 2002.
73. Rotimi CN, Royal C and Marshall P. Implementation of the Haplotype Mapping (HapMap) and the Genomic Research in the African Diaspora (GRAD) projects in Eldoret, Kenya; Ibadan, Nigeria; and Umtata, **South Africa**. January 05 – 28, 2003.
74. Chen G, Zhou J, Chen Y, Daniel H, Rotimi C. Genome wide search for blood pressure susceptibility loci in West African Type 2 diabetes patients.
75. Workshop: Haplotypes, Phenotypes, and the Human Genome: Practical Applications in The Evaluation and Elimination of Disparities. Meharry CRECD Health Disparities Course Second Session July 31 – August 2, 2003
76. Human Genetics: A facilitator or Hindrance in the Efforts to Eliminate Health Disparities. Meharry CRECD Health Disparities Course Second Session July 31 – August 2, 2003
77. Strategies and Lessons Learned in the Enrollment of African Americans in Large-Scale Genetic Epidemiology Studies The Yale-Howard Partnership Center on Reducing Health Disparities by Self and Family Management Yale University School of Nursing. Yale – July 10, 2003
78. Population Genetics and Ethnic Identity: Implications for Understanding Biomedical Research? “Discovering the Full Spectrum of Cardiovascular Disease Disparities – American Heart Association” Oct. 1–4, 2003 • Atlanta, GA
79. Genetics of Obesity in an African population. Presentation at the Mid-Atlantic Diabetes Research Symposium, NIH Clinical Center, Bethesda, MD September 20, 2003
80. “Haplotype Mapping (HapMap) Genomic Research in the African Diaspora (GRAD)”. **Eldoret, Kenya** Sept 2003.
81. Workshop on a Proposed American Family Study: “Participant protections ” NIH – Dec 1-3, 2003
82. The African Diaspora: An opportunity to study gene-environment interaction. The African Society of Human Genetics. The AFSHG – **Accra, Ghana**, December 8, 2003
83. A Critical Anthropology of Human Genetic Variation Research: Examining Scientific Practice; Refining Theories of Difference. Society of Medical Anthropology. Chicago. Nov 21, 2003

84. The African Diaspora: An opportunity to study gene-environment interaction in the Etiology of Type 2 Diabetes. Experimental Biology (FASEB) – Washington, DC, April 19, 2004
85. The International Haplotype Mapping (HapMap) Project – Nigeria. Workshop on the Ethics of Research Related to Healthcare in Developing Countries. Feb 12 – 14, 2004 (**Cape Town, South Africa**)
86. The International Haplotype Mapping (HapMap) Project Community Engagement with the Yoruba. Cambridge, UK. September 19-21 2004
87. Translational-Genomic Research in the African Diaspora (TGRIAD): “Gene-Environment Research in the African Diaspora: Implication for Disease Prevention and Treatment.” San Diego. August 1, 2004
88. The genetics of race, medicine, and drugs: Implications for Pharmacogenomics. Annual Scientific Meeting of the Association for Academic Minority Physicians. Oct 16, 2004
89. Understanding the Potential Role of Genetics in Eliminating Health Disparity. Seminar at NCMHD, Feb 16, 2005
90. “Large Population Studies: The Opportunities and Challenges ” Dichotomy Between Social Identity and Ancestry in Large Population Studies Secretary’s Advisory Committee on Genetics, Health, and Society February 28-March 1, 2005; North Bethesda, MD
91. Our evolutionary history and the mapping of complex disease loci. Southern African Society for Human Genetics/African Society of Human Genetics. Muldersdrift Gauteng, **South Africa**. March 16, 2005
92. The 15<sup>th</sup> Annual Public Health Awareness Conference. Morehouse College, Atlanta GA. April 5, 2005
93. Proposal for the Responsible Use of Racial & Ethnic Categories in Biomedical Research: Where Do We Go From Here?” University of Minnesota Law School. April 18, 2005
94. The Human Genome: Solving Problems While Creating Others. The 15th Annual Public Health Awareness Conference Public Health Sciences Institute, Morehouse College. April 2005
95. Spring Center for Genetic Medicine Silverstein Lectures. Northwestern University. May 9, 2005
96. Maintaining the Integrity of Research Data. Short Course in Clinical Research. University of Wisconsin. July 20, 2005
97. Identifying Susceptibility Genes for Diabetes: Implications for Public Health. The Office of Genomics and Disease Prevention, Center for Disease Control, Sept 30, 2005
98. Genes and Racial Health Disparity A Flawed Paradigm for Unraveling Population Health Disparities. Wayne State University President’s Conference on Health Disparities, Detroit, MI. October 10, 2005.
99. Using Genomic Tools to Identifying Susceptibility Genes for Type 2 Diabetes. Minority, Race, Genomics, and Health Inequities: What Are the Connections? Hunter College, City University of New York – December 2005
100. Genomics Tools and Complex Disease Research. Opportunities and Challenges Presented by Populations of the African Diaspora. **DeCode Genetics, Iceland**, February 11, 2006

101. Race and the New Genetics. Black History Month Celebration, Virginia Tech University, February 23-24, 2006
102. The Human Genome: Solving Problems While Creating Others. Black History Month Celebration. US Courts, Washington, DC, February 28, 2006
103. Our Evolutionary History and the Mapping of Complex Disease Loci. A lecture in the NIH staff training in extramural programs (STEP) - "Defining Race and Ethnicity in Biomedical and Behavioral Research: A Mini-Course on Biological, Social, Political and Legal Issues." April 18, 2006
104. Genetic Epidemiology of type 2 diabetes and related complications. Annual meeting of the African Society of Human Genetics. June 3-5, 2006 - **Addis Ababa, Ethiopia.**
105. Adeyemo A. Rotimi C. Family-based association analysis of specific SNPs with obesity in the Howard University Family Study: collaboration between the department of genetics and genomics, Boston University and the National Human Genome Center at Howard University. July 18-19, 2006
106. Vascular Matrix Summit Meeting. International Society on Hypertension in Blacks. 2006, New York
107. Roundtable, "Eliminating Disparities in Clinical Trials: Formulating Policies". Houston, TX, Sept 7, 2006
108. Rotimi C. Understanding the Genetic Basis of Type 2 Diabetes in Populations of the African Diaspora. Human Genetic Variation meeting September 15, 2006 – **Hong Kong**
109. Rotimi C. Mapping of Complex Disease Loci: The Africa America Diabetes Mellitus (AADM) Study. Wuhan University, **Wuhan, China**, September 2006.
110. Genetic Epidemiology of Complex Diseases in African American Families. NIH/NCRR Site Visit, Howard University GCRC, October 25, 2006
111. Confounding Issues: Design Strategies, Population Structure, Analysis Plan. NCI/NHGRI Working Group on Criteria for Replication of Genotype-Phenotype Association. Bethesda, MD, Nov 10, 2006
112. Frontiers in Genetics and Cardiovascular Disease: What is Known and Unknown? Association of Black Cardiologists. Chicago, IL, November 11, 2006
113. Ethnicity and Drug Prescribing: Changes Through Pharmacogenetics. American Heart Association. Chicago, IL, November 13, 2006
114. Ethics of Complex Diseases Research in Low-Resource Environment. December, 2006 **Abuja, Nigeria.**
115. Fine-mapping and Positional Cloning of Type 2 Diabetes Genes. December, 2006. **Ibadan, Nigeria**
116. Roundtable discussion of Diabetes/Obesity/Metabolic Syndrome Risk Projects at the Medical Center. Howard University General Clinical Research Center Research Development Workshop, Jan 11, 2007
117. Origin of Human Genetic Variation: Implications for Disease Distribution. (Conference Theme: Race – Are we so different?) A Project of the American Anthropological Association. March 2007. Virginia.

118. Human Genetic Variation and Differential Disease Distribution by Populations. Longviews Seminar series. A Howard/Hopkins Cancer Educational Activities. March 2007. Washington, DC
119. Racial and Ethnic Grouping in Pharmacogenomics: A facilitator or Hindrance to Personalized Medicine? (Conference theme: Race in the Age of Genomic Medicine: The Science and its Applications). April 2007; University of Cincinnati, Ohio.
120. Research Training Workshop on the enrolment, examination and processing of participants and biological samples for large-scale genetic epidemiology study for diabetes. May, 2007. **Ibadan, Nigeria**
121. Genetic Epidemiology of type 2 diabetes in Africa. The Pan African Society of Cardiology and the Kenya Cardiac Society. May 13-16, 2007. **Nairobi Kenya.**
122. Complex Disease Genomics: Opportunities presented by populations of the African Diaspora. Coriell Institutes for Biomedical Research. August 2007; Camden, New Jersey
123. NHLBI Expert Panel on Human Whole-Genome DNA Resequencing. NIH Bethesda. August 2007
124. Genetics of type 2 diabetes in Africa. The African Society of Human Genetics. November 3-5, 2007. **Cairo, Egypt.**
125. Is Inequality Making Us Sick? Leadership Greater Washington Class of 2008 Health Day, Bethesda, MD, April 10, 2008
126. Translating Ethical, Legal and Social Implications of Genomics Research International Conference, Cleveland, OH, May1-3, 2008
127. A common FTO gene variant is associated with type 2 diabetes in West Africans. American Diabetes Association Conference. San Francisco, CA, June 6-10, 2008
128. Novel candidate genes for type 2 diabetes on chromosome 5 identified in West Africans. American Diabetes Association Conference. San Francisco, CA, June 6-10, 2008
129. A Novel Common Susceptibility Variant in the ALDH7A1 Gene is Significantly Associated with Obesity in West Africans. American Diabetes Association Conference. San Francisco, CA, June 6-10, 2008
130. Anticipating Personalized Medicine: A Roundtable Discussion. American Association for the Advancement of Science (AAAS) June 20, 2008, Washington, DC
131. Human Genetics: A facilitator or Hindrance in the Efforts to Eliminate Health Disparities Bethesda, NHLBI, June 23, 2008
132. Use of Genetics in Risk Assessment in Diabetes. ADA. Arlington, VA. August 15, 2008
133. Genomics and Health Disparities – Is It All in the Genes? – American College of Epidemiology Conference, Tucson, Arizona, September 13-16, 2008
134. Genetics of Diabetes. Understanding the Role of Genomics in Health Disparities: Toward a New Research Agenda meeting. University of Maryland, September 24-26, 2008

135. Health Disparities: Is Genomics a piece of the puzzle? Who are We? Kinship, Ancestry and Social Identity workshop. Cold Spring Harbor Laboratory, October 6-9, 2008
136. Genomics and Health Disparities: Opportunity to describe our similarities and differences without reaffirming old prejudices. NIH Festival, Bethesda Maryland October, 2008
137. National Human Genome Research Institute (NHGRI) 2008 Retreat. October 20-21, 2008. Gettysburg, PA. Poster presentation: Population differentiation in genetic variants associated with complex human diseases (Adebowale Adeyemo & Charles Rotimi)
138. Opportunities for strengthening the research enterprise in sub Saharan Africa. NIH Bethesda MD November 5-6, 2008
139. Understanding Differential Susceptibility to Disease and Variable Drug response in populations and individuals. 11th RCMI International Symposium on Health Disparities. Hawaii, December 2008.
140. Understanding the Role of Gene-Environment Interactions in Eliminating Health Disparities NIH Summit – The Science of Eliminating Health Disparities. December 17, 2008; Maryland.
141. Colloquim on developing a global framework for harmonized approaches to data sharing and assurance of reciprocal benefits in genomic research. Georgetown University, January 7-8, 2009
142. CDC/NHLBI RuSH Steering Committee meeting for the development of a national registry and surveillance system on hemoglobinopathies. January 13-14, 2009
143. Coriell Institute's Black History Month Celebration on Personalized Medicine for Black America on the topic " Racial and Ethnic Grouping in Pharmacogenomics: A facilitator or hindrance to Personalized Medicine. February 11, 2009
144. Genetics, Genomics and Complex Disease in Admixed Populations: Lessons from an African American Population. The 6<sup>th</sup> meeting of the African Society of Human Genetics, **Yaoundé, Cameroon**. March 12-15, 2009)
145. Welcome Trust and NIH Genetic Diversity in Health and Disease in African Population. March 15-16, 2009. **Yaounde, Cameroon**
146. Informational Strategies for Translating Genome-based Knowledge into Health Benefits. ACCESS to eHealth Conference. NIH National Library of Medicine. June 16, 2009
147. Developing admixture mapping panels for African Americans from commercial high density SNP chips. International Genetic Epidemiology Society (IGES) Conference. Kahuku, Hawaii. October 18-20, 2009
148. Practical Consideration for Imputation of Untyped Markers in Admixed Populations. International Genetics Epidemiology Society (IGES) Conference. Kahuku, Hawaii. October 18-20, 2009
149. Comprehensive evaluation of FTO genetic variation shows associations with obesity in two populations of African origin. American Society of Human Genetics. Honolulu, Hawaii. October 21, 2009

150. Transferability and Fine-Mapping of Genome-wide Associated Loci for Adult Height across Human Populations. American Society of Human Genetics. Honolulu, Hawaii. October 21, 2009
151. Genome-wide association study identified novel susceptibility loci for Adiponectin in a population-based cohort of African Americans. American Society of Human Genetics. Honolulu, Hawaii October 22, 2009
152. Genome-wide association study identified novel susceptibility loci for type 2 diabetes and related traits in a cohort of African Americans. American Society of Human Genetics. Honolulu, Hawaii, October 22, 2009.
153. Engaging African Scientists in the Genomic Revolution to Ensure that Tomorrow's Biotechnology and Medicine will Work for African People. Joint ISCB Africa ASBCB Conference. Bamako, Mali. November 30, 2009.
154. Health Disparities in the Genomic Era: What are we learning? Department of Molecular Physiology and Biophysics department seminar series at Vanderbilt University School of Medicine. January 13, 2010.
155. Population Differences in Disease Distribution and Variable Drug Response in the Genomic Era: What are We Learning? National Institutes on Aging, NIH. Baltimore, MD, February 26, 2010.
156. MYH9 and Kidney Disease: Race, Genetics, and Public Health— A Geneticist's View. NIDDK/NIH Bethesda Maryland; April, 2010.
157. Opportunities and Challenges in using individual and group ancestry in genomic research. University of Pennsylvania, USA. May 2010.
158. Race/Ethnicity and Genetics: Defining the population to be studied and the interpretation of group/population genomic data. NHGRI/NIH, Science Reporters Workshop, Bethesda, USA May 2010
159. Public Health in era of Genome-based & Personalized Medicine. Public Health in the 21st Century: Invitation to a meeting of invited experts, Ickworth House May 2010, **Cambridge UK**
160. Genetic diversity and health: Opportunities and challenges presented by African genomes. May 2010; HUGO Human Genome Meeting 2010, **Montpellier, France** May 18-21, 2010.
161. Genomics (Biotechnology) and the Developing World – Africa. HUGO Human Genome Meeting 2010, **Montpellier, France** May 18-21, 2010.
162. Advances in Health Disparities Genetic Research. National Medical Association annual conference. July 2010; Florida
163. The Genetics of race and disease: How important is race? 2010 George Town University
164. Morehouse School of Medicine Cardiovascular Lecture Series, September 6-7, 2010
165. Human Heredity and Health in Africa (H<sup>3</sup>Africa). **Oxford, UK** – August 2010
166. History, Vision, and Conceptual Framework for H3Africa. Cape Town, **South Africa** – March 3-5, 2011



167. Global and Regional Initiatives – Pan Asian Personal Genomics Initiatives: the H3Africa Genomic Initiative. The Human Genome Meeting (HUGO) 2011; **Dubai** March 14-17.
168. Building Research Capacity and Collaboration in Global Mental Health. Sponsored by the Office for Research on Disparities and Global Mental Health, NIMH. Bethesda, March 2011.
169. Genomics and African Tissue Banks. Teaching Skills in International Research Ethics Workshop, Indiana University Center for Bioethics. April 12-13, 2011
170. Genetic diversity and health: Opportunities and challenges presented by African genomes. Howard University College of Medicine, Dean's Interdisciplinary conference. April 18, 2011
171. Network of Minority Research Investigators (NMRI) Workshop, April 21, 2011
172. The Global Landscape of Disparity in Diabetes and Obesity. Novartis Institutes for Biomedical Research Health Equity Symposium, Cambridge, MA, May 3-4, 2011
173. Genes and environment: Does one size fit all? NINDS Neuroscience health disparities seminar series. June 10, 2011
174. Public Health Genetic Variation Studies and Implications for Health Disparities Research. National Institute on Minority Health and Health Disparities Translational Health Disparities Course Series, June 22, 2011.
175. A new era beckons – Genomic Research in Africa and the H3 Africa Project. International Principles and Practice of Clinical Cancer Research course, **Abuja Nigeria**, July 13-20, 2011
176. Ancestry, Race and Health: What are we learning in the genomic era? National Hispanic Science Network on Drug Abuse eleventh annual conference, Coral Gables, FL. August 24-26, 2011.
177. Ethical issues in international genomics research collaborations: Perspectives from Sub-Saharan Africa. 12th International Congress of Human Genetics/61st ASHG annual meeting in **Montreal, Canada**. October 11-15, 2011
178. Understanding Population Differences in Disease Distribution in the Genomic Era. International course on “Genetics Diseases and Human Populations”, **Santiago, Chile**. October 24-28, 2011
179. Conceptual Framework of the Human Heredity and Health in Africa (H3Africa) Project. Conference on Ethics of Genomics Research in Africa. **Abuja, Nigeria**, November 27-29, 2011
180. Genetics, Environment and Health Disparities among African Americans. Keystone Symposia joint session on Genetic and Molecular Basis of Obesity and Body Weight Regulation/Pathogenesis of Diabetes: Emerging insights into Molecular Mechanism. January 29, 2012, Santa Fe, New Mexico
181. The Genetics of the People of Africa and the Transatlantic Africa Diaspora. UNC Chapel Hill, March 19-20, 2012
182. Ancestry, Race and Health in the Genomic Era. Grand Rounds for the Department of Epidemiology and Public Health, University of Miami. May 30, 2012

183. Will Genomics Widen or Help Heal the Schism between Medicine and Public Health? *Why We Can't Wait: Conference to Eliminate Health Disparities in Genomic Medicine*. Miami, FL, May 31 2012
184. The Importance of Studying Ancestral Populations of Admixed Populations. *Why We Can't Wait: Conference to Eliminate Health Disparities in Genomic Medicine*. Miami, FL, May 31-June 1, 2012
185. Transferability of Genetic Risk Loci for Type 2 Diabetes to African Americans. American Diabetes Association 72<sup>nd</sup> Scientific Session, Philadelphia, PA. June 8-12, 2012
186. Second Global Diabetes Summit. Ohio State University, Columbus, OH. November 14-17, 2012
187. Genome Science and Health Disparities: A Growing Success Story? University of Washington, Department of Genome Sciences. Seattle, Washington. April 3, 2013
188. Health Disparities in the Dawn of Genomic Science: Opportunities and Challenges. University of Alabama, Birmingham, Alabama August 2013
189. University of Texas at Austin. Working group on race, health disparities and medical education. September 23-24, 2013
190. A new Era beckons – Genomics Research in Africa. The Human Heredity and Health in Africa (H3Africa). African Studies Association. Baltimore, Maryland. November 2013
191. Social and genomic aspects of a neglected tropical disease: podoconiosis. African Leadership Academy Workshop, Washington, DC, January 11, 2014.
192. 2<sup>nd</sup> African Diabetes Congress. The design of the Africa America Diabetes Mellitus (AADM) Study: A genetic epidemiology resource for diabetes. Yaoundé, Cameroon, February 25-28, 2014
193. Ancestry, Race and Health Disparities in the Dawn of Genomic Science. Invited talk – United States of America Food and Drug Administration (FDA). Maryland Campus, 2014
194. Symposium on the Future of Race and Science (Using Race in Research and Biotechnologies), April 2014, University of Pennsylvania, Philadelphia, USA.
195. Ancestry and health disparities in the genomic era: what are we learning? Invited Plenary Talk. Human Genome Organization Annual International Conference, April 2014, **Geneva, Switzerland**.
196. 2014 NIMHD Translational Health Disparities Course. Bethesda, Maryland.
197. Human Heredity and Health in Africa (H3Africa): *Why We Can't Wait: Conference to Eliminate Health Disparities in Genomic Medicine – the Role of Policy*. September 2014, Washington, DC

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