

## CURRICULUM VITAE

### **PERSONAL INFORMATION:**

Name: Folami Y. Ideraabdullah, Ph.D.

Work Address: University of North Carolina at Chapel Hill,  
Nutrition Research Institute,  
500 Laureate Drive, Room 2103  
Kannapolis, NC 28081  
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Concord, NC 28025  
Phone: (919) 619-3216

### **EDUCATION:**

2007 – 2012 Postdoctoral training, University of Pennsylvania, Philadelphia, PA  
2002 – 2007 Ph.D Genetics and Molecular Biology, University of North Carolina at Chapel Hill, Chapel Hill, NC  
1997 – 2001 B.S in Biology (Genetics option), Pennsylvania State University, University Park, PA

### **PROFESSIONAL EXPERIENCE:**

#### *EMPLOYMENT HISTORY*

- 11/2013-present **Assistant Professor**, Department of Nutrition (secondary), Gillings School of Global Public Health, University of North Carolina at Chapel Hill, NC
- Genetic basis of epigenetic response to environment
- 1/2013-present **Assistant Professor**, Department of Genetics (primary), School of Medicine, University of North Carolina at Chapel Hill, NC
- Genetic basis of epigenetic response to environment
- 7/2007-12/2012 **Postdoctoral Researcher**, Dr. Marisa Bartolomei's laboratory, University of Pennsylvania, Philadelphia, PA
- Mouse models of human imprinting disorders
- 8/2003 –7/2007 **Graduate Research Assistant**, Dr. Fernando Pardo-Manuel de Villena's laboratory, University of North Carolina at Chapel Hill, Chapel Hill, NC
- Genetic diversity among inbred mouse strains
  - Mapping loci responsible for parent of origin dependent phenotypes
- 1/2001-1/2002 **Undergraduate Research Assistant**, Dr. Andrew Clark's laboratory, Pennsylvania State University, University Park, PA
- Genetic interactions in the *Drosophila* innate immune response pathway
- 1999 & 2000 **Summer Undergraduate Research Intern**, Dr. Mary Galinski's & Dr. John Barnwell's laboratories, Center for Disease Control (CDC) & Emory University, Atlanta, GA
- Genetic diversity among species of the malaria parasite, *Plasmodium*

#### Professional Societies

- 2016 - Genetics Society of America (GSA)  
2015 – International Society for Developmental Origins of Health and Disease  
2014 – American Society for Nutrition (ASN)  
2013 – Society of Toxicology (SOT)  
2013 – 2015 American Society for Biochemistry and Molecular Biology (ASBMB)  
2012 – 2014 The Endocrine Society  
2012 – 2015 American Society of Andrology (ASA)  
2011 – Association for Women in Science (AWIS)  
2003 – International Mammalian Genome Society (IMGS)

## **HONORS & AWARDS:**

- 2015 University Research Council Award, University of North Carolina, Chapel Hill, NC  
2014 IBM Junior Faculty Development Award, University of North Carolina, Chapel Hill, NC  
2010 – 2011 Mentored Scientist Transition Award, Center of Excellence in Environmental Toxicology (P30 NIH-NIEHS), University of Pennsylvania, Philadelphia, PA  
2011 FASEB-MARC Travel Award - GSA Mouse Genetics Meeting, Washington, DC  
2009 Carl Storm Underrepresented Minority Fellowship - Gordon Research Conference  
2008 - 2010 Ruth L. Kirschstein National Research Service Award (F32), NIGMS, NIH  
2006 Sarah Graham Kenan/ Edwards-Hobgood Dissertation Fellowship, University of North Carolina, Chapel Hill, NC  
2004 – 2006 International Mouse Genome Conference Scholarship Recipient  
2002 - 2003 University Merit Assistantship, University of North Carolina, Chapel Hill, NC

## **BIBLIOGRAPHY:**

### *BOOKS & CHAPTERS*

*Dissertation:* **Ideraabdullah FY**. The genetic architecture of the DDK syndrome: an early embryonic lethal phenotype in the mouse. University of North Carolina at Chapel Hill, 2007, 150 pages, 3257597.

### *PAPERS/ARTICLES* (\*co-first authors)

1. Ferguson JF, Bennett BJ, Allayee H, Gerszten RE, Hazen SL, **Ideraabdullah FY**, Kris-Etherton PM, Ordovas JM, Rimm EB, Wang TJ. Nutrigenomics, the microbiome, and gene-environment interactions: new directions in cardiovascular disease research, prevention, and treatment. A Scientific Statement from the American Heart Association. (*Epub. 2016*)
2. Xue J, and **Ideraabdullah FY**. An assessment of molecular pathways of obesity susceptible to nutrient, toxicant and genetically induced epigenetic perturbation. *Jour of Nutr Biochem.* 2016 April. 30: 1-13 (Epub 2015 Oct)
3. **Ideraabdullah FY**, Thorvaldsen JL, Myers JA, Bartolomei MS. Tissue specific insulator function at *H19/Igf2* revealed by deletions at the imprinting control region. *Hum Mol Genet.* 2014 Jul 2. pii: ddu344. [Epub]. PMID: 24990148
4. Oakes JL, **Ideraabdullah FY**. Maternal nutrition and epigenetic perturbation: modeling trends to translation. *Current Pediatrics Reports*, 2013 July; 10.1007/s40124-013-0025-5
5. **Ideraabdullah FY**, Bartolomei MS. ZFP57: KAPturing DNA methylation at imprinted loci. *Molecular Cell*, 2011 Nov; 4:44(3):341-2.
6. **Ideraabdullah FY\***, Abramowitz LK\*, Thorvaldsen JL, Krapp C, Wen SC, Engel N, Bartolomei MS. Novel *cis*-regulatory function in ICR-mediated imprinted repression of *H19*. *Developmental Biology*, 2011 Jul 15;355(2):349-57.
7. **Ideraabdullah FY**, Vigneau S, Bartolomei MS. Genomic imprinting mechanisms in mammals. *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis*, 2008 Dec; 647(1-2):77-85.
8. **Ideraabdullah FY**, Kim K, Pomp D, Moran JL, Beier D, Pardo-Manuel de Villena F. Rescue of the mouse DDK syndrome by parent-of-origin dependent modifiers. *Biology of Reproduction*, 2007 Oct;76:286-293.
9. **Ideraabdullah FY\***, **Bell TA\***, **de la Casa-Esperon E\***, **Doherty HE\***, Kim K, Wang Y, Lange L, Wilhemsem K, Lange E, Sapienza C, Pardo-Manuel de Villena F. The paternal gene of the DDK syndrome maps to the *Schlafen* gene cluster on mouse chromosome 11. *Genetics*, 2006 Jan;172:411-423.
10. Kim K, Thomas S, Howard I, Bell TA, Doherty HE, **Ideraabdullah FY**, Detwiler DA, Pardo-Manuel de Villena F. Meiotic drive at the *Om* locus in wild derived mouse inbred strains. *The Biol. J. of the Linnean Society*, 2005 84: 487-492. (Journal is not indexed in pubmed)
11. **Ideraabdullah FY\***, De la Casa-Esperon E\*, Bell TA\*, Detwiler DA, Magnuson T, Sapienza C, Pardo-Manuel de Villena F. Extraordinary levels of genetic and haplotype diversity in mice. *Genome Research*, 2004 Oct;14:1880-1887.
12. Rayner JC, Corredor V, Feldman D, Ingravallo P, **Ideraabdullah F**, Galinski MR, Barnwell JW. Extensive polymorphism in the *Plasmodium vivax* merozoite surface coat protein MSP-3alpha is limited to specific domains. *Parasitology*, 2002 Nov;125:393-405. (Name misspelled in pubmed “Iderabdullah”)

### INVITED PRESENTATIONS

- “Characterizing offspring epigenetic consequences of maternal environment”. Annual NCRC Catalyst Symposium, Kannapolis, NC (2016)
- “Characterizing the role of epigenetic mechanisms in developmental origins of health and disease”. North Carolina State University, Toxicology seminar series, Raleigh, NC (2016)
- “Characterizing the role of gene-nutrient interactions required for normal epigenetic reprogramming”. Gene-Reg Seminar series, DHMRI, Kannapolis, NC (2015)
- “Dissecting mechanisms of epigenetic inheritance using mouse models”. Genetics and Environmental Mutagenesis Fall symposium, RTP, NC (2015)
- “Epigenetic heritability – role of environment and genetics”. UNC-Charlotte Center for Biomedical Engineering and Science Annual Retreat, Charlotte, NC (2015)
- “For Better or For Worse Consequences of Living with Chemicals”. Catawba College Center for the Environment, Catawba, NC. (2014)
- “Identifying genetic determinants of epigenetic disease susceptibility”. UNC-CH Curriculum in Toxicology, Chapel Hill, NC (2014)
- “Searching for Genetic Determinants of Epigenetic Dysregulation.” Keynote lecture – UNC-CH REU in Molecular Biosciences, SPIRE, SOLAR, and Partners NC, Chapel Hill, NC
- “Underrepresented Minority postdoc challenges and successes.” University of Pennsylvania Diversity Symposium, Promoting diversity in academics, Philadelphia, PA (2013)
- “Identifying heritable mechanisms of epigenetic response to environment.” NIEHS Laboratory of Reproductive and developmental toxicology, Research Triangle Park, NC (2013)
- “Epigenetic response to endocrine disrupting compounds, a genetic approach.” Gordon Research Conference on Cellular & Molecular mechanisms of Toxicology, Proctor Academy, Andover, NH (2013)
- “Epigenetic effects of early nutrition.” University of North Carolina at Chapel Hill Nutrition Research Institute, Kannapolis Scholars annual symposium, UNC-CH NRI, Kannapolis, NC (2013)
- “Heritable effects of diet: Becoming what our parents eat.” University of North Carolina at Chapel Hill Nutrition Research Institute, Appetite for Life seminar, UNC-CH NRI, Kannapolis, NC (2013)
- “The role of genetic mutation in susceptibility to environmental insult.” Environmental Endocrine Disruptors, Gordon Research Seminar (GRS), West Dover, VT (2012)
- “The role of the endocrine disrupting compound vinclozolin in genomic imprinting.” Center of Excellence in Environmental Toxicology Annual Symposium, Radnor, PA (2011)
- “Parent-of-origin dependent rescue of the DDK Syndrome: An early embryonic lethal phenotype in the mouse”. International Mammalian Genome Conference. Charleston, SC (2006)
- “Determining expression levels of genes involved in the *Drosophila* innate immune response”. Summer Research Opportunities Program Symposium. Pennsylvania State University, University Park, PA (2002)

### OTHER ORAL PRESENTATIONS

- “Understanding environmental perturbation of developmentally relevant epigenetic mechanisms”. Carolina Chromatin Consortium, Chapel Hill, NC (2015)
- “Using mouse models to determine genetic influences on epigenetic states.” UNC-CH Genetics Department Seminar Series, Chapel Hill, NC (2013)
- “Mouse models of epigenetic stability.” UNC-CH Genetics and Molecular Biology Program Retreat, Myrtle Beach, SC (2013)
- “Characterizing the genetic basis of epigenetic response to environment.” Center of Excellence in Environmental Toxicology, University of Pennsylvania, Philadelphia, PA (2012)
- “Resolving the epigenetic regulatory mechanism of ICR-mediated imprinting at *H19/Igf2*.” Epigenetic Meeting, University of Pennsylvania, Philadelphia, PA (2011)
- “The mechanism of *H19/Igf2* imprinting: Resolving a new degree of complexity.” Developmental Biology Training Grant Annual Retreat, University of Pennsylvania, Philadelphia, PA (2011)
- “Dissecting the regulatory mechanism of the *H19/Igf2* imprinting control region (ICR).” Department of Genetics Seminar Series. University of Pennsylvania, Philadelphia, PA (2010)
- “Dissecting the regulatory mechanism of the *H19/Igf2* imprinting control region (ICR).” Epigenetics Collaborative Retreat. University of Pennsylvania, Philadelphia, PA (2010)
- “Timing and Mode of Rescue of the DDK Syndrome Early Embryonic Lethal Phenotype”. Department of Genetics

Seminar Series. University of North Carolina, Chapel Hill, NC (2006)

- “A Modifier Locus on Chromosome 13 Rescues a Complex Embryonic Lethal Phenotype in the Mouse.” Curriculum in Genetics and Molecular Biology Seminar Series. University of North Carolina, Chapel Hill, NC (2006)
- “The genetic architecture of the DDK syndrome: A parent-of-origin early embryonic lethal phenotype in the mouse”. Developmental Biology Symposium, University of North Carolina. Chapel Hill, NC (2006)
- “The *Imod1* locus on Chromosome 13 rescues a complex embryonic lethal phenotype in mouse.” Department of Genetics and Curriculum in Genetics Annual Retreat. Wilmington, NC (2005)
- “A Search for Dominant Modifiers of the DDK Syndrome.” Department of Genetics Seminar Series. University of North Carolina, Chapel Hill, NC (2005)
- “A Search for Dominant Modifiers of the DDK Syndrome.” Curriculum in Genetics and Molecular Biology Series. University of North Carolina, Chapel Hill (2005)
- “GO WILD: Demonstrating extraordinary levels of genetic diversity in inbred mouse strains.” Department of Genetics Seminar Series, University of North Carolina. Chapel Hill, NC (2004)
- “Exploring Genetic Diversity in Wild Derived Inbred Mouse Strains”. Curriculum in Genetics and Molecular Biology Symposium, University of North Carolina. Chapel Hill, NC (2003)
- “Determining Expression Levels of Genes involved in the *Drosophila* Innate Immune Response”. Summer Research Opportunities Program Symposium. Pennsylvania State University, University Park, PA (2001)

#### POSTER PRESENTATIONS

- “The role of genetic mutation in susceptibility to environmental insult.” Environmental Endocrine Disruptors, Gordon Research Seminar & Conference (GRS & GRC), West Dover, VT (2012)
- “The role of genetic mutation in susceptibility to environmental insult.” Center of Excellence in Environmental Toxicology Annual Symposium, Radnor, PA (2012)
- “Tissue specific enhancer activity mediated by the *H19/Igf2* imprinting control region, Center for Research on Reproduction and Women’s Health (CRRWH), Philadelphia, PA (2012)
- “Characterizing *cis*-regulatory elements at the imprinted *H19/Igf2* locus.” IMGC. Washington, DC (2011)
- “Identifying *cis*-regulatory elements at the imprinted *H19/Igf2* locus.” Epigenetics and Inst. for Regenerative Medicine. University of Pennsylvania, Philadelphia, PA (2010)
- “Role of CTCF spacing in imprinting regulation at the *H19/Igf2* locus.” Biomedical Postdoctoral Symposium. University of Pennsylvania, Philadelphia, PA (2009)
- “Role of CTCF spacing in imprinting regulation at the *H19/Igf2* locus.” Gordon Conference - Mammalian Gametogenesis and Embryogenesis. Waterville, NH (2009)
- “The DDK syndrome is rescued by a parent-of-origin dependent maternal effect.” Developmental Biology Spring Symposium. University of North Carolina at Chapel Hill, NC (2007)
- “Parent-of-origin dependent rescue of the DDK Syndrome: An early embryonic lethal phenotype in the mouse”. International Mammalian Genome Conference (IMGC), Charleston, SC (2006)
- “Parent-of-origin dependent rescue of the DDK Syndrome: An early embryonic lethal phenotype in the mouse”. NIH Graduate Student Research Festival. National Institutes of Health (NIH), Bethesda, MD (2006)
- “Parent-of-origin dependent rescue of the DDK Syndrome: An early embryonic lethal phenotype in the mouse”. Department of Genetics & Curric. in Genetics and Molecular Biology annual retreat. Wilmington, NC (2006)
- “The Genetic Architecture of the DDK Syndrome: A parent-of-origin early embryonic lethal phenotype in the mouse”. Complex Trait Consortium. University of North Carolina, Chapel Hill, NC (2006)
- “*Imod1*: An Imprinted Locus on Chromosome 13 Rescues a Complex Embryonic Lethal Phenotype in the Mouse”. International Mouse Genome Conference. Strasbourg, France (2005)
- “Modifiers of the DDK Syndrome Skew Allelic Exclusion Choice”. Developmental Biology Spring Symposium. University of North Carolina, Chapel Hill, NC (2005)
- “Modifiers of the DDK Syndrome Skew Allelic Exclusion Choice”. International Mouse Genome Conference. Seattle, WA (2004)
- “Modifiers of the DDK Syndrome Skew Allelic Exclusion Choice”. UNC Department of Genetics and Duke University Cell and Molecular Biology Annual Retreat. Wilmington, NC (2004)
- “Exploring Genetic Diversity in Wild Derived Inbred Mouse Strains”. Curriculum in Genetics and Molecular Biology Annual Symposium. University of North Carolina, Chapel Hill, NC (2004)
- “Exploring Genetic Diversity in Wild Derived Inbred Mouse Strains”. UNC Department of Genetics and Duke University Cell and Molecular Biology Retreat. Pinehurst, NC (2003)

“Targeted Deletion of the Lipoxygenase Gene Clusters in the Mouse”. Curriculum in Genetics and Molecular Biology Annual Symposium. University of North Carolina, Chapel Hill, NC (2003)

## **TEACHING ACTIVITIES**

### *GRADUATE COURSES*

- 2015-present Co-Instructor, GNET 646 Principles and Experimental Approaches of Mammalian Genetics (9 students)
- 2013 Guest Lecturer, NUTR862-001 Epigenetics in Nutrition (8 students)

### *WORKSHOPS*

- 2015 Speaker/Panelist, ASBMB Grant writing workshop, Washington, DC (~40 postdocs & assistant professors)
- 2014 Speaker/Panelist, “Data Analysis Workshop” UNC NRI Catalyst group, Kannapolis, NC (~15 students & postdocs)

### *LAB/RESEARCH TEACHING/MENTORING*

#### *Postdoctoral researchers*

- Kanika Kanchan, PhD (2016 – present)
- Jing Xue, PhD (2014 – present)
- Judy Oakes, PhD (2013-2015)

#### *Graduate students*

- Anandita Pal, Nutrition PhD student, (2015 – present)
- Mitra Hariri, visiting PhD student (2015 – present)
- Chelsea Nehler, Psychology PhD candidate (summer 2013)
- Stella Hur, PhD candidate, Dr. Marisa Bartolomei’s laboratory (2012)
- Kate Palozola, PhD candidate, Dr. Marisa Bartolomei’s laboratory (2011)
- Andrea Freschi, PhD candidate, Dr. Marisa Bartolomei’s laboratory (2010-2011)
- Lara Abramowitz, PhD candidate, Dr. Marisa Bartolomei’s laboratory (2008-2011)

#### *Undergraduate students*

- Marwa Elnagheeb, postgraduate summer intern (2015 - present)
- Edward Pietryk, postgraduate summer intern (2015 - present)
- Joshua Baulch, Highpoint University summer intern (summer 2015)
- Katherine Shumaker, Catawba College summer intern (summer 2015)
- Whitney Miller, Rowan Cabarrus Community College intern (spring 2015)
- Lisa Baucom, Rowan Cabarrus Community College intern (spring 2015)
- Cayce Finger, Rowan Cabarrus Community College intern (2014)
- Hanna Pless, UNC Chapel Hill summer intern (summer 2013)
- Janet Sung, UPenn undergraduate intern, Dr. Marisa Bartolomei’s laboratory (2009- 2011)
- Sherry Wen, UPenn undergraduate intern, Dr. Marisa Bartolomei’s laboratory (2007- 2007)

#### *High school students*

- Andrei Niculescu High School research Intern, (summer 2014)
- Andrew Wu, High School research Intern, Dr. Marisa Bartolomei’s laboratory (summer 2009)

### *GRADUATE COMMITTEES*

- Patricia Vigneau, Curriculum in Genetics and Molecular Biology PhD student (2015 – present)
- Rachael McMullen, Curriculum in Genetics and Molecular Biology PhD student (2015 – present)
- Megan Schertzer, Curriculum in Genetics and Molecular Biology PhD student (2015 – present)
- Daniel Lupu, Nutrition Department PhD student (2015 – present)
- Amelia Clayshulte, Curriculum in Genetics and Molecular Biology PhD student (2016 – present)

## **PROFESSIONAL SERVICE**

### *TO DISCIPLINE*

- 2015 – present Session leader & speaker, UNC Nutrition Research Institute Nutrigenetics Short Course

- 2015 – present Editorial board member, Environmental Epigenetics  
2014 – present Editorial Board member, Journal of Nutritional Biochemistry  
2014 – present Adhoc reviewer, Genes and Genomes journal  
2014 – present Adhoc reviewer, Nutrition reviews  
2013 – present Adhoc reviewer, FASEB journal  
2011 - present Adhoc National Conference Abstract Reviewer, ABRCMS  
2015 Panelist, ASBMB Grant writing workshop, Washington, DC  
2014 – 2015 Co-Organizer & Session leader, 9<sup>th</sup> Congress of the International Society of Nutrigenetics/  
Nutrigenomics, Chapel Hill, NC  
2012 – 2014 Chair, 2014 Gordon Research Seminar, Environmental Endocrine Disruptors, Tuscany, Italy  
2010 - 2012 Graduate student mentor, Scientific Mentoring Initiative (SMI) program, Biomedical Postdoctoral  
Council Diversity Committee, University of Pennsylvania, Philadelphia, PA  
2007 - 2012 Scienceteer (Science Mentor), IPRAXIS, Philadelphia, PA  
2010 - 2012 Scientific Mentoring Initiative (SMI) (co-founder), Biomedical Postdoctoral Council Diversity  
Committee, University of Pennsylvania, Philadelphia, PA  
2011 Facilitator, Women in Science (AWIS) Day, Da Vinci Science Center, Allentown, PA  
2010 Science Fair Judge, Shiloh science fair, Chester  
2008 – 2009 Co-Chair, Diversity committee, Biomedical Postdoctoral Council Diversity Committee, University of  
Pennsylvania, Philadelphia, PA  
2008 – 2009 Chair, Social Committee, Biomedical Postdoctoral Council, University of Pennsylvania,  
Philadelphia, PA  
2007 - 2009 National Conference Abstract Reviewer, SACNAS  
2007 - 2009 Science Mentor, SPARK, Philadelphia, PA  
2008 Annual Biomedical Research Conference for Minority Students (ABRCMS) Judge, Orlando, FL  
2006 – 2007 Member, Graduate Training Advisory Committee, University of North Carolina, Chapel Hill, NC  
2006 Teacher's Assistant (volunteer), INSPIRE, Chapel Hill High School, Chapel Hill, NC  
2005 Student Mentor, Womentoring, University of North Carolina, Chapel Hill, NC  
2004 - 2006 Event Committee, Curriculum in Genetics and Molecular Biology, University of North Carolina,  
Chapel Hill, NC  
2003 - 2006 Student Recruitment Committee, Curriculum in Genetics and Molecular Biology, University of North  
Carolina, Chapel Hill, NC

*WITHIN UNC-CHAPEL HILL (COMMITTEES, ADMIN ACTIVITIES)*

- 2015 – present UNC-CH Nutrition Obesity Research Center internal governance committee, Kannapolis, NC  
2014 – present Preceptor, Curriculum in Toxicology, UNC at Chapel Hill, Chapel Hill, NC  
2014 – present Member, Carolina Chromatin Consortium, UNC at Chapel Hill, Chapel Hill, NC  
2014 – present Member, Carolina Black Caucus  
2013 – present Preceptor, Curriculum in Genetics and Molecular Biology, UNC at Chapel Hill, Chapel Hill, NC  
2014 – 2015 UNC Nutrition Research Institute Impact award Committee, Kannapolis, NC  
2014 – 2015 UNC-CH Nutrition Department fetal alcohol spectrum search committee, Kannapolis, NC  
2014 – 2015 UNC-CH Nutrition Department cardiovascular and metabolic search committee, Kannapolis, NC  
2014 – 2015 UNC-CH Nutrition Department nutrition and cancer search committee, Kannapolis, NC  
2013 – 2014 Coordinator, UNC-CH Nutrition Research Institute Seminar Series, UNC NRI, Kannapolis, NC  
2013 UNC-CH Genetics Department computational faculty search committee, Chapel Hill, NC  
2013 UNC-CH Nutrition Research Institute Strategic planning committee member, Kannapolis, NC

*OTHER (SITE VISITS, REVIEW PANELS)*

- 2014 NIH site visit for UNC-CH Curriculum in Genetics and Molecular Biology training grant renewal  
2014 USDA Project Plan reviewer, USDA Office of Scientific Quality Review  
2013 UNC-CH Nutrition Research Institute Board Meeting

**GRANTS**

*ACTIVE*

K22 - KES023849A

Role: PI (75% effort) 12/01/2014-11/30/2017  
NIEHS – PA-12-188 Transition to Independent Environmental Health Research Career Development Award  
Title: A genetic approach to understanding mechanisms of epigenetic perturbation by environment  
Project goals: To determine the role of DNA sequence differences in influencing the extent and heritability of epigenetic response to the endocrine disrupting compound (EDC) vinclozolin.

NC TraCS – 550KR81416

Role: Co-investigator 9/1/2014- 8/30/2015

UNC- CH NCTraCs

Title: Role of phthalates and vitamin E in risk of diabetes.

Project goals: To determine correlation between urinary phthalate levels and diabetes status in a Mexican cohort of human participants and to determine the role of vitamin E intake in diabetes occurrence in individuals with high phthalate levels.

University Research Council Award

Role: PI (<1% effort) 5/1/2015- 4/30/2017

Title: Targeted bisulfite sequencing to determine epigenetic perturbation caused by EDC exposure

Project goals: To determine the level of genome-wide epigenetic perturbation caused by exposure to vinclozolin

#### *COMPLETED*

IBM J. Faculty Development Award

Role: PI (<1% effort) 12/1/2014- 11/30/2015

Title: Characterizing mechanisms of environmental epigenetic perturbation

Project goals: To determine the level of genome-wide epigenetic perturbation caused by exposure to vinclozolin

NRI- collaborative grant

Role: Co-PI (5% effort) 1/1/2015- 6/1/2015

UNC-CH Nutrition Research Institute Collaborative grant

Title: Methylation patterns in placental tissue in relation to maternal weight status and glycemic control during pregnancy.

Project goals: To determine the role of global DNA methylation patterns in human placenta in determining birth outcomes from women with different weight and glycemia status phenotypes during pregnancy with the ultimate goal of understanding maternal influences on fetal growth and body composition.

1P30 ES013508-05

Role: PI (~10% effort) 10/1/2010 - 9/30/2011

Center of Excellence in Environmental Toxicology (CEET), Mentored Scientist Transition Award, National Institutes of Health-NIEHS, University of Pennsylvania, Philadelphia, PA

Title: Understanding the additive effects of genetic-epigenetic-environmental interactions on disease.

Project goals: To develop a model to study the role of genetic differences in epigenetic response to the (EDC) endocrine disrupting compound vinclozolin.

F32 - GM085999

Role: PI (100% effort) 9/1/2008 - 8/31/10

Ruth L. Kirschstein National Research Service Award, NIH-NIGMS, University of Pennsylvania, Philadelphia, PA

Title: Role of regulatory sequence at the *H19* imprinting control region (ICR).

Project goals: To generate and characterize three targeted mouse models to investigate the role of Beckwith-Wiedemann Syndrome associated microdeletions at the *H19* ICR in imprinting mechanisms.

T32 - HD007516

Role: PI (100% effort) 7/1/2007 - 7/31/2008

Department of Cell and Developmental Biology Training grant, University of Pennsylvania, Philadelphia, PA

Relationship to project: Role of regulatory sequence at the *H19* imprinting control region.

Project goals: To determine the role of CTCF site spacing and transcripts at *H19/Igf2* locus in imprinting mechanisms.