

Monica Uddin, PhD

CONTACT INFORMATION

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EDUCATION

- 1993 **BA** in Human Biology (with honors and distinction).
Stanford University, Stanford, CA.
- 2003 **PhD** in Biological Anthropology
New York University, New York, NY.
Area of Concentration: Molecular Anthropology
- 2003-2004 **Postdoctoral Fellowship**
Center for Molecular Medicine & Genetics
Wayne State University School of Medicine, Detroit, MI.

PROFESSIONAL APPOINTMENTS

I. Academic Research

- 8/2018-present **Professor**, University of South Florida, College of Public Health,
Genomics Program and Global Health and Infectious Disease Research
Program, Tampa, FL.
- 2018 **Richard and Margaret Romano Professorial Scholar**, *University of
Illinois-Urbana Champaign*, Urbana-Champaign, IL.
- 8/2014-8/2018 **Associate Professor**, *University of Illinois-Urbana Champaign*,
Department of Psychology; Core Faculty, Carl R. Woese Institute for
Genomic Biology; Faculty affiliate, Beckman Institute (2015-2020),
Urbana-Champaign, IL.
- 5/2011-7/2014 **Assistant Professor**, *Wayne State University School of Medicine*, Center
for Molecular Medicine and Genetics and Department of Psychiatry &
Behavioral Neurosciences, Detroit, MI.
- 1/2011-5/2011 **Research Assistant Professor**, *University of Michigan School of Public
Health*, Department of Epidemiology, Ann Arbor, MI.
- 2009-2010 **Assistant Research Scientist**, *University of Michigan School of Public
Health*, Department of Epidemiology, Ann Arbor, MI.
- 2005-2008 **Research Scientist**, *Wayne State University School of Medicine*, Center
for Molecular Medicine & Genetics, Detroit, MI.

SERVICE ACTIVITIES

I. Disciplinary Professional Service

- 2014-present **Membership Chair**, American Psychopathological Association (elected position).
- 2014-present **Council Member**, American Psychopathological Association (elected position).
- 2014-present **Reviewer of Robins/Guze Early Career Promise Applicants** on behalf of the American Psychopathological Association
- 2014-present **Early Career and New Investigator Roundtable Discussion Organizer**, Annual Meeting of the American Psychopathological Association, New York, NY.
- 2015 (Spring) **Judge**, Student Research Showcase, Sigma Xi Foundation
- 2013-2014 **Scientific advisory board member**, Michigan Biotrust
- 2010-present **Academic Editor**, *PLoS One*

II. Review Activities**A. Grant Review Panels**

- 2018 NIH Mechanisms of Emotion, Stress and Health, AdHoc Reviewer
- 2017 NSF Career Grant AdHoc Reviewer
- 2016-2017 National Institute for Occupational Safety and Health, Centers for Disease Control, World Trade Center Program Reviewer
- 2015 NIH Mechanisms of Emotion, Stress and Health, AdHoc Reviewer
- 2015 UK Economic and Social Research Council, AdHoc Reviewer
- 2015 Deutsche Forschungsgemeinschaft (German Research Foundation), AdHoc Reviewer
- 2014-2015 VA Review Panel Member, Special Panel on Genomics
- 2012 Netherlands Organisation for Health Research and Development (ZonMw)
- 2011 NIH Behavioral Genetics and Epidemiology Early Career Reviewer

B. Manuscript Reviewer (ongoing)

Proceedings of the National Academy of Sciences (USA)

Biological Psychiatry

Depression and Anxiety

Epigenomics

Psychoneuroendocrinology

Journal of Health and Place

Journal of Psychiatric Research

International Journal of Epidemiology

Journal of Neuroinflammation

Childhood Development

Psychiatry Research

PloS ONE

Journal of Traumatic Stress

Social Science and Medicine

Behavioral and Brain Functions

Social Psychiatry and Psychiatric Epidemiology

Developmental Psychology

Molecular Phylogenetics and Evolution

BMC Evolutionary Biology

BMC Bioinformatics
American Journal of Primatology.

III. Departmental and University Service

2017-2018	Faculty Search Committee Member , Neuroscience Focus, Department of Comparative Biosciences, School of Veterinary Medicine, <i>University of Illinois at Urbana-Champaign</i> .
2017-2018	Grievance Committee , Neuroscience Program, <i>University of Illinois at Urbana-Champaign</i>
2017 (Fall)	Faculty Mentor , NIH Grant Writing Series, <i>University of Illinois at Urbana-Champaign</i> .
2016 (Spring)	Campus Research Board Reviewer , <i>University of Illinois at Urbana-Champaign</i> .
2016-present	Undergraduate Studies Committee Member , Department of Psychology, <i>University of Illinois at Urbana-Champaign</i> .
2016 (Spring)	CompGen Executive Committee Member , <i>University of Illinois at Urbana-Champaign</i> .
2015-2016	Grievance Committee , Neuroscience Program, <i>University of Illinois at Urbana-Champaign</i> (elected position).
2015 (Spring).	Seminar director , Human Sociogenomics lecture series, Carl R Woese Institute for Genomic Biology, <i>University of Illinois Urbana-Champaign</i> , Urbana, IL.
2014 (Winter)	Brain Research Foundation Seed Grant Reviewer , <i>University of Illinois at Urbana-Champaign</i> .

AWARDS AND HONORS

- Richard and Margaret Romano Professorial Scholar, University of Illinois at Urbana-Champaign (2018-2020)
- Membership Chair and Officer, American Psychopathological Association (elected positions; 2014-2019).
- Invited participant, workshop on Social and Behavioral Epigenetics (2014).
- Robins/Guze Award for Early Career Promise, American Psychopathological Association (2012).
- Young Scholar Travel Fellowship, University of Michigan (2010).
- Systems Biology Symposium Poster Prize Award Winner, University of Michigan (2009).
- Wayne State University Postdoctoral Fellowship (2003-2004).
- Best Postdoctoral Poster, Center for Molecular Medicine and Genetics Retreat (2002).
- Graduate Fellowship, New York University (2002).
- New York Consortium in Evolutionary Primatology (NYCEP). Fellowship (2001).
- Sokol Predoctoral Research Travel Award (2000).
- New York University Student Travel Award (2000, 2002).
- Henry Mitchell MacCracken Scholarship (1996-1999).
- Stanford University Human Biology Commencement Speaker (1993).
- Cap and Gown Society Member (Stanford Women's Honor Society). (1993-present).

PROFESSIONAL MEMBERSHIPS

American Psychopathological Association
 Society of Biological Psychiatry
 International Society for Traumatic Stress Studies
 Sigma Xi
 American Association for the Advancement of Science
 Psychiatric Genomics Consortium, PTSD Working Group

GRANT SUPPORT

Current Funding:

- 1U01MH115485 *National Human Genome Research Institute* 9/20/17-6/20/22
 Role: MPI
 Transgenerational Epigenomics of Trauma and PTSD in Rwanda
 The goal of this project is to characterize the transgenerational genomic impact of genocide exposure and post-traumatic stress disorder (PTSD) in women survivors of the Rwandan genocide and their offspring, and build scientific capacity in Rwanda and elsewhere in Africa.
 Amount: \$1,299,907
- 1R01MD011728 *National Institute of Minority Health and Health Disparities* 8/16/17-5/31/21
 Role: PI
 Epigenomic Predictors of PTSD and Traumatic Stress in an African American Cohort
 This project will characterize how social adversity influences epigenomic processes that elevate risk for stress-related psychopathology among African-Americans.
 Amount: \$2,835,169
- R01 MD011728-02S1 *Office of Research on Women's Health* 9/1/18-8/31/2019
 Role: PI
 Epigenomic Predictors of PTSD and Traumatic Stress in an African American Cohort
 (Administrative Supplement)
 This project will expand sample testing to enable analyses of potential sex-specific epigenetic signatures of stress-related psychopathology among African-Americans.
- 1R01 MH108826 *National Institute of Mental Health* 07/31/16-06/30/20
 Role: MPI
 The impact of traumatic stress on the methylome: implications for PTSD
 The purpose of this study is to facilitate an epigenome-wide association study (EWAS) of PTSD in participating cohorts in Psychiatric Genomics Consortium (PGC). PTSD workgroup.
 Amount: \$2,222,029
- BCS 16-20239 *National Science Foundation* 09/15/16 – 08/14/21
 Role: Co-PI (PI: Malhi)
 IBSS-L: Epigenomic Effects of European Colonization on Alaskan Natives
 The purpose of this Alaskan community-based research is to examine the epigenomic effect resulting from the European colonization of indigenous peoples of the Americas and consequential adverse health.
 Amount: \$860,000

1R01AI129788 *National Institute of Allergy and Infectious Diseases* 11/15/16-10/31/21

Role: Co-I, Subcontract PI (PI: Nagarkatti)

Epigenetic Mechanism of T cell dysregulation in PTSD

This project will test the hypothesis that PTSD associates, at least in part, with dysregulation in the epigenetic mechanisms that alter the nuclear factor of activated T cells (NFAT) signaling pathway leading to a pro-inflammatory state.

Subcontract Amount: \$72,421

Research for Health in Humanitarian Crises (r2hc)

4/1/18-3/31/20

Role: Co-I; Jansen (PI)

Evaluating the Biological, Psychological and Social Impact by Promoting Positive Masculinity through the 'Living Peace' Program in the DRC

This project will conduct a randomized control trial of men in Goma, Eastern Democratic Republic of Congo, to objectively evaluate the impact of the Living Peace intervention on reducing gender based violence and PTSD symptoms.

Amount: £440,041 (prime)

1R01 MH103291 (Supplement) *National Institute of Mental Health* 09/1/16-08/31/19

Role: Subcontract PI; McLaughlin (PI)

Child Trauma and the Development of Neural Systems Underlying Emotion Regulation

This research examines the impact of childhood trauma on the development of neural networks involved in emotion regulation. It also seeks to identify epigenetic biomarkers of environmental adversity that associate with neural phenotypes of emotion regulation.

Amount: \$180,748; Subcontract Amount: \$18,489

2R01 GM082937 *National Institute of General Medical Sciences* 09/21/15 – 06/30/20

Role: Collaborator (PI: Bell)

Epigenetic mechanisms and consequences of fathering in sticklebacks

The goal of this work is to understand the behavioral, molecular and epigenetic mechanisms that contribute to the effects of fathering on offspring, using threespined stickleback fish as a model organism.

Amount: \$1,348,000

U01 DK106908 *National Institute of Diabetes, Digestive and Kidney Disease* 08/15/15-06/30/20

Role: Consultant (PI: Rickey)

Prevention of Lower Urinary Tract Symptoms in Women: Yale Bladder Health Clinical Center

The objective of this work is to demonstrate how we can build the knowledge base for bladder health using Ecological Systems Theory as a guiding framework, an approach that addresses risk factors at the individual, family/peer, and community levels.

Amount: \$1,600,000

Previous Funding:

University of Illinois Health Disparities Initiative

2016

Role: PI

Leukocyte transcriptome and Risk of PTSD in a Prospective Cohort of African Americans

This project seeks to characterize how leukocyte-derived RNA expression before and after trauma exposure shapes risk of post-traumatic stress disorder (PTSD). in African-Americans.
Amount: \$90,000

Office of the Vice Chancellor for Research, University of Illinois 2016

Role: PI

Epigenetic and Neural Correlates of the Transgenerational Transmission of PTSD in Rwanda
The goal of this travel grant is to conduct an in-person visit to strengthen an existing collaboration with investigators from the University of Rwanda, in order to investigate the transgenerational epigenetic effects of post-traumatic stress disorder (PTSD). and trauma exposure in women survivors of the Rwandan genocide.

Amount: \$4,000

Research for Health in Humanitarian Crises (r2hc) 2016

Role: Co-I; Jansen (PI)

Evaluating the Biological, Psychological and Social Impact by Promoting Positive Masculinity through the 'Living Peace' Program in the DRC

This seed funding will facilitate the development of a full proposal with the goal of conducting a randomized control trial of men in Goma, Eastern Democratic Republic of Congo, to objectively evaluate the impact of the Living Peace intervention on reducing gender based violence and PTSD symptoms, as well as assess changes in stress-related genomic biology.

Amount: £5,600

Centers for Disease Control 2014-2016

Role: Consultant; Luft (PI)

Deciphering Biological Linkages between PTSD and Respiratory Disease in WTC Responders

This work seeks to uncover the biologic mechanisms, including epigenetic, gene expression, and cytokine levels, linking PTSD and respiratory disease in world trade center responders

Amount: \$998,324

Children's Research Center of Michigan 2014

Role: MPI (with V Diwadkar)

Risk for Schizophrenia: Epigenetics, Stress and Impact on Brain Network Function

This work seeks to understand how epigenetic factors mediate the disordered stress response in adolescents at genetic high risk for schizophrenia, and how these factors in turn will predict dysfunction in schizophrenia-associated brain networks

Amount: \$25,000

Brain and Behavior Research Foundation Young Investigator Award 2012-2014

Role: Collaborator (PI M Thomason)

Neural and epigenetic bases of PTSD in youth

The proposed research aims to elucidate epigenetic and neurobiological factors that contribute to pediatric PTSD, with an additional aim toward discovering reliable risk factors to serve as targets for future intervention

Amount: \$60,000

- The Michigan Bloodspot Environmental Epidemiology Project* 2013
 Role: Co-I (PI: C Trentacosta)
 Gene-Environment Interplay and Young Children's Executive Functioning
 The proposed work will explore the roles of family and neighborhood-level socioeconomic position during the prenatal period and early childhood and genetic and epigenetic processes in the emergence of differences between twins in executive functioning
 Amount: \$25,000
- The Michigan Bloodspot Environmental Epidemiology Project* 2013
 Role: Co-I (PI: A Simanek)
 Intergenerational Impact of Maternal Psychosocial Stress on Offspring Health Outcomes as Mediated by Maternal Immune Response to Persistent Pathogens in Pregnancy
 This project examines the association between maternal experience of traumatic events during pregnancy, exposure of offspring to elevated maternal immune response to persistent pathogens *in utero*, and presence of anxiety disorders in offspring of females from Detroit
 Amount: \$25,000
- OVPR Faculty Award Program, Wayne State University* 2012-2014
 Role: PI
 This award was funded following a university-wide competition and provides supplemental funding for a postdoctoral fellow in the Uddin laboratory
 Amount: \$60,000
- BCS-0827546 *National Science Foundation* 2008-2013
 Role: Consultant (PI: D Wildman)
 Collaborative Research: Evolutionary Origins of the Brain Energetics and Adaptive Plasticity of Humans
 The purpose of this research is to understand the evolution of the human brain, particularly plasticity Approaches being used include PET scans, microarray analysis, next generation sequencing, and evolutionary population genetics
 Amount: \$1,771,119
- Jack Ryan Award, Wayne State University School of Medicine* 2013
 Role: PI
 Epigenetic dysregulation and brain network disruption in obsessive-compulsive disorder (OCD)
 The overall goal of the proposed work is to determine the impact of epigenetic dysregulation in serotonin- and dopamine-related genes on brain networks in OCD
 Amount: \$2,000
- American Association of Anatomists Postdoctoral Fellowship* 2013
 Role: Mentor
 The goal of this award is to support the career development of postdoctoral fellow Lisa Nevell Through the support of these funds, Dr Nevell is using cell culture approaches to investigate the functional consequences of adaptive evolution of cis-regulatory regions implicated in human neuronal plasticity

Amount: \$20,000

- R01 DA022720-S1 *National Human Genome Research Institute* 2011-2012
 Role: Collaborator (PI A Aiello)
 Ecological stressors, PTSD, and drug use in Detroit (supplement)
 To investigate the interrelationships among genetic variation, neighborhood-level stressors, and complex diseases known to be frequently comorbid with PTSD, specifically illicit drug use and coronary artery disease
 Amount: \$100,000
- R01 DA022720-S1 *National Institute on Drug Abuse* 2009-2012
 Role: Co-I (PI A Aiello)
 Ecological stressors, PTSD, and drug use in Detroit (supplement)
 To assess how gene X social environment interactions influence the risk of PTSD and other psychopathologies in a population-representative cohort of adult Detroit residents
 Amount: \$1,063,870
- R01-DA022720 *National Institute on Drug Abuse* 2007-2012
 Role: Co-I (PI A Aiello)
 Ecological stressors, PTSD, and drug use in Detroit
 To assess how neighborhood-level ecologic factors influence risk of PTSD and other psychopathologies in a population-representative cohort of adult Detroit residents
 Amount, \$3,181,614
- MH088283-01 *National Institute of Mental Health* 2009-2011
 Role: Co-I (PI A Aiello)
 Candidate epigenetic biomarkers for PTSD: insights from Detroit
 The goal of this study was to assess whether methylation profiles differ among individuals with current PTSD compared to those who have once had PTSD but are now PTSD free, and individuals who have never had the disorder
 Amount: \$996,421
- BCS-0550209 *National Science Foundation* 2006-2011
 Role: Co-I (PI L Grossman)
 Genotypic and Phenotypic Changes Associated with Encephalization
 The goal of this grant was to investigate whether brain important genes associated with encephalization in humans also show adaptive change in other mammalian lineages with evidence of increased encephalization
 Amount: \$373,311
- Robert Wood Johnson Health & Societies Scholar Small Grant Program* 2009-2010
 Role: PI
 Social Context and the Epigenetics of Post-traumatic Stress Disorder (PTSD).
 The goal of this grant was to determine whether socioeconomic position modified PTSD-associated DNA methylation profiles
 Amount: \$23,760

OVPR Faculty Grants & Award Program, University of Michigan 2009-2010

Role: PI

Epigenetics of Post-traumatic Stress Disorder (PTSD)

The goal of this grant was to assess whether DNA methylation profiles differ among trauma exposed individuals with and without PTSD

Amount: \$15,000

National Science Foundation Doctoral Dissertation Improvement Grant 2001

Role: Co-I (PI CJ Jolly)

Genetic Transposition of Baboon Endogenous Virus (BaEV) in Hybrid Old World Monkeys (Primates: Papionini)

The goal of this project was to determine the extent of copy number and DNA sequence variation in BaEV in a multiple wild primate populations, and to identify the social structures that influenced this variation

Amount: \$4,800

Wenner-Gren Foundation for Anthropological Research Small Grant Award 2000

Role: PI

Genetic Transposition of Baboon Endogenous Virus (BaEV) in Ethiopian Hybrid Baboons

The goal of this project was to determine the extent of copy number and DNA sequence variation in BaEV in a wild baboon population

Amount: \$7,700

Sigma Xi Grant-in-Aid-of-Research Award 1999, 2000

Role: PI

Genetic Transposition of Baboon Endogenous Virus (BaEV) in Ethiopian Hybrid Baboons

The goal of this project was to verify whether BaEV copy number and DNA sequence variation existed in a wild baboon population

Amounts: \$700 (1999), \$800 (2000).

PEER REVIEWED PUBLICATIONS

(* indicates papers with corresponding author status; + indicates author is a student whom I mentored).

1. **Uddin M***, Ratanatharathorn A, Armstrong D, Kuan P, Aiello AE, Bromet EJ, Galea S, Koenen KC, Luft B, Ressler KJ, Wildman DE, Nievergelt CM, Smith, A. (in press). Epigenetic meta-analysis across three civilian cohorts identified *NRG1* and *HGS* as blood-based biomarkers for post-traumatic stress disorder. *Epigenomics*.
2. Sumner JA, Colich NL, **Uddin M**, Armstrong D, McLaughlin KA. (in press). Early experiences of threat, but not deprivation, are associated with accelerated biological aging in children and adolescents. *Biol. Psych.*
3. Matt SM, Zimmerman JD, Lawson MA, Bustamante AC⁺, **Uddin M**, Johnson RW. (in press). Inhibition of DNA methylation with zebularine alters lipopolysaccharide-induced sickness behavior and neuroinflammation in mice. *Front. Neurosci.*

4. Pfeiffer J⁺, Mutesa L, **Uddin M***. Traumatic stress epigenetics. (2018). *Curr Behav Neurosci Rep*. Published online Feb. 13, 2018. <https://doi.org/10.1007/s40473-018-0143-z>
**Invited review
5. Nievergelt N, Ashley-Koch AE, Dalvie S, Hauser MA, Morey R, Smith AK, **Uddin M**. Genomic approaches to post-traumatic stress disorder: The psychiatric genomic consortium initiative. (2018). *Biol. Psych*. 83:831-39. PMID: 29555185. PMCID: PMC5915904.
6. Wolf EJ, Maniates H, Nugent N, Maihofer AX, Armstrong A, Ratanatharathorn A, Ashley-Koch AE, Garrett M, Kimmrel NA, Lori A, VA MIRECC Workgroup, Aiello AE, Baker DG, Beckham JC, Boks MP, Galea S, Geuze Em Hauser MA, Kessler RC, Koenen KC, Miller MW, Ressler KJ, Risbrough V, Rutten BPF, Stein MB, Ursano RJ, Vermetten E, Vinkers CH, **Uddin M**, Smith AK, Nievergelt CM, Logue MW. Traumatic stress and accelerated DNA methylation age: A meta-analysis. (2018) *Psychoneuroendocrinol*. 92:123-34. PMID: 29452766. PMCID: PMC5924645.
7. Bustamante A⁺, Aiello A, Guffanti G, Galea S, Wildman D, **Uddin M***. *FKBP5* DNA methylation does not mediate the association between childhood maltreatment and depression symptom severity in the Detroit Neighborhood Health Study. (2018). *J Psychiatr. Res*. 96:39-48. PMID: 28961425 PMCID: PMC5698158
**First author was a PhD student in the Uddin lab.
8. Duncan LE, Ratanatharathorn A, Aiello AE, Almlil LM, Amstadter AB, Ashley-Koch AE, Baker DG, Beckham JC, Bierut LJ, Bisson J, Bradley B, Chen CY, Dalvie S, Farrer LA, Galea A, Garrett ME, Gelerntner JE, Guffanti G, Hauser MA, Johnson EO, Kessler RC, Kimbrel KA, King A, Koen N, Kranzler HR, Logue MW, Maihofer AX, Martin AR, Miller MW, Morey RA, Nugent NR, Rice JP, Ripke S, Roberts AL, Saccone NL, Smoller JW, Stein DJ, Stein MB, Sumner JA, **Uddin M**, Ursano RJ, Wildman DE, Yehuda R, Zhao H, MIRREC, Daly MJ, Liberzon I, Nievergelt CN, Koenen KC. (2018). Largest GWAS of PTSD (N=20,070). Yields Genetic Overlap with Schizophrenia and Sex Differences in Heritability. *Mol. Psychiatry*. 23: 666-673. PMID: 28439101. PMCID: PMC5696105. doi: [10.1038/mp.2017.77](https://doi.org/10.1038/mp.2017.77)
This paper generated widespread media interest, including a press release that was picked up by CNN and had 2.2 million views and coverage that came from US News, United Press International, Philly.com and MSN.com
9. Bustamante A⁺, Armstrong D, **Uddin M***. Epigenetic profiles associated with Major Depression in the Human Brain. (2018). *Psychiatry Res*. 260:439-442. PMID: 29272728
**First author was a PhD student in the Uddin lab.
10. Lowe SR, Joshi S, Galea S, Aiello AE, **Uddin M**, Koenen KC, Cerda M. (2017). Pathways from assaultive violence to posttraumatic stress, depression, and generalized anxiety symptoms through stressful life events: Longitudinal mediation models. *Psychol. Med*. 47:2556-66. PMID: 28464960. PMCID: PMC5675529

11. Ratanatharathorn A, Boks MP, Maihofer AX, Aiello AE, Amstadter AB, Ashley-Koch AE, Baker DG, Beckham JC, Bromet E, Dennis M, Garrett ME, Geuze E, Guffanti G, Hauser MA, Kilaru V, Kimbrel NA, Koenen KC, Kuan PF, Logue MW, Luft BJ, Miller MW, Mitchell C, Nugent NR, Ressler KJ, Rutten BPF, Stein MB, Vermetten E, Vinkers CH, Youssef NA; VA Mid-Atlantic MIRECC Workgroup; PGC PTSD Epigenetics Workgroup, **Uddin M**, Nievergelt CM, Smith AK. (2017). Epigenome-wide association of PTSD from heterogeneous cohorts with a common multi-site analysis pipeline. *Am. J. Med. Genet B Neuropsychiatry Genet.* 174:619-30. PMID: 28691784. PMCID: PMC559272
12. Horesh D, Lowe S, Galea S, **Uddin M**, Koenen KC (2017). An in-depth look into PTSD-depression comorbidity: A longitudinal study of chronically-exposed Detroit residents. *J Affect. Disord.* 208:653-661. PMID: 27816322
13. Bustamante AC⁺, Aiello AE, Galea S, Ratanatharathorn A, Noronha C, Wildman DE, **Uddin M***. (2016). Glucocorticoid Receptor DNA Methylation, Childhood Maltreatment and Major Depressive Disorder. *J Affect Disord.* 206:181-188. PMID: 27475889.
**First author was a PhD student in the Uddin lab.
14. Simanek AM, **Uddin M**, Yolken R, Aiello A. (2016). Use of archived neonatal bloodspots for examining associations between prenatal exposure to potentially traumatic or stressful life events, maternal herpesvirus infection and lifetime history of generalized anxiety disorder in offspring. *Front. Environ. Sci.* <https://doi.org/10.3389/fenvs.2016.00054>
15. Feinstein L, Ferrando-Martínez S, Leal M, Zhou X, Sempowski GD, Wildman DE, **Uddin M**, Aiello AE. (2016). Population Distributions of Thymic Function in Adults: Variation by Sociodemographic Characteristics and Health Status. *Biodemography Soc Biol.* 62:208-21. PMID: 27337555.
16. Aiello AE, Feinstein L, Dowd JB, Pawelec G, Derhovanessian E, Galea S, **Uddin M**, Wildman DE, Simanek AM. (2016). Income and markers of immunological cellular aging. *Psychosom Med.* 78:657-66. PMID: 27187853.
17. Aiello AE, Dowd JB, Jayabalasingham B, Feinstein L, **Uddin M**, Simanek AM, Cheng CK, Wildman DE, Koenen K, Pawelec G. (2016). PTSD is associated with an increase in aged T cell phenotypes in adults living in Detroit. *Psychoneuroendocrinol.* 67:133-41. PMID: 26894484.
18. Nugent N, Goldberg A, **Uddin M**. (2016). Topical Review: The Emerging Field of Epigenetics: Informing Models of Pediatric Trauma and Physical Health. *J. Pediatr. Psychol.* 41:55-64. PMID: 25825520.
19. Wingo AP, Almli LM, Stevens JJ, Klengel T, **Uddin M**, Li Y, Bustamante AC⁺, Lori A, Koen N, Stein DJ, Smith AK, Aiello AE, Koenen KC, Wildman DE, Galea S, Bradley B, Binder EB, Jin P, Gibson G, Ressler KJ (2015). DICER1 and microRNA regulation in post-traumatic stress disorder with comorbid depression. *Nat. Commun.* 6: 10106. PMID: 26632874.

20. Mota N, Sumner JA, Lowe SR, Neumeister A, **Uddin M**, Aiello A E, Wildman DE, Galea S, Koenen KC, Pietrzak RH (2015). The rs1049353 polymorphism in the *CNR1* gene interacts with childhood abuse to predict posttraumatic threat symptoms. *J. Clin. Psychiatry*. 76:e1622-3. PMID: 26717543.
21. Weckle A, Aiello AE, **Uddin M**, Galea S, Coulbourn RM, Soliven R, Meier HCS, Wildman DE (2015). Rapid fractionation and isolation of whole blood components in samples obtained from a community-based setting. *J Vis Exp*. 105. PMID: 26649992.
22. Meyers J, Salling M, Almli L, Ratanatharathorn, **Uddin M**, Galea S, Wildman D, Aiello AE, Bradkley B, Ressler K, Koenen K (2015). Frequency of Alcohol Consumption in Humans; the Role of Metabotropic Glutamate Receptors and Downstream Signaling Pathways. *Transl. Psychiatry*. 5:e586. PMID: 26101849. PMCID: PMC4490281.
23. Straughen JK, Sipahi L+, **Uddin M**, Misra DP, Misra VK (2015). Racial differences in *IGF1* methylation and birth weight. *Clin. Epigenetics*. 7:47. PMID: 25945130 PMCID: PMC4419394.
24. Lowe SR, Meyers JL, Galea A, Aiello AE, **Uddin M**, Wildman DE, Koenen KC (2015). RORA and posttraumatic stress trajectories: main effects and interactions with childhood physical abuse history. *Brain Behav*. 5:e00323. PMID: 25798337 PMCID: PMC4356849.
25. Logue MW, Amstadter AB, Baker DG, Koenen KC, Liberzon I, Miller MW, Morey RA, Nievergelt CM, Ressler KJ, Smith AK, Smoller JW, Stein MB, Sumner JA, **Uddin M** (2015). The Psychiatric Genomics Consortium Posttraumatic Stress Disorder Workgroup: Posttraumatic stress disorder enters the age of large-scale genomic collaboration. *Neuropsychopharmacology*. 40:2287-91. PMID: 25904361. PMCID: PMC4538342.
26. Logue MW, Smith AK, Baldwin C, Wolf EJ, Guffanti G, Ratanatharathorn A, Stone A, Schichman SA, Humphries D, Binder EB, Menke A, **Uddin M**, Wildman D, Galea S, Aiello AE, Koenen KC, Miller MW (2015). An analysis of gene expression in PTSD implicates genes involved in the glucocorticoid receptor pathway and neural responses to stress. *Psychoneuroendocrinology*. 57:1-13. PMID: 25867994 PMCID: PMC4437870
27. Demmer RT, Gelb S, Suglia SF, Keyes KM, Aiello AE, Colombo PC, Galea S, **Uddin M**, Koenen KC, Kubzansky LD (2015). Sex differences in the association between depression, anxiety, and type 2 diabetes mellitus. *Psychosom Med*. 77:467-77. PMID: 25867970 PMCID: PMC4431947
28. Pietrzak RH, Sumner JA, Aiello AE, **Uddin M**, Neumeister A, Guffanti G, Koenen, KC (2015). Association of the rs2242446 polymorphism in the norepinephrine transporter gene *SLC6A2* and anxious arousal symptoms of posttraumatic stress disorder. *Journal of Clinical Psychiatry*, 76, e537-8. PMID: 25919853. PMCID: PMC4526154.
29. Bustamante A⁺, **Uddin M*** (2014). Epidemiology, Epigenetics, and Psychopathology. *Med Epigenet*. 2: 60-70.

**Invited review. First author was a PhD student in the Uddin lab.

30. Simanek AM, Cheng C, Yolken R, **Uddin M**, Galea S, Aiello AE (2014). Herpesviruses, inflammatory markers and incident depression in a longitudinal study of Detroit residents *Psychoneuroendocrinology* 50C:139-48. PMID: 25218654 PMCID: PMC4306348
31. Hatzenbuehler ML, Keyes KM, **Uddin M**, Aiello A, Hamilton A, Galea S (2014). The Collateral Damage of Mass Incarceration: Increased Risk of Psychiatric Morbidity among Non-Incarcerated Residents of High-Incarceration Neighborhoods *Am J Pub Health* PMID: 25393200 PMCID: PMC4265900
 **Article was profiled in *The Atlantic*
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*This paper was based on my undergraduate honors thesis

BOOK CHAPTERS, BOOK REVIEWS AND SOLICITED COMMENTARY

(* indicates contributions with corresponding author status; + indicates author is a student whom I mentored).

1. Kim GS⁺, Smith AK, Nievergelt C, **Uddin M***. (2018). Neuroepigenetics of Post-traumatic Stress Disorder. In B. Rutten (Ed.), Neuroepigenetics and Mental Illness, *Progress in Molecular Biology and Translational Science*, volume 156. pp 227-253
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2. **Uddin M***, Jansen S, Telzer EH (solicited commentary). (2017). Adolescent depression linked to socioeconomic status? Molecular approaches for revealing premorbid risk factors. *Bioessays*. 39. doi: 10.1002/bies.201600194. PMID: 28090662.
3. Sumner JA, Bustamante AC⁺, Koenen KC, **Uddin M*** (2016). Genetics of PTSD. In: Liberzon I, Ressler K (eds.). *Neurobiology of PTSD* (New York, NY: Oxford University Press). pp 197-219.
4. Rusiecki JA, **Uddin M**, Alexander SA, Moore LE (2016). Post-traumatic stress disorder and DNA methylation. In: Martin C, Preedy V, and Patel V, (eds.). *Comprehensive Guide to Post-traumatic Stress Disorders (PTSD)*. (New York: Springer), pp. 1069-1096
5. **Uddin M*** and Diwadkar VAD (solicited commentary). (2014). Inflammation and psychopathology: what we know now, and what we need to know. *Soc Psychiatry Psychiatr Epidemiol*. 49:1537-9. PMID: 25073607
6. **Uddin M***, Bustamante A⁺, Toyokawa S (2014). Epigenetic epidemiology of psychiatric disorders In: Avramopoulos D, Grayson DR, and Peedicayil J (eds). *Epigenetics in Psychiatry* (Waltham, MA: Elsevier), pp 101-127
7. Koenen KC, Guffanti G, Yan L, Haloossim M, **Uddin M**, Nugent NR, Amstadter AB (2014). Genetics of PTSD In Friedman MJ, Keane TM and Resick PA (eds). *Handbook of PTSD* (New York, NY: The Guildford Press). pp 300-312

8. **Uddin M***, Sipahi L+ (2013). Epigenetic influences on mental illness over the life course In: Koenen KC, Rudensteine S, Susser ES and Galea S (eds)., *Life Course Epidemiology of Mental Disorders* (New York, NY: Oxford University Press)., pp 238-248
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9. **Uddin M***, Amstadter AB, Nugent NR, Koenen KC (2012). Genetics and genomics of post-traumatic stress disorder In: Beck JG and Sloan D (eds)., *Handbook of Traumatic Stress Disorders* (New York, NY: Oxford University Press)., pp 143-158
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11. Koenen KC and **Uddin M** (solicited commentary). (2010). *FKBP5* Polymorphisms Modify the Effects of Childhood Trauma *Neuropsychopharmacology* 35:1623-1624 PMID: 20551900
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13. **Uddin M***, Phillips-Conroy J, and Jolly, CJ (2006). Social organization, reproductive systems, and mediation of baboon endogenous virus (BaEV) copy number in gelada, hamadryas, and other *Papio* baboons In: Leigh S and Swedell L (eds), *Reproduction & fitness in baboons: Behavioral, Ecological, and Life History Perspectives* (New York: Springer)., pp 123-143
14. **Uddin M*** (2004). (solicited). Book review of: “Microarray Analysis” By Mark Schena *Am J Phys Anthropol* 124:381-382

INVITED ORAL PRESENTATIONS

1. **Uddin M**. Epigenomics of traumatic stress in human populations. Invited Keynote Presentation, African Society for Human Genetics, Kigali, Rwanda, **Sept. 2018**.
2. **Uddin M**. Transgenerational epigenomics of trauma and PTSD in Rwanda. Invited Oral Presentation, 12th meeting of the H3Africa Consortium, Kigali, Rwanda, **Sept. 2018**.
3. **Uddin M**. Epigenetic approaches to understanding stress and trauma in humans. Invited Oral Presentation, Georgia Institute of Technology, Department of Biology, Atlanta, GA. **Feb. 2018**.
4. **Uddin M**. Genomics of traumatic stress and stress-related mental disorders. Invited Oral Presentation, University of South Florida College of Public Health, Department of Global Health, Tampa, FL. **Jan 2018**.

5. **Uddin M.** Epigenetic impact of stress, trauma and social adversity, Invited Oral Presentation, Medicalization of Poverty Symposium Scholars Day, University of Illinois at Urbana-Champaign and Carle Hospital, Urbana, IL. **Nov. 2017.**
6. **Uddin M.** Molecular imprints of social adversity across the lifecourse. Invited Oral Presentation, Medicalization of Poverty Symposium Foundation Day, University of Illinois at Urbana-Champaign and Carle Hospital, Urbana, IL. **Nov. 2017.**
7. **Uddin M.** Epigenomics of traumatic stress. Invited Oral Presentation, Cognitive Science Division Brown Bag Seminar, Dept. of Psychology, University of Illinois at Urbana-Champaign, IL, **Sept. 2017**
8. **Uddin M.** The impact of traumatic stress on the dynamic genome. Invited Oral Presentation, Developmental Division Brown Bag Seminar, Dept. of Psychology, University of Illinois at Urbana-Champaign, IL, **Sept. 2017**
9. **Uddin M.** Epigenetics of Stress and Trauma. Invited Oral Presentation, Carle Hospital, Synapse: A Collaborative Neuroscience Conference. Aug. **2017.**
10. **Uddin M.** Molecular Profiles of Stress, Trauma and Resilience. Invited Oral Presentation, National Alliance for Mental Illness, Effingham Chapter, Effingham, IL. Mar. **2017.**
11. **Uddin M.** Epigenetic biomarkers of stress and trauma throughout the life course. Invited Oral Presentation, Clinical Division Brownbag Seminar Series, Dept. of Psychology, University of Illinois at Urbana-Champaign, Champaign, IL, Jan. **2017.**
12. **Uddin M.** Updates and results of the PTSD PGC Epigenetics Workgroup. Invited Oral Presentation, Pre-meeting of the International Society for Traumatic Stress Studies, Dallas, TX, Nov **2016.**
13. **Uddin M.** Genetic and epigenetic risk factors in stress-related mental disorders: focus on PTSD. Invited Oral Presentation, Osher Lifelong Learning Institute, University of Illinois at Urbana-Champaign, Champaign, IL. Oct. **2016.**
14. **Uddin M.** Transcriptional and epigenetic regulation of traumatic stress in a community-based cohort. Invited Oral Presentation, Neuroscience Program, Michigan State University, Lansing MI, Sept. **2016.**
15. **Uddin M.** Biologic Embedding of Traumatic Stress Within and Between Generations. Invited Oral Presentation, University of Rwanda, College of Medicine and Health Sciences, Kigali, Rwanda, June **2016.**
16. **Uddin M** Intergenerational transmission of traumatic stress. Invited Oral Presentation, Living Peace Institute, Goma, Democratic Republic of Congo, June **2016.**

17. **Uddin M.** Biologic Embedding of Stress and Trauma in Diverse Cohorts. Invited Oral Presentation, Kariosoke Research Center, Musanze, Rwanda, June **2016**.
18. **Uddin M.** Biologic Embedding of Stress and Trauma in an Urban, Population-based Sample. Invited Oral Presentation, Society for Neuroscience, Chicago Chapter, 2016 Annual Meeting, Chicago, IL Apr. **2016**.
19. **Uddin M.** Molecular imprints of stress, trauma and resilience across the lifecourse. Invited Oral Presentation, Undergraduate Neuroscience Society, University of Illinois at Urbana-Champaign, Urbana, IL Apr. **2016**.
20. **Uddin M.** Biomarkers of stress, trauma and resilience in a community-based setting. Invited Oral Presentation Behavioral Neuroscience Seminar, Department of Psychiatry, University of Illinois at Chicago, Chicago, IL Jan. **2016**.
21. **Uddin M.** Biomarkers of stress, trauma and resilience in a community-based setting. Invited Oral Presentation National Alliance on Mental Illness, Champaign Chapter; Champaign Public Library, Champaign, IL Dec **2015**.
22. **Uddin M.** PTSD PGC Epigenetics Working Group Update. Invited Oral Presentation, International Society for Traumatic Stress Studies, PTSD Psychiatric Genomics Consortium Pre-meeting, New Orleans, LA Nov **2015**.
23. **Uddin M.** Biomarkers of stress, trauma and resilience in the Detroit Neighborhood Health Study Invited Oral Presentation Illinois Summer Neuroscience Institute, University of Illinois Urbana-Champaign, Urbana, IL May **2015**.
24. **Uddin M.** Molecular imprints of stress and trauma across the life course Invited Oral Presentation, Palmer Symposium, Loyola University, Chicago, IL April **2015**.
25. **Uddin M.** Molecular imprints of stress and trauma across the life course Invited Oral Presentation, Developmental Division Seminar Series, Department of Psychology, University of Illinois Urbana-Champaign, Champaign, IL, April **2015**.
26. **Uddin M.** Biomarkers of stress, trauma and resilience: insights from the methylome Invited Oral Presentation, Neuroscience Program Seminar Series, University of Illinois Urbana-Champaign, Urbana, IL, Mar **2015**.
27. **Uddin M.** Molecular profiles of stress and trauma: insights from population-based studies. Invited Oral Presentation, Human Sociogenomics Group Meeting, Carl R. Woese Institute for Genomic Biology, Urbana, IL, Feb. **2015**.
28. **Uddin M.** Epigenetic workgroup update to the PTSD Psychiatric Genomic Consortium. Invited Oral Presentation, Pre-meeting of the International Society for Traumatic Stress Studies, Miami, FL, Nov **2014**.

29. **Uddin M** Stress, trauma and resilience: an epigenetic perspective. Invited keynote address, American Urology Association Summer Research Conference, Baltimore, MD Sept **2014**.
30. **Uddin M**. Molecular perspectives on trauma and resilience Invited oral presentation, Behavioral Neuroscience Seminar Series, Department of Psychology, University of Illinois Urbana-Champaign, Champaign, IL Sept **2014**.
31. **Uddin M**. Epigenetic regulation of traumatic stress. Invited oral presentation, University of Arizona, Department of Psychology, Tuscon, AZ February **2014**.
32. **Uddin M**. Koenen KC Genetic Studies of PTSD in Civilian Sample. Invited oral presentation, Inaugural meeting of the PTSD workgroup of the Psychiatric Genetics Consortium, San Francisco, CA, May **2013**.
33. **Uddin M**. Biologic embedding of stress and trauma across the lifecourse. Invited oral presentation, Department of Psychology, University of Illinois-Urbana Champaign, May **2013**.
34. **Uddin M**. Biologic embedding of traumatic stress across the lifecourse. Invited oral presentation Children's Hospital of Brooklyn and SUNY Downstate Grand Rounds, Brooklyn, NY, March **2013**.
35. **Uddin M**. Molecular underpinnings of stress and trauma: insights from a population-based study. Invited oral presentation, Wayne State University Department of Psychiatry Grand Rounds, Detroit, MI, Oct **2012**.
36. **Uddin M**. The influence of social and molecular variation on mental health and illness. Invited oral presentation, Wayne State University Institute of Environmental Health Studies Seminar Series, Detroit, MI, Oct **2012**.
37. **Uddin M**. The molecular underpinnings of stress and trauma. Invited oral presentation, Merrill Palmer Skillman Institute for Child & Family Development, Detroit, MI **Sept 2012**.
38. **Uddin M**. Molecular and environmental factors associated with risk of post-traumatic stress disorder. Invited oral presentation Department of Psychology, University of Michigan, Mar **2012**.
39. **Uddin M** Molecular and environmental determinants of mental illness: insights from population-based studies. Invited oral presentation Department of Society, Human Development, and Health, Harvard University Oct **2011**.
40. **Uddin M**. Biologic signatures of mental illness: insights from population-based studies. Invited oral presentation Department of Family Medicine and Public Health Sciences, Wayne State University, Detroit, MI, Oct **2011**.

41. **Uddin M.** Genetic and genomic perspectives on psychiatric illness: insights from population-based studies. Invited oral presentation, Department of Epidemiology, Mailman School of Public Health, Columbia University, Dec **2010**.
42. **Uddin M.** Genetic and genomic perspectives on psychiatric illness: insights from population-based studies. Invited oral presentation, Center for Molecular Medicine and Genetics, Wayne State University School of Medicine, Sept **2010**.
43. **Uddin M.** Gender differences in the genetic and environmental determinants of adolescent depression. Invited oral presentation, Cultural Neuroscience: Bridging Natural and Social Sciences, Institute for Social Research/Center for Culture, Mind and the Brain, University of Michigan, Apr **2010**.
44. **Uddin M.** How do stress and trauma get under the skin? Insights from psychiatric epidemiology. Invited oral presentation, Department of Epidemiology, University of Michigan, Feb **2010**.
45. **Uddin M.** How do stress and trauma get under the skin? Insights from psychiatric epidemiology. Invited oral presentation, Department of Mental Health, Johns Hopkins University Bloomberg School of Public Health, Dec **2009**.

CONFERENCE PRESENTATIONS (* indicates individual presenting; last 5 years only).

1. Rudahindwa S*, Mutesa L, Rutembesa E, Mutabaruka J, **Uddin M.** An analysis of PTSD symptom severity domains between genocide-exposed mothers and offspring. Oral presentation, Graduate Student Symposium in Memory Studies, University of Illinois at Urbana-Champaign, Urbana, IL, Apr. **2018**.
2. Rudahindwa S*, Mutesa L, Rutembesa E, Mutabaruka J, **Uddin M.** An analysis of PTSD symptom severity domains between genocide-exposed mothers and offspring. Poster Presentation, Illinois Summit for Diversity in Psychological Science, Champaign, IL, Mar. **2018**.
3. Kim, GS*, Wildman DE, Aiello AE, Koenen KC, Galea S, **Uddin M.** Genetic regulation of SRAP nuclease expression is moderated by post-traumatic stress disorder (PTSD) status in African Americans. Poster Presentation, Cold Spring Harbor Conference on Systems Biology: Global Regulation of Gene Expression, Cold Spring Harbor, NY, Mar. **2018**.
4. Kim, GS*, Wildman DE, Aiello AE, Koenen KC, Galea S, **Uddin M.** Genetic Regulation of Gene Expression in Vulnerability and Resilience to Post-traumatic Stress Disorder in African Americans. Poster Presentation, Illinois Summit for Diversity in Psychological Science, Champaign, IL, Mar. **2018**.
5. Ratanatharathorn A, Boks M, Logue M, Maihofer A, Kilaru V, Stein M, Vermetten E, Karestan K, Aiello A, Baker D, Hauser M, Kimbrel N, Ashley-Koch A, Kuan P, Miller M, Ressler K, Nievergelt C, Smith A, **Uddin M***, Epigenetic Biomarkers of PTSD:

- Updates From the EWAS Working Group of the PGC PTSD. Oral Presentation, International Society for Traumatic Stress Studies, Chicago, IL, Nov. **2017**
6. Lowe S*, Spruha H, Aiello A, **Uddin M**, Koenen K, Cerda, M. Pathways from assaultive violence to posttraumatic stress, depression, and generalized anxiety symptoms through stressful life events. Oral Presentation, International Society for Traumatic Stress Studies, Chicago, IL, Nov. **2017**
 7. Kim GS*+, Armstrong D, Koenen KC, Aiello A, Wildman DE, **Uddin M**. Genetic and epigenetic regulation of gene expression associated with post-traumatic stress disorder. Oral Presentation, International Society for Traumatic Stress Studies, Chicago, IL, Nov. **2017**
 8. Pfeiffer JP*+, Bustamante A, Koenen KC, Nikolova Y, Hariri A, **Uddin M**. Epigenome-wide region-based methylation analysis of childhood trauma associated with functional neural phenotypes. Poster Presentation, International Society for Traumatic Stress Studies, Chicago, IL, Nov. **2017**
 9. Pfeiffer JR*+, Bustamante AC, Price JB, Tye S, **Uddin M**. Epigenetic modifications of stress-relevant genes as peripheral biomarkers of treatment-resistance depression. Poster presentation, 72nd Society for Biological Psychiatry Scientific Convention, San Diego, CA. May **2017**.
 10. Kim GS*+, Armstrong D, Koenen KC, Aiello A, Galea S, Zhao SD, Wildman DE, **Uddin M**. Sex differences in leukocyte composition and transcriptional profiles associated with lifetime PTSD. Poster presentation, 72nd Society for Biological Psychiatry Scientific Convention, San Diego, CA. May **2017**.
 11. Horesh D*, Lowe SR, Galea S, Aiello AE, **Uddin M**, Koenen KC. Women living in a chronically-traumatic environment: PTSD and depression in a longitudinal study of inner-city Detroit residents. Oral Presentation, 7th World Congress on Women's Mental Health, Dublin, Ireland, Mar. **2017**.
 12. Ratanatharathorn A, Kuan P, Armstrong A, Boks M, Laogue M, Maihofer A, Luft B, Bromet E, Miller M, Ressler K, Koenen KC, Guffanti G, Hauser M, Kimbrel N, Vermetten E, Stein M, Baker D, Nievergelt C, Smith A, **Uddin M***, PGC PTSD Epigenetics Workgroup. DNA methylation at *NRG1* may be an epigenetic biomarker of PTSD in civilian cohorts. Oral Symposium Presentation, International Society for Traumatic Stress Studies, Dallas, TX, Nov. **2016**.
 13. Armstrong D*+, Koenen KC, Smith A, Ressler K, Aiello A, Galea S, Guffanti G, Ratanatharathorn A, Wildman D, **Uddin M**. Differential methylation of imprinted genes in post-traumatic stress disorder. Oral Symposium Presentation, International Society for Traumatic Stress Studies, Dallas, TX, Nov. **2016**
 14. Ratanatharathorn A*, Aiello AE, Armstrong D, Binder EB, Bustamante AC, Galea S, Koenen KC, Kilaru V, Ressler KJ, Smith AK, Sumner JA, **Uddin M**, Wildman DE,

- Guffanti G. Region based analyses of differential methylation in post-traumatic stress disorder. Oral Symposium Presentation, International Society for Traumatic Stress Studies, Dallas, TX, Nov. **2016**
15. Bustamante A*⁺, Aiello AE, Koenen KC, Galea S, Ratanatharathorn A, Wildman DE, **Uddin M**. Epigenetic profiles associated with childhood maltreatment and post-traumatic stress disorder. Oral Presentation, International Society for Traumatic Stress Studies, Dallas, TX, Nov. **2016**.
 16. **Uddin M***. Epigenetic Signatures of Risk and Resilience in an Urban Community Setting. Oral Symposium Presentation, Epidemiology Congress of the Americas 2016. Miami, FL June **2016**.
 17. Smith A*, Ratanatharathorn A, Boks M, Logue M, Maihofer A, Kilaru V, Garrett M, Guffanti G, Vermetten E, Koenen K, Aiello A, Baker D, Hauser M, Kimbrel N, Dennis M, Ashley-Koch A, VA-MIRECC, Luft B, Bromet E, Miller M, Ressler K, **Uddin M**, Nievergelt C, PGC PTSD Epigenetics Workgroup. Epigenome-Wide Association of PTSD from Heterogeneous Cohorts with a Common Multi-Site Analysis Pipeline. Oral Presentation, 71st Society for Biological Psychiatry Scientific Convention, Atlanta, GA, May **2016**.
 18. Armstrong D*, Koenen K, Smith A, Ressler K, Aiello A, Galea S, Guffanti G, Ratanatharathorn A, Wildman D, **Uddin M**. Differential Methylation of Imprinted Genes in Post-traumatic Stress Disorder. Poster Presentation, 71st Society for Biological Psychiatry Scientific Convention, Atlanta, GA, May **2016**.
 19. Bustamante A*, Aiello AE, Koenen KC, Galea S, Wildman DE, **Uddin M**. Impact of Childhood Maltreatment and Post-traumatic Stress Disorder on the Leukocyte Transcriptome. Poster Presentation, 71st Society for Biological Psychiatry Scientific Convention, Atlanta, GA, May **2016**.
 20. Bustamante AC*, Aiello AE, Koenen KC, Galea S, Wildman DE, **Uddin M**. Epigenetic modifications of the glucocorticoid receptor (*NR3C1*). are associated with childhood maltreatment and major depressive disorder. Oral Presentation, International Society for Traumatic Stress Studies, New Orleans, LA Nov **2015**
 21. Ratanatharathorn A*, Boks M, Bromet E, Guffanti G, Koenen KC, Logue M, Luft B, Maihofer A, Miller M, Mitchell C, Ressler K, Stein M, Vermetten E, **Uddin M**, Nievergelt C, Smith A, PGC-PTSD Epigenetics Workgroup. Preliminary results from the psychiatric genomics consortium PTSD epigenetics workgroup. Oral Presentation, International Society for Traumatic Stress Studies, New Orleans, LA Nov **2015**
 22. Logue M*, Smith A, Baldwin C, Wolf E, Guffanti G, Ratanatharathorn A, Stone A, Schichman S, Humphries D, Binder E, Arloth J, Menke A, **Uddin M**, Wildman D, Galea S, Aiello A, Koenen K, Miller M. An analysis of gene expression in PTSD implicates genes involved in the glucocorticoid receptor pathway and neural responses to stress. Oral

Presentation, International Society for Traumatic Stress Studies, New Orleans, LA Nov **2015**

23. Nugent N*, **Uddin M***, Yehuda R*, Amstadter A.* Introduction to genetic and epigenetic research in traumatic stress studies Oral Presentation, Pre-meeting Institute at the International Society for Traumatic Stress Studies, Miami, FL, Nov **2014**
24. *Bustamante A, Koenen KC, Aiello AE, Galea S, Wildman D, **Uddin M** *FKBP5* does not mediate the association between childhood maltreatment and depression in the Detroit Neighborhood Health Study Oral Presentation International Society for Traumatic Stress Studies, Miami, FL, Nov **2014**
25. *Sipahi L, Aiello A, Galea S, Koenan K, Wildman D, **Uddin M** Longitudinal Epigenetic Variation at DNA Methyltransferase Genes is Associated with Risk for and Resilience to PTSD Poster Presentation International Society for Traumatic Stress Studies, Philadelphia, PA, November **2013**. Levent was a MD/PhD student in the Uddin lab.
26. *Bustamante A, Koenen K, Aiello A, Galea S, Wildman D, **Uddin M** Distinct gene expression profiles characterize lifetime PTSD and childhood maltreatment in the Detroit Neighborhood Health Study Poster Presentation International Society for Traumatic Stress Studies, Philadelphia, PA, November **2013**
27. *Walsh K, Bradley B, Galea S, Ressler K, Aiello A, Wildman D, **Uddin M**, Koenen K The SS genotype variant of 5HTTLPR protects against PTSD for inner city African Americans: Results from two independent samples Oral presentation International Society for Traumatic Stress Studies, Philadelphia, PA, November **2013**
28. *Lowe S, Walsh K, **Uddin M**, Wildman D, Galea S, Koenen K Bidirectional relationships between trauma exposure and post-traumatic stress: A longitudinal study of adults living in Detroit Oral presentation International Society for Traumatic Stress Studies, Philadelphia, PA, November **2013**
29. *Mitchell K, Aiello A, Galea S, **Uddin M**, Wildman W, Koenen K PTSD and Obesity in the Detroit Neighborhood Health Study Oral presentation International Society for Traumatic Stress Studies, Philadelphia, PA, November **2013**
30. ***Uddin M**, Zhang Z, Koenen KC, Galea S, Soliven R, Wildman DE, Aiello AE Evidence for shared molecular etiology of affective and physical disorders in the Detroit Neighborhood Health Study Oral presentation International Federation of Psychiatric Epidemiology, Leipzig, Germany June **2013**
31. Arfken A, Aiello AE, Zhang C, Galea S, Koenen KC, Meier H, **Uddin M*** Objectively assessed neighborhood disadvantage and risk of drug misuse in the Detroit Neighborhood Health Study Poster presentation International Federation of Psychiatric Epidemiology, Leipzig, Germany June **2013**

32. *Sipahi L, Aiello AE, Galea S, Koenen KC, Wildman DE, **Uddin M** Longitudinal epigenetic variation at DNA methyltransferase genes is associated with risk for and resilience to PTSD Poster presentation, Society for Biological Psychiatry Annual Conference, San Francisco, CA, May **2013** Levent was a MD/PhD student in the Uddin lab
33. Guffanti G*, Aiello AE, **Uddin M**, Wildman DE, Galea S, Koenen KC Genome-wide scan of copy number variant regions in post traumatic stress disorder Poster presentation, Annual Anxiety Disorders of America Association Meeting, La Jolla, CA Apr **2013**
34. Guffanti G*, Galea S, Yan L, Roberts AL, Solovieff N, Aiello AE, Smoller J, De Vivo I, Ranu H, **Uddin M**, Wildman DE, Purcell S, Koenen KC Genome-Wide Association Study Implicates a Novel RNA Gene, the lincRNA AC0687181, as a Risk Factor for Post-traumatic Stress Disorder in Women Oral presentation, Annual Anxiety Disorders of America Association Meeting, La Jolla, CA Apr **2013**
35. *Sipahi L, Aiello AE, Galea S, Koenen KC, Wildman DE, **Uddin M** Longitudinal epigenetic variation at DNA methyltransferase genes is associated with risk for and resilience to PTSD Poster presentation, American Psychopathological Association Annual Conference, New York, NY, March **2013** Levent was a MD/PhD student in the Uddin lab
36. *Bustamante AC, Aiello AE, Koenen KC, Galea S, Noronha C, Wildman DE, **Uddin M** Childhood maltreatment is associated with epigenetic differences in hypothalamic-pituitary-adrenal (HPA). axis genes in the Detroit Neighborhood Health Study Oral presentation, Wayne State University Department of Psychiatry and Behavioral Neurosciences Annual Research Conference, Detroit, MI, **March** 2013 Angela was a PhD student in the Uddin lab
37. *Bustamante AC, Aiello AE, Koenen KC, Galea S, Noronha C, Wildman DE, **Uddin M** Childhood maltreatment is associated with epigenetic differences in hypothalamic-pituitary-adrenal (HPA). axis genes in the Detroit Neighborhood Health Study Poster presentation, American Psychopathological Association Annual Conference, New York, NY, March **2013** Angela was a PhD student in the Uddin lab

TEACHING AND MENTORING

I. Teaching

- 2016, '17, '18 (Fall) **Course director and instructor**, (PSYC210). Behavioral Neuroscience, *University of Illinois Urbana Champaign*, Urbana, IL.
Course Description: This course provides a survey of current knowledge regarding the brain's role in perception, motivation, sexual behavior, thinking, memory, and learning, based upon human clinical data and research in animal models.
- 2015, '17, '18 (Spr.) **Course director and instructor**, Stress, Trauma and Resilience (PSYC365), *University of Illinois Urbana Champaign*, Urbana, IL.
Course Description: This course provides an overview of traumatic stress, with a particular emphasis on the biological and social factors that shape human responses to trauma. Students will become familiar with the definition and range of potentially traumatic events in various social

contexts (e.g. military vs. civilian)., as well as the genetic and environmental features that influence vulnerability vs. resilience to trauma.

- 2016, '17, '18 (Spr.) **Course instructor**, Advances in Behavioral Neuroscience (PSYC510), *University of Illinois Urbana Champaign*, Urbana, IL.
- 2015-16 **Course director and instructor**, Capstone Undergraduate Research Seminar (PSYC492), *University of Illinois Urbana Champaign*, Urbana, IL.
Course Description: A two-semester seminar for undergraduates doing advanced research. Course is taken during the senior year and provides instruction on developing effective written and oral presentations of empirical research findings, and facilitates the completion of a Bachelor's thesis.
- 2014 (Winter) **Course director and instructor**, Scientific Communication II (MBG7091). Center for Molecular Medicine and Genetics, *Wayne State University*, Detroit, MI.
Course Description: Advanced topics include organization of the NIH, function of study sections, the NIH grant application process, seeking alternative funding sources, and life after graduate school. An in depth analysis of a Citation Classic will be done to gain insights in scientific writing.
- 2014 (Winter) **Instructor**, Molecular Neuropsychopharmacology (PYC7010/IBS7050), WSU School of Medicine, Detroit, MI (Course director: Matthew Galloway).
- 2012 (Fall) **Director and instructor**, Scientific Communication I (MBG7090), Center for Molecular Medicine and Genetics, *Wayne State University*, Detroit, MI (with Wayne Lancaster).
Course Description: The course is designed to expose the student to the interpretation and presentation of scientific data in the form of written and oral communication exercises encompassing the basics of technical writing, use of electronic media, manuscript review, research paper abstraction and interview preparation. Other writing exercises include a curriculum vitae and personal statement.
- 2011-2013 **Co-director and Instructor**, Scientific Communication (MBG7090/91), Center for Molecular Medicine and Genetics, *Wayne State University*, Detroit, MI (with Wayne Lancaster).
- 2011, '12, '13 (Fall) **Instructor**, Molecular Biology (IBS7010), Center for Molecular Medicine and Genetics, *Wayne State University*, Detroit, MI (Course director; Ladislau Kovari).
- 2011 (Spring) **Co-director**, Field Methods in Epidemiology (Epid 655), Department of Epidemiology, *University of Michigan*, Ann Arbor, MI (with Lynda Lisabeth).
Course Description: Provides students with an opportunity to apply theoretical concepts learned in prior and concurrent coursework in epidemiology to the design and execution of an epidemiologic investigation in a pre-specified topic area. Students work both

individually and within small groups to examine a research question(s) within their pre-specified topic area, formulate constructs related to their specific research question, develop a tool (questionnaire) to measure these constructs, and consider ways to examine the validity of their measurements. Student groups then conduct a pilot study in the field and present their findings in both written and oral report formats at the end of the term.

2009-2011 **Seminar Director**, Center for Social Epidemiology and Population Health, *University of Michigan*, Ann Arbor, MI.

2000-2001 **Teaching Assistant**, Introduction to Human Evolution, *New York University*, Department of Anthropology, NY, NY.

II. Mentoring: Graduate Students, Postdocs and Research Scientists

2015-present **PhD Mentor**, John Pfeiffer, PhD student, Department of Psychology, *University of Illinois Urbana-Champaign*, Urbana, IL.

2015-present **PhD Mentor**, Grace Kim, MD/PhD student, Neuroscience Program, *University of Illinois Urbana-Champaign*, Urbana, IL.

2017- 2018 **PhD Mentor**, Brianna Bucknor, PhD student, Department of Psychology, *University of Illinois Urbana-Champaign*, Urbana, IL.

2014-2015 **PhD Mentor**, Tabitha Morris, PhD student, Neuroscience Program, *University of Illinois Urbana-Champaign*, Urbana, IL.

2012-2017 **PhD Mentor**, Angela Bustamante, Center for Molecular Medicine and Genetics, *Wayne State University*, Detroit, MI; Neuroscience Program, *University of Illinois-Urbana Champaign*, IL.

2011-2014 **Co-PhD mentor**, Levent Sipahi, MD/PhD Candidate, Center for Molecular Medicine and Genetics, *Wayne State University*, Detroit, MI.

2018 **Comprehensive exam committee member**, Haley Hanson, College of Public Health, *University of South Florida*, Tampa, FL

2018 **Dissertation Committee member**, Stephanie Matt, Neuroscience Program, *University of Illinois Urbana-Champaign*, Urbana, IL

2018 **Preliminary exam committee member**, Mariam Camacho, Neuroscience Program, *University of Illinois Urbana-Champaign*, Urbana, IL

2017 **Dissertation Committee Member**, Alex Brooks, Neuroscience Program, *University of Illinois Urbana-Champaign*, Urbana, IL.

2017 **Preliminary exam committee member**, Stephanie Matt, Neuroscience Program, *University of Illinois Urbana-Champaign*, Urbana, IL

2017 **Qualifying exam committee member**, Sara Westbrook, PhD student, Department of Psychology, *University of Illinois Urbana-Champaign*, Urbana, IL

2017 **Qualifying exam committee member**, Tiffany Yang, PhD student, Department of Psychology, *University of Illinois Urbana-Champaign*, Urbana, IL

2017 **Qualifying exam committee member**, Francheska Merced-Nieves, PhD student, Neuroscience Program, *University of Illinois Urbana-Champaign*, Urbana, IL

- 2015-2017 **Research Scientist Supervisor**, Don Armstrong, Carl R. Woese Institute for Genomic Biology, *University of Illinois Urbana-Champaign*, Urbana, IL (Co-supervised with D. Wildman).
- 2016 **Dissertation Committee Member**, Petra Majdak, Neuroscience Program, *University of Illinois Urbana-Champaign*, Urbana, IL.
- 2016 **Preliminary exam committee member**, Alex Brooks, Neuroscience Program, *University of Illinois Urbana-Champaign*, Urbana, IL
- 2016 **Qualifying exam committee member**, Carly Drzewiecki, PhD student, Neuroscience Program, *University of Illinois Urbana-Champaign*, Urbana, IL
- 2015 **Qualifying exam committee member**, Alex Brooks and Stephanie Matt, PhD students, Neuroscience Program; and Mary Rogers, Department of Anthropology, *University of Illinois Urbana-Champaign*, Urbana, IL.
- 2012-2013 **Dissertation Committee Member**, Natalie Jameson, Center for Molecular Medicine and Genetics, *Wayne State University*, Detroit, MI.
- 2012-2014 **Postdoctoral Supervisor**, Lisa Nevell, Center for Molecular Medicine and Genetics, *Wayne State University*, Detroit, MI. (Co-supervised with D. Wildman).
- 2014 (Winter) **Rotation Supervisor**, Amara Sugalski, CMMG PhD Candidate, *Wayne State University*, Detroit, MI.
- 2012 (Summer) **Rotation Supervisor**, Arash Kairandish, MD/PhD Candidate; and Carol Noronha, Summer Undergraduate Research Participant, *Wayne State University*, Detroit, MI.
- 2010 **Dissertation Committee Member**, Jennifer Smith, Department of Epidemiology, *University of Michigan*, Ann Arbor, MI.
- 2010-2011 **Master's thesis supervisor**, Lauren Johns, Department of Epidemiology, *University of Michigan*, Ann Arbor, MI.
- 2009-2010 **Postdoctoral Supervisor**, Satoshi Toyokawa, Department of Epidemiology, *University of Michigan*, Ann Arbor, MI.

III. Mentoring: Undergraduate Students

- 2/2017-present **Undergraduate Research Supervisor**, Susan Rudahindwa, *University of Illinois at Urbana-Champaign*. Susan is completing an individually-designed major in Neuroscience and is taking research credit in my laboratory. She is completing a project that contributes to the recently awarded U01 with the University of Rwanda, in which she is testing for differences in PTSD symptom domains among survivors of the Rwandan genocide and their offspring compared to demographically matched controls.
- 8/2016-12/2017 **Undergraduate Research Supervisor**, Aishwarya Raj, *University of Illinois at Urbana-Champaign*. Aishwarya is a Biochemistry major who took research credits in my laboratory. She was awarded a summer research opportunity award from the school of Molecular and Cellular Biology to support her research in my lab during the summer of 2017.
- 2015-2017 **Undergraduate Research and Thesis Supervisor**, Myrna Sobhy, Undergraduate thesis title: Stress is Associated with Increased DNA Methylation in Select HPA-Axis Genes in the Rodent Adrenal Gland, *University of Illinois at Urbana-Champaign*.

- 2015 (Summer) **Rotation Supervisor**, Lucas Schad, Summer student from the University of Minnesota, supported by the UIUC-Mayo Clinic Alliance, *University of Illinois at Urbana-Champaign*.
- 2013 (Summer) **Rotation Supervisor**, Eren Sipahi, Summer Undergraduate Research Participant, *Wayne State University*, Detroit, MI. This work formed the basis for Eren's honor thesis, which was awarded a "high pass" grade.
- 2012 (Summer) **Rotation Supervisor**, Carol Noronha, Summer Undergraduate Research Participant, *Wayne State University*, Detroit, MI. Carol collected original data that contributed to a publication on which she became an author (Bustamante et al., 2016).