

Curriculum Vitae

Allison Elizabeth Aiello

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Work Address: University of North Carolina at Chapel Hill
Gillings School of Global Public Health
2101 McGavran-Greenberg Hall
Campus Box 7435
Chapel Hill, NC 27599-7435

Email: aaielo@unc.edu

Telephone: 919-966-2149

Fax: 919-966-2089

Webpage: <http://www.aielloresearchgroup.org>

Education

- PhD (with distinction) in Epidemiology, Columbia University, New York, 2003
- MS in Environmental Sciences, University of North Carolina-SPH, Chapel Hill, 1998
- BS in Environmental Sciences (Major) and African American Studies (Minor), University of Massachusetts, Amherst, 1995

Positions

1/2014-Present	Professor of Epidemiology Social Epidemiology Program Leader Gillings School of Global Public Health, University of North Carolina at Chapel Hill
2017-Present	Integrating Special Populations Program Director North Carolina Translational & Clinical Sciences Institute University of North Carolina School of Medicine
2014-Present	Carolina Population Center Fellow University of North Carolina at Chapel Hill
2010-12/2013	Associate Professor of Epidemiology University of Michigan School of Public Health, Department of Epidemiology and Center for Social Epidemiology and Population Health, Ann Arbor, MI
9/2010-12/2010	Yerby Visiting Associate Professor of Epidemiology Harvard School of Public Health, Boston, MA
2009-2010	John G. Searle Assistant Professor of Public Health University of Michigan School of Public Health, Department of Epidemiology, Ann Arbor, MI

2005-2010 Assistant Professor of Epidemiology
University of Michigan School of Public Health, Department of Epidemiology, Center for Social Epidemiology and Population Health, Ann Arbor, MI

2003-2005 Robert Wood Johnson Health & Society Scholar
University of Michigan School of Public Health, Department of Epidemiology, Center for Social Epidemiology and Population Health, Ann Arbor, MI

2002-2003 Research Fellow
National Institute of Allergy and Infectious Diseases (NIAID) Fellow, Center for Infectious Disease and Epidemiological Research, Columbia University Mailman School of Public Health, New York, NY

1998-1999 Emerging Infectious Diseases Fellow
Centers for Disease Control and Prevention (CDC), Division of Parasitic Diseases, Molecular Vaccine Section, Immunology Branch, Atlanta, GA

Distinctions (Academic and Research)

2017 Elected to Interdisciplinary Association of Population Health (IAPHS) Board of Directors

2013 Epidemiology Student Organization Award for “Most Hardworking Faculty,” UM-SPH

2010 Yerby Visiting Associate Professor of Epidemiology, Harvard SPH

2009 John G. Searle Assistant Professor of Public Health, UM-SPH

2006, 2007 Junior Faculty Training Award, University of Michigan Older Americans Independence Center Research Career Development Core, National Institute on Aging

2005-2010 Health Disparities Loan Repayment Program Award, NIH

2004 Anna C. Gelman Award for outstanding achievement and promise in the field of Epidemiology, Columbia University Mailman School of Public Health

2003-2005 Robert Wood Johnson Foundation Health and Society Scholar

2003 Ph.D. with distinction, Columbia University

2002-2003 NIH Training fellowship, Center for Infectious Disease and Epidemiological Research, Columbia University

1998-1999 Emerging Infectious Diseases fellowship, National Center for Infectious Disease and CDC

Professional Service / Consulting

2017-present Epidemiological Consultant for Cascades Tissue Group, Cascades Canada ULC

2017 Society for Epidemiologic Research, Student Workshop Mentor

2016-present American Journal of Epidemiology, Editorial Board Member

2016-present Current Epidemiology Reports, Social Epidemiology Section Editor

2015-present Annual Reviews of Public Health, Editorial Board Member

2012-2017 Member of the Social Sciences and Population Studies B Study Section, NIH

2009-present BMC Public Health, Editorial Advisor (2010-present), Associate Editor (2009-2010)

2013-2014 Coauthored Compendium of Strategies to Prevent Healthcare Associated Infections in Acute Care Hospitals, Society for Health Care Epidemiology of America (SHEA)

2011-2016 Grant & Eisenhofer (formerly Wolf Haldenstein Adler Freeman & Herz), Litigation Consultant

2010-2011 Institute of Medicine, Committee on Personal Protective Equipment for Healthcare Workers During an Influenza Pandemic

2009-2013 SCA-Tork Consultant and Member of the Tork Green Hygiene Council

2009 Unilever, Consultant on Hand Hygiene Community Intervention

2007 International Scientific Forum on Home Hygiene

2006-present American College of Epidemiology, Member

2006-2010 American College of Epidemiology Minority Affairs Committee Member (2006-2010)

2006, 2007 Alliance for the Prudent Use of Antibiotics, Hygiene for a Healthy Household Section

2005 U.S. Food and Drug Administration, Center for Drug Evaluation and Research (CDER), Expert guest speaker
2004-2008 American Journal of Infection Control, Editorial Board Member

Ad-Hoc Peer Review for the following journals and many others: *American Journal of Epidemiology, American Journal of Public Health, Annals of Behavioral Medicine, Annals of Internal Medicine, British Medical Journal, Circulation, Emerging Infectious Diseases, Environmental Health Perspectives, Epidemiology, Journal of the American Geriatrics Society, Journal of Immunology, Lancet, Lancet Infectious Diseases, Nature Medicine, Pediatrics, PloS ONE, PloS Medicine, Proceedings of the Royal Society- Biological Sciences, Social Science and Medicine*

Publications

(Underline indicates a mentee/student; †Corresponding author)

Google H-Index: 52 (08/09/17)

Peer-Reviewed

158. Stoner MCD, Pettifor A, Edwards JK, **Aiello AE**, Halpern CT, Julien A, Selin A, Twine R, Hughes JP, Wang J, Agyei Y, Gomez-Olive FX, Wagner RG, Macphail C, Kahn K (2017) The effect of school attendance and school dropout on incident HIV and HSV-2 among young women in rural South Africa enrolled in HPTN 068. *AIDS*. [Epub ahead of print] PMID: 28692544

157. 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 Neuropsychiatr Genet*. 2017 Jul 10. doi: 10.1002/ajmg.b.32568. [Epub ahead of print] PMID:28691784

156. Halden RU, Lindeman AE, **Aiello AE**, Andrews D, Arnold WA, Fair P, Fuoco RE, Geer LA, Johnson PI, Lohmann R, McNeill K, Sacks VP, Schettler T, Weber R, Zoeller RT, Blum A (2017) The Florence Statement on Triclosan and Triclocarban. *Environ Health Perspect*. 2017 Jun 20;125(6):064501. doi: 10.1289/EHP1788. PMID: 28632490

155. **Aiello AE**, Chiu YL, Frasca D (2017) How does cytomegalovirus factor into diseases of aging and vaccine responses, and by what mechanisms? *Geroscience*. 2017 Jun;39(3):261-271. doi: 10.1007/s11357-017-9983-9. Epub 2017 Jun 18. PMID: 28624868

154. Liu RS, **Aiello AE**, Mensah FK, Gasser CE, Rueb K, Cordell B, Juonala M, Wake M, Burgner DP (2017) Socioeconomic status in childhood and C reactive protein in adulthood: a systematic review and meta-analysis. *J Epidemiol Community Health*. 2017 May 10. pii: jech-2016-208646. doi: 10.1136/jech-2016-208646. [Epub ahead of print] Review. PMID:28490476

153. Ward JB, Feinstein L, Vines AI, Robinson WR, Haan MN, **Aiello AE**† (2017) Perceived discrimination and depressive symptoms among US Latinos: the modifying role of educational attainment. *Ethn Health*. 2017. Apr 12:1-16. doi: 10.1080/13557858.2017.1315378. [Epub ahead of print] PMID: 28399649

152. Dong F, Howard AG, Herring AH, Thompson AL, Adair LS, Popkin BM, **Aiello AE**, Zhang B, Gordon-Larsen P (2017) Parent-child associations for changes in diet, screen time, and physical activity across two decades in modernizing China: China Health and Nutrition Survey 1991-2009. *Int J Behav Nutr Phys Act*. 2016 Nov 11;13(1):118. PMID: 27835960

151. Horesh D, Lowe SR, Galea S, **Aiello AE**, Uddin M, Koenen KC (2017) An in-depth look into PTSD-depression comorbidity: A longitudinal study of chronically-exposed Detroit residents. *J Affect Disord*. 2017 Jan 15;208:653-661. doi: 10.1016/j.jad.2016.08.053. Epub 2016 Oct 24. PMID: 27816322

150. Cordoba E, **Aiello AE† (2016)** Social Determinants of Influenza Illness and Outbreaks in the United States. *N C Med J*. 2016 Sep-Oct;77(5):341-5. doi: 10.18043/ncm.77.5.341. PMID: 27621346
149. Garcia L, Lee A, **Zeki AL Hazzouri A**, Neuhaus JM, Moyce S, Aiello A, Elfassy T, Haan MN **(2016)** The influence of neighborhood socioeconomic position on the transition to type II diabetes in older Mexican Americans: The Sacramento Area Longitudinal Study on Aging. *BMJ Open*, 6 (8):e010905, 2016. PMC4985827.
148. Meier HC, Haan MN, Mendes de Leon CF, Simanek AM, Dowd JB, **Aiello AE† (2016)** Early life socioeconomic position and immune response to persistent infections among elderly Latinos. *Soc Sci Med*. 2016 Oct;166:77-85. doi: 10.1016/j.socscimed.2016.07.004. Epub 2016 Jul 5. PMID: 27543684
147. Bustamante AC, **Aiello AE**, Galea S, Ratanatharathorn A, Noronha C, Wildman DE, Uddin M **(2016)** Glucocorticoid receptor DNA methylation, childhood maltreatment and major depression. *J Affect Disord*. 2016 Jul 19;206:181-188. doi: 10.1016/j.jad.2016.07.038. [Epub ahead of print] PMID: 27475889
146. Ward JB, Haan MN, Garcia ME, Lee A, To TM, **Aiello AE† (2016)** Intergenerational education mobility and depressive symptoms in a population of Mexican origin. *Ann Epidemiol*. 2016 Jul;26(7):461-6. doi: 10.1016/j.annepidem.2016.05.005. Epub 2016 May 31. PMID: 27346705
145. 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*. 2016;62(2):208-21. doi: 10.1080/19485565.2016.1172199. PMID: 27337555
144. Dong F, Howard AG, Herring AH, Adair LS, Thompson AL, Popkin BM, **Aiello AE**, Zhang B, Gordon-Larsen P **(2016)** Concordance of haemoglobin A1c, blood pressure and C-reactive protein between children and their parents in Chinese households. *Pediatr Obes*. 2016 Jun 8. doi: 10.1111/ijpo.12160. [Epub ahead of print] PMID: 27273455
143. **Aiello AE†**, Simanek AM, Eisenberg MC, Walsh AR, Davis B, Volz E, Cheng C, Rainey JJ, Uzicanin A, Gao H, Osgood N, Knowles D, Stanley K, Tarter K, Monto AS **(2016)** Design and methods of a social network isolation study for reducing respiratory infection transmission: The eX-FLU cluster randomized trial. *Epidemics*. 2016 Jun;15:38-55. doi: 10.1016/j.epidem.2016.01.001. Epub 2016 Feb 1. PMID: 27266848
142. Feinstein L, Douglas CE, Stebbins RC, Pawelec G, Simanek AM, **Aiello AE (2016)** Does cytomegalovirus infection contribute to socioeconomic disparities in all-cause mortality? *Mech Ageing Dev*. 2016 Sep;158:53-61. doi: 10.1016/j.mad.2016.06.001. Epub 2016 Jun 4. PMID: 27268074
141. **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*. 2016 Jul-Aug;78(6):657-66. doi: 10.1097/PSY.0000000000000320. PMID: 27187853
140. **Aiello AE†**, Dowd JB, Jayabalasingham B, Feinstein L, Uddin M, Simanek AM, Cheng CK, Galea S, Wildman DE, Koenen K, Pawelec G **(2016)** PTSD is associated with an increase in aged T cell phenotypes in adults living in Detroit. *Psychoneuroendocrinology*. 2016 May;67:133-41. doi: 10.1016/j.psyneuen.2016.01.024. Epub 2016 Feb 3. PMID: 26894484
139. Haan MN, Lee A, Odden MC, **Aiello AE**, To TM, Neuhaus JM **(2016)** Gender Differences in the Combined Effects of Cardiovascular Disease and Osteoarthritis on Progression to Functional Impairment in Older Mexican Americans. *J Gerontol A Biol Sci Med Sci*. 2016 Aug;71(8):1089-95. doi: 10.1093/gerona/glw014. Epub 2016 Feb 17. PMID: 26893469
138. Mota N, Sumner JA, Lowe SR, Neumeister A, Uddin M, **Aiello AE**, Wildman DE, Galea S, Koenen KC, Pietrzak RH **(2016)** The rs1049353 polymorphism in the CNR1 gene interacts with childhood abuse to predict posttraumatic threat symptoms. *J Clin Psychiatry*. 2015 Dec;76(12):e1622-3. doi: 10.4088/JCP.15110084. No abstract available.

137. Attard SM, Howard AG, Herring AH, Zhang B, Du S, **Aiello AE**, Popkin BM, Gordon-Larsen P (2015) Differential associations of urbanicity and income with physical activity in adults in urbanizing China: findings from the population-based China Health and Nutrition Survey 1991-2009. *Int J Behav Nutr Phys Act*. 2015 Dec 12;12:152. doi: 10.1186/s12966-015-0321-2. PMID: 26653097
136. Weckle A, **Aiello AE**, Uddin M, Galea S, Coulborn RM, Soliven R, Meier H, Wildman DE (2015) Rapid Fractionation and Isolation of Whole Blood Components in Samples Obtained from a Community-based Setting. *J Vis Exp*. 2015 Nov 30;(105). doi: 10.3791/52227. PMID: 26649992
135. Wingo AP, Almlı 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. *Nature Communications*. Dec 3;6:10106. doi: 10.1038/ncomms10106. PMID: 26632874. Erratum in: *Nat Commun*. 2016;7:10958. Stevens, Jennifer J [Corrected to Stevens, Jennifer S].
134. Meyers JL, Salling MC, Almlı LM, Ratanatharathorn A, Uddin M, Galea S, Wildman DE, **Aiello AE**, Bradley B, Ressler K, Koenen KC (2015) Frequency of alcohol consumption in humans; the role of metabotropic glutamate receptors and downstream signaling pathways. *Transl Psychiatry*. Jun 23;5:e586. PMID: 26101849, PMCID: PMC4490281.
133. Grace EL, Burgio LD, Allen RS, DeCoster J, **Aiello AE**, Algase DL (2015) Caregiver and care recipient characteristics as predictors of psychotropic medication use in community-dwelling dementia patients. *Aging Ment Health*. 2015 Aug 25:1-8. PMID: 26304301.
132. 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(4):e537-e538. PMID: 25919853, PMCID: PMC4526154.
131. Davis BM, Markel H, Navarro A, Wells E, Monto AS, **Aiello AE** (2015) The Effect of Reactive School Closure on Community Influenza-Like Illness Counts in the State of Michigan During the 2009 H1N1 Pandemic. *Clinical Infectious Disease*. pii: civ182. [Epub ahead of print] PMID: 25896795.
130. Botosaneanu A, Bennett JM, Nyquist L, Shinkai S, Fujiwara Y, Yoshida H, **Aiello A**, Cigolle CT, Liang J (2015) Cardiometabolic Risk, Socio-Psychological Factors, and Trajectory of Grip Strength Among Older Japanese Adults. *Journal of Aging and Health*. pii: 0898264315577587. [Epub ahead of print] PMID: 25903979.
129. Logue MW, Smith AK, Baldwin C, Wolf EJ, Guffanti G, Ratanatharathorn A, Stone A, Schichman SA, Humphries D, Binder EB, Arloth J, 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. [Epub ahead of print] PMID: 25867994, PMCID: PMC4437870.
128. Demmer RT, Gelb S, Suglia SF, Keyes KM, **Aiello AE**, Colombo PC, Galea S, Uddin M, Koenen KC, Kubzansky.(2015) Sex Differences in the Association Between Depression, Anxiety, and Type 2 Diabetes Mellitus. *Psychosomatic Medicine*. [Epub ahead of print] PMID: 25867970, PMCID: PMC4431947.
127. Zeki Al Hazzouri A, Haan MN, Robinson W, Gordon-Larsen P, Clayton E, Garcia L, **Aiello AE**† (2015) Associations of intergenerational education with waist circumference, metabolic syndrome, and type-2 diabetes in US Latinos. *Obesity*. 23(5):1097-1104 PMID: 25809593, PMCID: PMC4414717.
126. de Lastours V, Malosh RE, **Aiello AE**, Foxman B.(2015) Prevalence of *Escherichia coli* Carriage in the Oropharynx of Ambulatory Children and Adults with and without Upper Respiratory Symptoms. *Annals of the American Thoracic Society*. 12(3):461-3. PMID: 25786154.
125. Lowe SR, Meyers JL, Galea S, **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*. 2015 Mar 8:e00323. [Epub ahead of print] PMID: 25798337, PMCID: PMC4356849.

124. Markovitz AA, Simanek AM, Yolken RH, Galea S, Koenen KC, Chen S, **Aiello AE**†. (2015) Toxoplasma gondii and anxiety disorders in a community-based sample. *Brain Behav Immun*. 43:192-7. PMID: 25124709.
123. Barnes LL, Capuano AW, **Aiello AE**, Turner AD, Yolken RH, Torrey EF, Bennett DA. (2015) Cytomegalovirus infection and risk of Alzheimer disease in older black and white individuals. *J Infect Dis*. 15;211(2):230-7. PMID: 25108028, PMCID: PMC4326304.
122. Simanek AM, Dowd JB, Zajacova A, **Aiello AE**†. (2014) Unpacking the 'black box' of total pathogen burden: is number or type of pathogens most predictive of all-cause mortality in the United States? *Epidemiol Infect*. 18:1-11. [Epub ahead of print] PMID: 25518978.
121. Wolf EJ, Mitchell KS, Logue MW, Baldwin CT, Reardon AF, **Aiello A**, Galea S, Koenen KC, Uddin M, Wildman D, Miller MW (2014) The dopamine D3 receptor gene and posttraumatic stress disorder. *J Trauma Stress*. 2014 Aug;27(4):379-87. PMID: 25158632, PMCID: PMC4147673.
120. Lim JK, Kilgore PE, **Aiello AE**, Foxman B, Letson GW, Jang GY, Chung E, Song YH, Kim YK. (2014) Impact of time-to-treatment of Oseltamivir on influenza hospitalization costs among Korean children. *Pediatr Int*. [Epub ahead of print] PMID: 25330041.
119. 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*. 50:139-48 PMID: 25218654, PMCID: PMC4306348.
118. Sipahi L, Wildman DE, **Aiello AE**, Koenen KC, Galea S, Abbas A, Uddin M. (2014) Longitudinal epigenetic variation of DNA methyltransferase genes is associated with vulnerability to post-traumatic stress disorder. *Psychol Med*. Nov;44(15):3165-79. Epub PMID: 25065861, PMCID: PMC4530981.
117. Rosenthal M, **Aiello A**, Larson E, Chenoweth C, Foxman B. (2014) Healthcare Workers' Hand Microbiome May Mediate Carriage of Hospital Pathogens. *Pathogens*. 3(1), 1-13. PMID: 25437604, PMCID: PMC4235731.
116. Ellingson K, Haas JP, **Aiello AE**, Kusek L, Maragakis LL, Olmsted RN, Perencevich E, Polgreen PM, Schweizer ML, Trexler P, VanAmringe M, Yokoe DS. (2014) Strategies to Prevent Healthcare-Associated Infections through Hand Hygiene. *Infect Control Hosp Epidemiol*. 35(8):937-960. PMID: 25026608.
115. Sumner JA, Pietrzak RH, **Aiello AE**, Uddin M, Wildman DE, Galea S, Koenen KC. (2014) Further Support for an Association between the Memory-Related Gene WWC1 and Posttraumatic Stress Disorder: Results from the Detroit Neighborhood Health Study. *Biol Psychiatry*. PMID: 24947539, PMCID: PMC4318800.
114. Sipahi L, Uddin M, Hou ZC, **Aiello AE**, Koenen KC, Galea S, Wildman DE. (2014) Ancient evolutionary origins of epigenetic regulation associated with posttraumatic stress disorder. *Front Hum Neurosci*. 2014 May 13;8:284. doi: 10.3389/fnhum.2014.00284. eCollection 2014. PMID: 24860472, PMCID: PMC4026723.
113. Tracy M, Morgenstern H, Zivin K, **Aiello AE**, Galea S. (2014) Traumatic event exposure and depression severity over time: results from a prospective cohort study in an urban area. *Soc Psychiatry Psychiatr Epidemiol*. [Epub ahead of print] PMID: 24816599.
112. Soyemi K, Medina-Marino A, Sinkowitz-Cochran R, Schneider A, Njai R, McDonald M, Glover M, Garcia J, **Aiello AE**. (2014) Disparities among 2009 Pandemic Influenza A (H1N1) Hospital Admissions: A Mixed Methods Analysis - Illinois, April-December 2009. *PLoS One*. 9(4):e84380. PMID: 24776852, PMCID: PMC4002432.
111. Lim JK, Kim TH, Kilgore PE, **Aiello AE**, Choi BM, Lee KC, Yoo KH, Song YH, Kim YK. (2014) The Association between Influenza Treatment and Hospitalization-Associated Outcomes among Korean Children with Laboratory-Confirmed Influenza. *J Korean Med Sci*. 29(4):485-93. PMID: 24753694, PMCID: PMC3991790.

110. Nevell L, Zhang K, **Aiello AE**, Koenen K, Galea S, Soliven R, Zhang C, Wildman DE, Uddin M. (2014) Elevated systemic expression of ER stress related genes is associated with stress-related mental disorders in the Detroit Neighborhood Health Study. *Psychoneuroendocrinology*. 43:62-70. PMID: 24703171, PMCID: PMC4106129.
109. Wong VS, Cowling BJ, **Aiello AE** (2014) Hand hygiene and risk of influenza virus infections in the community: a systematic review and meta-analysis. *Epidemiology and Infection*. 142(5):922-32. PMID: 24572643.
108. McCarty CA, Huggins W, **Aiello AE**, Bilder RM, Hariri A, Jernigan TL, Newman E, Sanghera DK, Strauman TJ, Zeng Y, Ramos EM, Junkins HA; PhenX RISING network. (2014) PhenX RISING: real world implementation and sharing of PhenX measures. *BMC Med Genomics*. 7(1):16. PMID: 24650325, PMCID: PMC3994539.
107. Rosenthal M, **Aiello AE**, Chenoweth C, Goldberg D, Larson E, Gloor G, Foxman B. (2014) Impact of technical sources of variation on the hand microbiome dynamics of healthcare workers. *PLoS One*. 9(2):e88999. PMID: 24551205, PMCID: PMC3925205.
106. Malosh R, Ohmit SE, Petrie JG, Thompson MG, **Aiello AE**, Monto AS. (2014) Factors associated with influenza vaccine receipt in community dwelling adults and their children. *Vaccine*. 32(16):1841-7. PMID: 24530926, PMCID: PMC4084780.
105. Solovieff N, Roberts AL, Ratanatharathorn A, Haloosim M, De Vivo I, King AP, Liberzon I, **Aiello A**, Uddin M, Wildman DE, Galea S, Smoller JW, Purcell SM, Koenen KC. (2014) Genetic Association Analysis of 300 Genes Identifies a Risk Haplotype in SLC18A2 for Post-traumatic Stress Disorder in Two Independent Samples. *Neuropsychopharmacology*. [Epub ahead of print] PMID: 24525708, PMCID: PMC4059895.
104. Tarter KD, Simanek AM, Dowd JB, **Aiello AE**. (2014) Persistent viral pathogens and cognitive impairment across the lifecourse in the Third National Health and Nutrition Examination Survey. *Journal of Infectious Diseases*. 209(6):837-44. PMID: 24253286, PMCID: PMC3935478.
103. Guffanti G, Galea S, Yan L, Roberts AL, Solovieff N, **Aiello AE**, Smoller JW, De Vivo I, Ranu H, Uddin M, Wildman DE, Purcell S, Koenen KC. (2013) Genome-wide association study implicates a novel RNA gene, the lincRNA AC068718.1, as a risk factor for post-traumatic stress disorder in women. *Psychoneuroendocrinology*. 38(12): 3029-38. PMID: 24080187, PMCID: PMC3844079.
102. Meyers JL, Cerdá M, Galea S, Keyes KM, **Aiello AE**, Uddin M, Wildman DE, Koenen KC. (2013) Interaction between polygenic risk for cigarette use and environmental exposures in the Detroit Neighborhood Health Study. *Transl Psychiatry*. 3:e290. PMID: 23942621, PMCID: PMC3756291.
101. Mitchell KS, **Aiello AE**, Galea S, Uddin M, Wildman D, Koenen KC. (2013) PTSD and obesity in the Detroit neighborhood health study. *Gen Hosp Psychiatry*. 35(6):671-3. PMID: 24035634, PMCID: PMC3823753.
100. Shrestha S, Foxman B, Dawid S, **Aiello AE**, Davis BM, Berus J, Rohani P. (2013) Time and dose-dependent risk of pneumococcal pneumonia following influenza: a model for within-host interaction between influenza and Streptococcus pneumoniae. *J R Soc Interface*. 10(86). PMID: 23825111, PMCID: PMC3730679.
99. Sealy-Jefferson S, Gillespie BW, **Aiello AE**, Haan MN, Morgenstern LB, Lisabeth LD. (2013) Antibody levels to persistent pathogens and incident stroke in mexican americans. *PLoS One*. 8(6):e65959. PMID: 23799066, PMCID: PMC3682951.
98. Dowd JB, Palermo T, Brite J, McDade TW, **Aiello A**. (2013) Seroprevalence of Epstein-Barr virus infection in U.S. children ages 6-19, 2003-2010. *PLoS One*. 8(5):e64921. PMID: 23717674, PMCID: PMC3661547, PMCID: PMC3754421.
97. Uddin M, Galea S, Chang SC, Koenen KC, Goldmann E, Wildman DE, **Aiello AE**. (2013) Epigenetic Signatures May Explain the Relationship Between Socioeconomic Position and Risk of Mental Illness: Preliminary Findings from an

Urban Community Based Sample. *Biodemography and Social Biology*. 59(1):68-84. PMID: 23701537, PMCID: PMC3754421.

96. Walsh K, Koenen KC, **Aiello AE**, Uddin M, Galea S. (2013) Prevalence of Sexual Violence and Posttraumatic Stress Disorder in an Urban African-American Population. *J Immigr Minor Health*. [Epub ahead of print]. PMID: 23686528, PMCID: PMC3797217.

95. Dowd JB, Bosch JA, Steptoe A, Blackburn EH, Lin J, Rees-Clayton E, **Aiello AE**. (2013) Cytomegalovirus is associated with reduced telomerase activity in the Whitehall II cohort. *Experimental Gerontology*. 48(4):385-90. PMID: 23403382, PMCID: PMC3626117.

94. Uddin M, Chang SC, Zhang C, Ressler K, Mercer KB, Galea S, Keyes KM, McLaughlin KA, Wildman DE, **Aiello AE**, Koenen KC. (2013) Adcyap1r1 genotype, posttraumatic stress disorder, and depression among women exposed to childhood maltreatment. *Depression and Anxiety*. 30(3):251-8. PMID: 23280952, PMCID: PMC4081452.

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Editorials/Comments, Reviews, Books/Chapters/Monographs

Editorials/Comments:

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8. Gowda C, Hadley C, **Aiello AE (2013)** Response to comment on: The association between food insecurity and inflammation in the US adult population. Gowda et al. respond. *Am J Public Health*. 2013 Jan;103(1):e4-5. PMID: 23153161, PMCID: PMC3518326.
7. Gowda C, Hadley C, **Aiello AE (2013)** Response to comment on: The association between food insecurity and inflammation in the US adult population. Gowda et al. respond. *Am J Public Health*. 2013 Mar;103(3):e6. PMID: 23327268, PMCID: PMC3673527.
6. **Aiello AE** and Simanek AM (2012) Invited Editorial. CMV and Immunological Aging: The Real Driver of HIV and Heart Disease? *Journal of Infectious Diseases*. 205(12):1772-4. PMID: 22492854.
5. Jeon CY, **Aiello AE (2012)** Comment on: Rayner et al. Stomach bugs and diabetes: An astounding observation or just confounding? *Diabetes Care*. Oct;35(10):e74. PMID: 22996187, PMCID: PMC3447840.
4. Jeon CY, Haan MN, Cheng C, Clayton ER, Mayeda ER, Miller JW, **Aiello AE (2012)** Response to Comment on: Jeon et al. Helicobacter pylori Infection Is Associated With an Increased Rate of Diabetes. *Diabetes Care*. 35(7):e56. PMID: 22723591, PMCID: PMC3379581.
3. Jeon CY, Haan MN, Cheng C, Clayton ER, Mayeda ER, Miller JW, **Aiello AE (2012)** Response to Comment on: Jeon et al. Helicobacter pylori Infection Is Associated With an Increased Rate of Diabetes. *Diabetes Care*. 35(7):e54. PMID: 22723589, PMCID: PMC3379582.
2. Roberts, ET, Haan, MN, Dowd JB, **Aiello AE (2010)** Roberts et al. respond to "Human CMV, inflammation, and mortality" *American Journal of Epidemiology*. 172(4):375-6. PMID: 20660118, PMCID: PMC3133814.
1. Eisenberg J, **Aiello, AE**, Spicknall, I, Monto AS, Reingold A. (2009) Commentary: Protecting the herd from H1N1. *Science*. 326(5955):934. PMID: 19965495.

Books/chapters/monographs/book reviews:

7. **Aiello AE**, Simanek AM, Stebbins RC, Dowd JB (**In press**) Psychosocial Influences on Infectious Disease. Chapter in: Kawachi, Steptoe, Kivimaki (Eds.) *Handbook of Psychosocial Epidemiology*. Routledge, Taylor & Francis group [in press]
6. **Aiello AE** and Dowd JB. (2012) Socio-economic status and immunosenescence. Chapter in: J.A. Bosch, A.C. Phillips & J.M. Lord (Eds.). *Immunosenescence: Psychosocial and Behavioral Determinants*. Springer, New York. pp. 433
5. Zeki Al Hazzouri A, Odden M, Mayeda ER, **Aiello AE**, Neuhaus JM, Haan MN (2010) Lifetime socioeconomic position and functional decline in older Mexican Americans: Results from the Sacramento Area Latino Study on Aging. In Health Care Policy Changes for Aging Latinos: in the Mexican-Origin Population- Monograph. Springer Press. 2011
4. Coulborn RM, Rees Clayton E, and **Aiello AE (2010)** Pharmaceutical and personal care products in the environment and potential risks of emerging antibiotic resistance. Chapter in: Halden R., (Ed.). *Contaminants of Emerging Concern in the Environment: Ecological and Human Health Considerations*. ACS Symposium Series; American Chemical Society: Washington, DC, 2010: pp 367-382
3. **Aiello AE (2009)** Invited Book Review. Neoliberalism, globalization and inequalities: Consequences for health and quality of life. Navarro, V. (ed.). *Journal of Epidemiology and Community Health*. 63:e16
2. **Aiello AE**†, Larson EL, Sedlak R (2007) Against disease: The impact of hygiene and cleanliness on health. (SDA) Soap and Detergent Association. pp. 117 (Book 1st author)
1. **Aiello AE**†, Haan, MN, Moore, K.A., Blythe L, Gonzalez JK, Jagust W (2006). Markers of infection predict cognitive decline over four years. *Research and Practice in Alzheimer's Disease and Cognitive Decline*. Vol. 9 (Paper in Monograph)

Presentations (select)

Aiello AE (2017) The impact of pathogen burden on health and longevity. (Presented by Dr. Grace Noppert). Talk In Session: Impact of chronic viral infection in human immunosenescence: a global health problem. International Association of Gerontology and Geriatrics. San Francisco, CA. July 23-27

Aiello AE (2017) From uncertainty to certainty: The banning of antibacterial soaps. Implementation Science Session. Society for Epidemiological Research Annual Meeting. Miami, FL. June 14

Aiello AE (2017) Novel markers of immune function on the social pathways to health. NYU School of Medicine. Epidemiology Seminar Series. Department of Population Health. New York, NY, May 15th

Aiello AE, Eisenberg M, Walsh A, Gao H, Rainey J, Uzicanin A, Monto A (2017) A social network study of isolation and influenza-like illness in the university setting: the eX-FLU study. Invited talk. Mathematical Biology Institute (MBI) Population Models in the 21st Century. Ohio State University, Columbus OH.

Aiello AE (2016) Exploring the interfaces between communicable and non-communicable diseases in public health. Featured Invited Talk. Cambridge Institute for Public Health and the PublicHealth@Cambridge, Li Ka Shing Centre-Cambridge Biomedical Campus, Cambridge University, UK. Nov 3rd. (Declined)

Aiello AE. (2016) Novel Approaches for Bio-social Integration in Epidemiologic Studies. Symposium Chair. Society for Epidemiological Research Annual Meeting. Miami, FL. June 14

Aiello AE (2016) Prevalence of Abandoned Homes in the Neighborhood and Thymic Function. Invited Paper Presentation. Russell Sage Foundation Meeting on Biosocial Pathways of Well-Being Across the Life Course. New York, NY. June 10.

Aiello AE (2016) Non-pharmaceutical interventions with and without pharmaceutical ingredients- how can we safely reduce infectious diseases and improve health. Invited Talk. National Institute of Environmental Health Sciences. Research Triangle Park, NC. April 11

Aiello AE (2016) Educational Mobility, Discrimination, Acculturation and Mental Health in Mexican Americans. Invited Talk. Network on Life Course Health Dynamics and Disparities in 21st Century America. Washington DC. April 6.

Aiello AE (2016) Socioeconomic position over the life course, infectious pathways and chronic health outcomes. Invited Talk. Faculty of Health Sciences Seminar Series "Public Health in a world of uncertainty." American University of Beirut, Lebanon

Aiello AE (2015) Using social networks and smart phones to uncover the social determinants of respiratory infection transmission. Symposia Talk. American Public Health Association Meeting. Chicago, IL. October 30.

Aiello AE (2015) A randomized social network intervention of isolation on respiratory infections in the community setting. Infectious Disease Conference, Clinical Division of Infectious Disease, UNC Medical School, Chapel Hill. April 10

Aiello AE (2015) Sensitive Periods, Plasticity and Resilience. Seminar presented at Duke-UNC Social and Biological Determinants of Health Collaborative. Duke University. April 21

Aiello AE (2015) CMV and Chronic Disease Epidemiology: Neither separate nor unequal. Talk presented at Rush University, Department of Immunology- Microbiology, Rush Medical College. March 27

Aiello AE, Demmer R (2014) Opportunities for human microbiome research in epidemiological studies. Society for Epidemiological Research Annual Meeting. Symposia Chairs. Seattle WA. June 25

Aiello AE (2014) Socioeconomic and Cultural Determinants of Latino Health. Talk presented at the Carolina Population Center Seminar Series, University of North Carolina, Chapel Hill. November 14

Aiello AE (2014) Exploring the role of CMV in Stress-related Alteration of the Aging Immune System. Talk presented at the Gerontological Society of America. Annual Meeting. Washington, DC. November 5-9

Aiello AE (2014) Update on Strategies to Prevent Healthcare-Associated Infections through Hand Hygiene. Presentation on behalf of the Society for Healthcare Epidemiology of America. United States Food and Drug Administration. Nonprescription Drugs Advisory Committee Meeting. Silver Spring, MD. September 3

Aiello AE (2014) Controversies in Infectious Disease Prevention and Control. Invited Speaker: Triclosan- Do we still need to weigh the evidence? 114th General meeting of the American Society of Microbiology. Boston, MA. May 20

Aiello, AE (2014) A Social Network Intervention for Reducing Influenza Transmission and Studying Behaviors. Demography Daze. Sponsored by Duke Population Research Institute and Carolina Population Center. Duke University, Durham, NC. May 8

Aiello AE (2014) Influenza and the built environment- understanding modes of transmission in a sustainable future. What have we learned from campus dorm studies? Invited Speaker: National Socio-Environmental Synthesis Center Workshop. Annapolis, MD. March 6-7

Aiello AE (2013) Infection and chronic disease epidemiology: Neither separate nor unequal. Columbia University-Mailman School of Public Health. Invited Speaker: Robert Wood Johnson Foundation Health and Society Scholars Seminar. New York, NY. May 3

Aiello AE (2012) Social determinants of persistent infections in the United States. University of North Carolina- School of Public Health. Invited Speaker: Epidemiology Departmental Seminar. Chapel Hill NC. April 4

Aiello AE (2012) Invited Speaker and Session Chair. Cytomegalovirus, stress, and immune markers of aging. 3rd International Workshop on CMV & Immunosenescence. Córdoba, Spain, March

Aiello AE (2011) Invited Speaker. *Emerging and Persistent Infectious Diseases (EPID): Focus on Mitigation*. Institute on Science for Global Policy (ISGP), Edinburgh, Scotland, October (Declined)

Aiello AE (2011) Social patterning of infections linked to chronic disease. Kinesiology and Community Health Colloquium Invited Speaker. University of Illinois at Urbana-Champaign. March 4. Urbana, IL

Aiello AE (2010) Social determinants of persistent infections in the United States. Invited Speaker: Department of Society, Human Development and Health Seminar Series, Harvard School of Public Health. November 18. Boston, MA

Aiello AE (2010) Social patterning of infections linked to chronic disease. Featured Seminar Speaker. Epidemiology Department, Harvard School of Public Health. November 3. Boston, MA

Zeki Al Hazzouri A, Haan MN, **Aiello AE (2010)** Life course socioeconomic conditions and late-life depressive symptoms among older Mexican Americans. Oral presentation at the 4th International Conference on Aging in the Americas (ICAA). September 15-17. Austin, TX. (Presented by 4th year Ph.D. student)

Zeki Al Hazzouri A, Haan MN, **Aiello AE (2010)** Life course exposure to education and late life cognitive function among Mexicans and Mexican Americans: the role of migration. Oral presentation in a Spotlight session on “Aging and Longitudinal Methods” at the 43rd Annual Society for Epidemiologic Research (SER) Meeting. June 23-26. Seattle, WA. (Presented by 4th year Ph.D. student)

Aiello, AE (2010) Keynote address speaker: Social determinants of infectious disease. 10th Annual Michigan Communicable Disease Conference. Michigan Department of Community Health. May 20. Bay City, MI

Aiello AE, Coulborn RC, Perez V, Davis B, Uddin M, Waterman S, Shay D, Monto, AS (2009) Reducing transmission of influenza by face masks and hand hygiene. Talk presented at the 14th International Congress on Infectious Diseases. March 9-12. Miami, FL.

Aiello AE (2009) Personal health – bringing hygiene home. Invited speaker Rudolf Schulke Foundation symposium "The need of hygiene in everyday life – challenges and perspectives". Nov 26-27. Hamburg, Germany.

Aiello AE (2009) Social patterning and prevention of infections in the community setting. Dean's distinguished visiting scholar speaker. Columbia University School of Nursing. Nov 12. New York, NY.

Dowd JB, Zajacova A, **Aiello AE (2009)**. Origins of the fire within: Correlates of inflammation in U.S. children aged 3-17. Talk presented at the International Population Conference. September 27 – October 2. Marrakech, Morocco.

Aiello AE. (2009) Preventing influenza transmission with personal protective equipment: Clinical and community Studies. Invited speaker at the “Workshop on personal protective equipment for healthcare workers in the workplace against novel H1N1 influenza.” Institute of Medicine- Board on Health Sciences Policy. August 12-13. Washington, DC.

Roberts ET, Haan MN, Dowd JB, **Aiello AE (2009)** Cytomegalovirus antibody levels, inflammation and mortality among elderly Latinos over 9 years of follow-up. Talk presented at the 42nd Society for Epidemiologic Research Annual Meeting. June 23-26. Anaheim, CA. (Presented by 1st year Ph.D. student)

Lu YC, Galea S, Perez V, Liu G, Coulborn RM, Uddin M, Monto AS, **Aiello AE (2009)** Social support, fear, and willingness to comply with non-pharmaceutical interventions against pandemic influenza among U.S. university students. Talk presented at the World Federation of Public Health Associations 12th World Congress on Public Health. April 27-May 1, 2009. Istanbul, Turkey. (Presented by 1st year Ph.D. student)

Aiello AE (2008) Does mask use and hand hygiene reduce seasonal influenza in the university setting? Invited speaker at Columbia University Medical Center, College of Physicians and Surgeons, Infectious Disease Seminar. November 20. New York, NY.

Aiello AE (2008) Social determinants linking infection and chronic disease. Invited speaker at Columbia University, Mailman School of Public Health, Psychiatric Epidemiology Training Program Seminar. November 20. New York, NY.

Aiello AE (2008) Preventing infections in the community: Efficacy of hand hygiene, antiseptics and face masks. Invited speaker at Washington University in St. Louis School of Medicine, Clinical Epidemiology, Prevention and Population Science Seminar Series. November 18. St. Louis, MO.

Dowd JB, Simanek AM, **Aiello AE(2008)** Persistent infections and mortality in older Americans. Talk presented at the annual meeting of the Gerontological Society of America. November 21-25. National Harbor, MD.

Aiello AE, Murray GF, CoulbornRM, Noone A, Monto AS (2008) Mask use reduces seasonal influenza-like illness in the community setting. Talk presented at the 48th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy and 46th Annual Meeting of the Infectious Disease Society of America. October 25-28. Washington, DC.

Aiello AE (2008) Preventing infectious disease in the community. Invited speaker at Freiburg University- Universitätsklinikum Freiburg Institut für Umweltmedizin und Krankenhaushygiene. October 15. Freiburg, Germany.

Aiello AE (2008) Preventing infections in the community setting: Efficacy of hand hygiene and antiseptic soaps. Invited speaker at University of Georgia, College of Public Health Seminar. September 18. Athens, GA.

Simanek AM, Dowd JB, **Aiello AE (2008)** Persistent pathogens linking socioeconomic position and physical impairment. Talk presented at the 41st Society for Epidemiological Research Annual Meeting, Spotlight Session: "Understanding the Social Causes of Health and Disease". June 24-27. Chicago, IL. (Oral presentation by 1st year Ph.D. student)

Dowd JB, **Aiello AE**, Kaplan G. (2008) Socioeconomic position, race/ethnicity, and burden of infection. Invited session talk presented at the Society for Epidemiological Research Annual Meeting. June 24-27. Chicago, IL.

Aiello AE, Carson R, Levy SB, Marshall B, Larson EL (2008) Use of household cleaning products containing benzalkonium chloride and antibiotic resistance in the community. Invited speaker at 2008 Annual Conference on Antimicrobial Resistance sponsored by the National Foundation for Infectious Diseases. June 24-25. Bethesda, MD.

Dowd JB, Zajacova A, **Aiello AE** (2008) Early origins of health disparities: Socioeconomic status, burden of infection, and children's health in the U.S. Talk presented at the Population Association of America Annual Meeting. April 17-19. New Orleans, LA.

Aiello AE (2008) Antibacterial soaps: Effective or just risky? Invited Speaker at CALTECH, Division of Biology graduate seminar series. April 1, 2008. Pasadena, CA.

Aiello AE (2008) Social patterning in the links between infection and chronic disease. Invited chalk talk. CALTECH, Division of Biology. April 1, 2008. Pasadena, CA.

Aiello AE (2008) Effectiveness of hand hygiene interventions in the community setting. Invited speaker at the 2008 Infection Control Forum sponsored by STERIS®. January 11-12. Cleveland, OH.

Aiello AE (2007) Public Health research: What it is, how it's done and who is doing it. Invited talk presented at the 2007 Society for the Advancement of Chicanos and Native Americans in Science annual meeting, Professional development session presenter. October 11-14. Kansas City, MO.

Aiello AE, Diez-Roux A, Ranjit N, Szklo M, Cushman M, Tsai M. (2007) Socioeconomic gradient in burden of infections implicated in cardiovascular disease. Talk at the 40th Annual Society of Epidemiological Research Meeting. June 19-22. Boston, MA.

Aiello AE and Monto AS (2007) MFLU: Reducing transmission of influenza by face masks. Invited speaker at the Models of Infectious Disease Agent Study (MIDAS) Consultation and Network meeting held at the University of Pennsylvania School of Veterinary Medicine. May 7-10. Philadelphia, PA.

Aiello AE, Haan MN, Osypuk T, Moore K (2007) Neighborhood socioeconomic context and cognition among aging Latinos. Talk at the World Federation of Neurology Meeting. May 4. Boston, MA.

Aiello AE (2006) Infection as a risk factor for chronic disease: A social and epidemiological assessment. Connection between Oral Health and General Health Session. Talk at the 2006 American Public Health Association 134th Annual Meeting. November 4-8. Boston, MA.

Aiello AE, Wilson S, Sanchez Y (2006) Academic and career trajectories: Examples in the public health disciplines of epidemiology and environmental health. Invited talk at the 2006 Society for the Advancement of Chicanos and Native Americans in Science Annual Meeting, Professional development session presenter. October 26-29. Tampa, FL.

Aiello AE (2006) Topical Antiseptic use in the community setting: Weighing the benefits and risks. Invited speaker at the 2006 Infection Control Forum sponsored by STERIS®. October 7-8. Mentor, OH.

Aiello AE (2006) Resistance to topical antiseptics: Does it matter? Invited speaker at the 2006 Annual Conference on Antimicrobial Resistance sponsored by the National Foundation for Infectious Diseases. June 26-28. Bethesda, MD.

Aiello AE, Haan MN, Kumar S, Moore KA, Blythe L. (2005) Novel infectious biomarkers of cognitive impairment. Talk presented at the Alzheimer's Association International Prevention of Dementia Conference. June 18-21. Washington, D.C. Published abstract.

Aiello AE (2004) Household use of antimicrobial soaps and antimicrobial-resistance in the community: Do the risks outweigh the benefits? Invited speaker: University of Michigan, Department of Epidemiology Seminar Series. Ann Arbor, MI.

Aiello AE, Marshall B, Levy S, Della-Latta P, Larson E (2003) The relationship between antibacterial cleaning and hygiene products and antibiotic susceptibility in the community setting. Talk presented at the American Public Health Association Annual Meeting: Behavior, Lifestyle and Social Determinants of Health. San Francisco, CA.

Research Grants

Submitted:

R01 (Harris, Krauter, McQueen) (Role: Co-Investigator) 04/01/18-03/31/23
NIH/Not Assigned Yet

The Add Health Microbiome Study: The Contribution of Genes and Social Processes Across the Life Course

The proposed microbiome data collection will make Add Health one of the few, if not the only, nationally representative studies with longitudinal repeat microbial data on a young adult cohort, making possible innovative research on how life course environmental exposures interact with genetic factors to influence the mouth and gut microbiome for all socioeconomic, race, ethnic, immigrant, and geographic subgroups of young adults in the U.S. population.

R21 (Handa) (Role: Subcontract PI) 09/01/2017-08/01/21
NIH/NICHD

Poverty, Infectious Disease and Decision-making

The purpose of this study is to develop a better understanding of the epidemiological and behavioral consequences of poverty that undermine health. We will collect dried blood spots from the participants in an RCT cash transfer study in Zambia, in order to assess whether infectious diseases that have been shown to impact cognition, influence the ways in which individuals utilize money.

Ongoing:

R01 (Volfovsky) (Role: Subcontract PI) 09/01/17 – 05/31/20
NIH/NSF

Matching Methods for causal inference: big data and networks

This proposal was motivated by the desire to have non-pharmacological interventions that can prevent the spread of disease and to utilize collected network, demographic and clinical pre- and post-intervention data on subjects to enhance causal inference methods in the context of interference.

R01 (Yang) (Role: Co-Investigator) 09/1/2017-08/31/22
NIH/NIA

Life Course Process of Alzheimer's Disease: Sex Difference and Biosocial Mechanisms

The purpose of this proposal is to merge multiple longitudinal datasets to examine and model the life course socioeconomic and psychosocial exposures that contribute to sex difference in Alzheimer's Disease. We will examine existing and test novel biomarkers of infection and inflammation in these pathways.

T32 (Aiello, Hummer) 08/21/17 – 04/30/22
NIH/NICHD \$1,593,891

From Biological to Social Processes: Interdisciplinary Training in Life Course Research

The purpose of this training program is to promote and support interdisciplinary training of PhD and Post-doctoral trainees from both the social sciences and biological/health sciences. The goal of this new and innovative training program is to produce junior scientists who will conduct truly integrative interdisciplinary work that will address some of the country's most pressing health problems. Trainees will have the opportunity to receive interdisciplinary mentorship and training in a wide array of content areas, ranging from social inequalities to biological processes. Trainees will enter from their respective disciplines and will identify a co-preceptor team comprised of a mentor from their home discipline and another representing their gap interest area.

R01 (Aiello, Uddin, Wildman) 08/16/17 – 05/31/21
NIH/NIMHD \$2,769,148

Epigenomic Predictors of PTSD and Traumatic Stress in an African American Cohort

The goal of the proposed work is to uncover how DNA methylation variation in the glucocorticoid receptor regulatory network (GRRN) plays a role in the etiology of post-traumatic stress disorder (PTSD) in African-Americans (AAs). PTSD is a common and debilitating mental disorder that has a profound public health impact and for which the disease burden falls disproportionately on African-Americans.

UL1TR001111 (Buse) (Role: Co-Investigator) 09/26/13 – 04/30/18
NIH \$6,701,779

North Carolina Translational & Clinical Sciences Institute

Researchers, clinicians and health policy experts have long lamented the well-documented lag between basic science discoveries and when those discoveries reach patients to treat them and make their lives better. The proposed UNC-RTI partnership in cooperation with the CTSA Consortium will help to ensure that patients will more quickly and effectively benefit from the results of biomedical research.

DARPA N66001-17-2-4014 (Woods) (Role: Subcontract PI) 01/01/2017-
DOD 06/30/2018
PROMETHEUS Program \$100,000

PREDicting contagion using Systems And Genomic analysis (PRESAGE)

The purpose of this study is to use multiple sources of data collected from a human experimental model of influenza to identify early markers of infectiousness.

DARPA N66001-17-2-4023 (Milton) (Role: Subcontract PI) 01/01/2017-
DOD 12/01/2017
PROMETHEUS Program \$20,000

Contagious Phenotypes of Acute Respiratory Infection: Identification, Characterization, and Biomarkers. The purpose of this study is to identify markers of acute respiratory infection contagiousness in a university population of students living in residence halls.

R01AI129788 (Nagarkatti) (Role: Subcontract PI) 11/15/16 – 10/31/21
Epigenetic Mechanisms of T-cell dysregulation in PTSD \$94,111

To identify mechanisms outside of the genes (epigenetic) that lead to heightened immune response in veterans with PTSD, which will aid in early diagnosis and treatment.

NIH RFA MD-11-003 (Diez Roux) (Role: Project PI) 09/01/12-08/31/17
NIH/NIMHD NCE
Center for Integrative Approaches to Health Disparities, P60 MD 002249 \$604,791

Project 3: Generational sociocultural determinants of Latino cardiometabolic health

This study will assess whether generational changes in socioeconomic position and acculturation influence cardiovascular and metabolic measures of health among middle aged Latinos.

Gojo Industries, Inc. (Aiello) 2015-2018
Gift Award \$45,000

The purpose of this gift is to provide support for research on hand hygiene in the community setting.

Completed:

R01DK087864-01 (Aiello) 05/01/12-04/30/17
NIH/NIDDK \$2,484, 123

Life Course Socioeconomics, Acculturation, & Type-2 Diabetes Risk Among Latinos

The proposed study will assess the impact of life course socioeconomic position and acculturation on type-2 diabetes and examine potential biological mediators, including inflammation, among two generations of US Latinos. The findings from this study will have important public health

implications, including identification of critical risk factors and biological mechanisms mediating the effects of life course sociocultural contexts on type-2 diabetes across generations of US Latinos

R01AG040115-01 (Aiello)

NIH/NIA

04/15/12-03/31/17

\$1,762,594

Infectious Links Between Psychosocial Stress and Aging

This study will increase our understanding of how psychosocial stress accelerates the aging process. We propose to bring together research on two pathways that have been linked to both socioeconomic status and psychosocial stress: the role of latent pathogens in age-related immunosenescence and the role of telomere shortening in cellular aging. Identifying associations and interactions between psychosocial stress, immune function, and telomere length could lead to novel areas of prevention and intervention in chronic diseases of aging

U01CK000185 (Aiello, Monto)

CDC

09/01/11-08/31/13

\$1,999,963

A Randomized Study of Exclusion Criteria in a University Population

The proposed study will assess the impact of varying isolation periods on risk of influenza in residence halls on the campus of University of Michigan. The findings from this study will have important public health implications, including identification of critical periods of illness transmission that may account for outbreaks in the school setting. The results of these studies may be used for setting specific national mitigation strategies where social distancing is a major component.

CK2203 (Aiello)

The Stanley Medical Research Institute

05/01/11-12/31/14

The burden of infection on mental and cognitive health

\$252,000

The goal of this grant is to assess whether pathogen burden is linked to chronic disease outcomes, including dementia, cardiovascular disease, and mental health by testing pathogens in several large cohort studies, including the Sacramento Area Latino Study of Aging, Detroit Neighborhood Health Study, Whitehall Heart Scan Study, Memory and Aging Project, Minority Aging Research Study, Religious Orders Study, Chicago Health and Aging Project.

R01DA022720-05 (Aiello)

NIH/NIDA

09/01/07-08/31/13

\$3,181,615

Ecological stressors, PTSD, and drug use in Detroit

The overall purpose of this project is to study the pathways linking ecologic stressors to long-term health. This project primarily aims to disentangle the contribution of stressors at multiple levels to the etiology of PTSD and drug abuse/dependence and how these stressors shape the relationship between these pathologies. Secondly, we propose to consider the consequences of PTSD in the context of ecologic stressors, particularly the relation between PTSD and immune and inflammatory function, and how these consequences are shaped by exposure to ecologic stressors.

R01DA022720-05S1 (Aiello)

NIH/NIDA

09/01/11-08/31/13

\$155,474

Ecological stressors, PTSD, and drug use in Detroit – PhenX Supplement

The goal of this supplement is to extend the Detroit Neighborhood Health Study for an additional wave of survey data collection in order to use PhenX toolkit measures to collect data on conditions known to be commonly comorbid with PTSD (e.g. illicit drug use, family history of heart attack). Data collected using the Phenx measures will enable testing of novel hypotheses while also providing data with which to evaluate the usefulness of PhenX measures in population studies, particularly those that include genomic data.

5RC1MH088283-02 (Aiello) NIH/NIMH Candidate Epigenetic Biomarkers For PTSD: Insights From Detroit To assess whether methylation profiles differ among individuals with current PTSD, those who have once had PTSD but are now PTSD free, and individuals who have been trauma exposed but never developed the disorder. To assess whether gene expression profiles differ among individuals with current PTSD, those who have once had PTSD but are now PTSD free, and individuals who have been trauma exposed but never developed the disorder.	09/30/09-08/31/11 \$994,788
R01AG012975 (Haan) (Role: Subcontract PI) NIH/NIA Epidemiology of Functional Status in Elderly Hispanics The major goal of this grant is to prospectively follow 2000 community-dwelling Latinos over age 60 living in the Central Valley of California entitled Sacramento Area Latino Study of Aging (SALSA). Data will be obtained on health status, prevalence of functional impairments, risk factors for decline in physical and cognitive function and the prevalence and incidence of dementia in this group.	09/01/09-08/31/13 \$4,837,372
U01CI000441 (Monto) (Role: Co-PI) CDC Reducing transmission of influenza by face masks The goal of this study was to examine student behaviors related to pandemic preparedness and the impact of wearing face masks and using alcohol-based hand sanitizers for reducing the incidence of influenza among University students.	09/15/06-09/29/09 \$2,229,810
CK2203 (Aiello) Stanley Medical Research Institute The impact of pathogen burden on cognitive health, physical health, and mortality The goal of this grant is to assess whether pathogen burden is linked to chronic disease outcomes, including dementia and CVD	10/01/09-09/30/10 \$22,617
R21 (Dowd) (Role: Subcontract PI) NIH/NIA Under the skin: Understanding the role of stress and immune function in health disparities The goal of this grant is to advance current research on the potential role of stress, infections, and immunity as mediators in the pathway between socioeconomic position and health	09/22/08-06/30/10 \$171,705
Nathan Shock Center of Excellence in the Basic Biology of Aging- University of Michigan (Aiello) Social context, post-traumatic stress, and the immunopathology of aging The goal of this pilot grant is to examine the role of neighborhood socioeconomic characteristics and post-traumatic stress in relation to infections and immune response	02/19-09-12/31/09 \$5,000
Institute of Geriatrics, Claude D. Pepper Center, University of Michigan (Aiello) Stress, socioeconomic status, immunological functioning, and health outcomes among older adults in U.S. and Japan The goal of this pilot project is to assess the relationship between, stress, socioeconomic status, immunological functioning, and health outcomes among older adults in U.S. and Japan	09/01/06-07/3/09 \$118,310
NIH RFA MD-11-003 (Diez Roux) (Role: Pilot Grant PI) NIH/NIMHD Center for Integrative Approaches to Health Disparities, P60 MD 002249 Neighborhood cultural isolation and biomarkers of cardiovascular disease among Latinos The goal of this pilot grant is to examine the role of neighborhood levels of acculturation in relation to infections and other biological markers among aging Latinos	09/01/07-08/31/09 \$67,680

Office of the Vice-President for Research, University of Michigan (Aiello) **06/01/06-05/31/09**
Mapping age-related inflammatory risk profiles of functional decline **\$16,000**

The goals of this pilot project are to: (i) identify biomedical factors that enhance age-associated inflammatory processes and (ii) assess whether markers of systemic inflammation are predictive of physical decline among the elderly. The findings from this research will be used as pilot data for a new investigator R01 submission to the National Institute of Aging

RWJ045823 (Kaplan) (Role: Pilot project PI) **04/01/04-08/31/07**
 Robert Wood Johnson Foundation (RWJF) **\$42,768**

Herpes and dementia

The goal of this project is to assess social determinant of herpes infections among elderly Latino's and examine the relationship between these infections and dementia

RCDC Pepper Center (Halter) (Role: Pilot project PI) **01/01/06-12/31/06**
 NIH/NIA **\$13,923**

University of Michigan Institute of Geriatrics training fellowship from the Research Career Development Core of the Claude D. Pepper Center

The objective of this training grant is to create an interdisciplinary research agenda around issues in aging populations. My specific research goals are to characterize socioeconomic inequalities, cultural variations, and infectious disease risk in elderly populations living in the community setting as well as within the clinical environment

01/01/07-12/31/07
\$13,923

Service

University, School, and Academic Committees (University of North Carolina)

2017- Present UNC Campaign Faculty Ambassador
 2017- Present 1918 Pandemic Influenza Symposium Planning Group
 2016- Present Gillings Organizational Development Plan Working Groups Communications, Member
 2014- Present Center for Health Equity Research, Advisory Board Member
 2013- Present Graduate Studies Committee, Department of Epidemiology, UNC-SPH

Search Committees (University of North Carolina)

2016- Present Chair of Epidemiology, Member
 2015-2016 Social Epidemiology Faculty, Chair (Dr. Asia Maselko, recruited)

Search Committees (University of Michigan)

2012-2013 Infectious Disease Faculty, Epidemiology, Chair
 2012 Interdisciplinary Faculty, Epidemiology– Social Networks, Member
 2010-2011 Dean of the School of Public Health, Member
 2010 Interdisciplinary Faculty, Epidemiology– Microbial Ecology, Member
 2009-2010 Social Epidemiology Faculty, Member

Academic Committees (University of Michigan)

2013-2013 School of Public Health Curriculum Task Force, Chair
 2012-2013 School of Public Health Executive Committee, Member
 2012-2013 Masters Curriculum Committee, Co-chair
 2011-2013 Health Equity Speakers Seminar Series Grant, Co-PI
 2011-2012 General Epidemiology Curriculum Committee, Co-chair
 2010-2013 Diversity Committee, University of Michigan SPH, Member

2010-2013	Faculty Ally for Diversity in Graduate Education
2010-2011	U of M Division of Research Development and Administration Review Committee, Member
2008-2010	Curriculum Committee, Member
2008	Fulbright Interview Committee, Member
2007-2012	Robert Wood Johnson Foundation Health and Society Scholars Steering Committee, Member
2005- 2007	Admissions Committee, Member

Teaching

University of North Carolina

2015, 2016, 2017	Introduction to Social Epidemiology, EPID 826
2014, 2016, 2017	Social Epidemiology Seminar, EPID 799A

Guest Lectures

2014	Health Inequities in the US, PUBH/MCH 756
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University of Michigan

2013	Introduction to Social Epidemiology, EPID 514
2012, 2013	Advance Seminar in Public Health Aging, EPID 813 (co-instructor)
2012, 2013	Field Methods in Epidemiology, EPID 655 (co-instructor)
2011, 2012	Strategies and Uses of Epidemiology, EPID 503 (co-instructor)
2008, 2009	Social Determinants of Infectious Diseases, EPID 672
2007	Introduction to Infectious Disease Epidemiology, EPID 605 (co-instructor)
2006, 2007	Epidemiological Links between Infection and Chronic Disease, EPID 880

Guest Lectures

2012	Introduction to Public Health (~350 undergraduate students)
2009	University of Michigan-Medical School Infectious Disease Sequence
2008-2010	Topics in Cancer Prevention, EPID 631
2008-2011	Introduction to Infectious Disease Epidemiology, EPID 605
2005, 2007, 2009	Advanced Topics in Molecular Epidemiology, EPID 682
2008	Applied Health Policy Analysis, HMP 664
2004-2008	Social Epidemiology, EPID 514
2004-2008	Epidemiology of Aging, EPID 677
2004-2009, 2012	Foundations of Population Health, EPID 804
2007	Field Studies, EPID 664
2006, 2007	Neuroepidemiology, EPID 616
2005, 2006	Molecular Epidemiology of Infectious Diseases, EPID 582
2005	Program Evaluation in Public Health, HMP 640

Advising/Mentoring

Post-doctoral or MD

Grace Noppert, PhD, Duke, Post-doctoral Fellow Aging, 2016-present (co-Mentor)
 Chantel Martin, PhD, UNC, Post-doctoral Fellow Cancer Health Disparities Program, 2016- present (co-Mentor)
 Lindsay Fernandez-Rhodes, PhD, UNC, Post-doctoral Research Scientist/Carolina Population Center, 2016-present
 Lydia Feinstein, PhD, UNC, Post-doctoral Research Scientist/Carolina Population Center, 2014-2016
 Amanda Simanek, PhD, UM, Assistant Research Scientist, 2012-2013
 Erin Rees Clayton, PhD, UM Assistant Research Investigator, 2011-2013
 Charitha Gowda, MD, MPH, UM House Officer, Internal Medicine, paper advisor, 2009-2012
 Christie Jeon, PhD, Columbia Univ, Post-doctoral Research Scientist, 2010-2012 (co-Mentor)

Cleopatra Abdou, PhD, UM Robert Wood Johnson Foundation Health & Society Scholar, 2008-2009 (co Mentor)
 Jennifer Dowd, PhD, UM Robert Wood Johnson Foundation Health & Society Scholar, 2007-2008
 Alice Penrose, MD, UM Preventive Medicine Residency Program, paper advisor, 2006-2007
 Rachel Gordon, MD, MPH, Columbia Univ, NIH K Grant Research Co-Mentor, 2007-2012

Doctoral Students

Name, Degree	Dissertation Project or Title	Period
University of North Carolina		
Amy Huber, PhD	Neighborhood-level determinants of HIV and chronic disease comorbidity in Diepsloot, South Africa	2015-2017
Julia Ward, PhD	TBD	2014-
Evette Cordoba, PhD	TBD	2014-
Erline Miller, PhD	TBD	2014-
Rebecca Stebbins, PhD	TBD	2014-
Elizabeth McClure, PhD	TBD	2016-
Paul Zivitch, PhD	TBD	2016-
Rae Ann Martinez, PhD	TBD	2016-
University of Michigan		
Alison Walsh, PhD (co-chair Eisenberg)	Social networks and alcohol behaviors in university students	2012-
Adam Markovitz, MD/PhD	TBD	2012-2014*
<i>Graduated:</i>		
Helen Meier, PhD	Life-course effects of socioeconomic position on infectious diseases	2011-2014
Ryan Malosh, PhD (co-chair Monto)	Prevention and Transmission of Influenza in Households with Children	2010-2015
Brian Davis, PhD (co-chair Foxman)	An Integrated Approach to Influenza Transmission and Secondary Bacterial Infection	2008-2016
Josh Clayton, PhD (co-chair Boulton)	Influenza-associated pediatric mortality: assessment of surveillance, neighborhood risk factors, and vaccination status	2009-2013
Mariana Rosenthal, PhD (co-chair Foxman)	The Healthcare Workers' Hand Microbiome: Community Structure and Dynamics	2009-2013
Elsie Grace, PhD	Psychotropic Medication Use Among Community-Dwelling Dementia Patients: Insights from the Resources for Enhancing Alzheimer's Caregiver Health Trials	2007-2011
Adina Georges Zeki al Hazzouri, PhD (co-chair Haan)	Life Course Socioeconomic Conditions and Mental Health Among Older Mexicans and Mexican Americans	2009-2011
Amanda Simanek, PhD	The Role of Persistent Pathogens, Inflammation and Total Pathogen Burden in Determining Risk for All-Cause and Cardiovascular Disease-related Mortality in the United States	2007-2011
Vanessa Perez, PhD	Stress, Influenza, and Health Behavior: Implications for	2007-2010

* A brief period of advising due to my move to UNC.

Doctoral Student Committee Member (Univ of North Carolina)

Nancy Lopez Olmedo, Nutrition
 Ryan Hickson, Pharmacy
 Jennifer Yourkavitch, Epidemiology
 Sally Bullock, Nutrition, graduated 2017
 Jayne Jeffries, Health Behavior, graduated 2017
 Maria Stoner, Epidemiology, graduated 2017
 Cassandra Johnson, Nutrition, graduated 2017
 Allison Schmidt, Health Behavior, graduated 2017
 Ruth Link-Gelles, Epidemiology, graduated 2016
 Samantha Attard, Nutrition, graduated 2016
 Melecia Wright, Nutrition, graduated 2016
 Liz Cromwell, Epidemiology, graduated 2016
 Fei Dong, Nutrition, graduated 2016

Doctoral Student Committee Member (Univ of Michigan or other)

Levent Sipahi, graduated 2014 (Wayne State University)
 Bryan Mayer, graduated 2012
 Shawnita Sealy Jefferson, graduated 2012
 Melissa Traci, graduated 2012
 Tomi Akinyemiju, graduated 2012
 Greta Krapohl, graduated 2011
 Marta Prescott, graduated 2011
 Sandra Albrecht, graduated 2011
 Emily Goldmann, graduated 2011
 Ian Spiknall, graduated 2010
 Todd Greene, graduated 2009
 Xiaofeng Zhou, graduated 2009
 Vivian Colon, graduated 2007
 Jose Siri, graduated 2006

MPH Advising/Mentoring at University of Michigan (#)

Graduated (16)
 Final paper (19)
 Field Internships (18)
 Research Assistantship (24)

Undergraduates (16)

Selected Media Coverage: National Public Radio (NPR), ABC Nightly News, New York Times, Washington Post, LA Times, USA Today, Telegraph, Forbes, Time, Scientific American, Popular Science, Good House Keeping, and guest appearances on the Dr. Oz show