

# Exhibit H

## **Declaration of Melissa Perry, ScD MHS**

I, Melissa Perry, declare as follows:

1. I am an epidemiologist and chair of environmental and occupational health at George Washington University, where I study health issues affecting workers, including health and safety in the meatpacking industry. I am submitting this declaration to explain the large-scale outbreaks of COVID-19 that have continued to occur nationally in meatpacking plants and surrounding communities since the coronavirus pandemic began.

2. In preparing this declaration, I reviewed the declarations in this case, research about COVID-19 outbreaks in meatpacking plants and their effects on meatpacking communities (including reports published by the Centers for Disease Control and Prevention), articles in the news from around the country, and the medical and public-health literature on COVID-19 and its transmission. This declaration also relies on my training in public health and epidemiology, and my years of experience conducting research inside meatpacking plants and speaking with meatpacking workers, plant managers, and engineers.

### **Professional Background**

3. I am currently Professor and Chair of the Department of Environmental and Occupational Health at the Milken Institute School of Public Health of the George Washington University, in Washington, D.C. I am an occupational and environmental epidemiologist who specializes in health and safety risks in the environment and in the workplace.

4. I previously served as President of the American College of Epidemiology.

5. I previously served as Chair of the Board of Scientific Counselors for the National Center for Environmental Health at the Centers for Disease Control and Prevention (CDC), and have served as a standing member of the National Institute for Occupational Safety and Health

(NIOSH) research grant review panel. I am currently the co-chair of the National Academies Standing Committee on Use of Emerging Science for Environmental Health Decisions. These bodies exist to study and formulate specific recommendations for environmental and occupational health and safety practices.

6. I began studying meatpacking facilities in 2004. I have published seven peer-reviewed journal articles on worker health and safety at meatpacking facilities. As part of that work, I visited three such facilities, reviewed statements from 400-500 workers in those facilities, and spoke with engineers regarding the structure of the plants and how they can be reconfigured to further support worker health and safety. These reconfigurations included ways to space workers apart and to slow the processing line in order to reduce the incidence of worker injuries.

### **Large Meatpacking Outbreaks Have Continued Throughout the Pandemic**

7. Meatpacking plants have experienced large COVID-19 outbreaks since the start of the pandemic. Around 500 plants have had confirmed cases, over 49,000 meatpacking workers have become infected, and at least 250 have died.<sup>1</sup> Outbreaks at many plants have been enormous. For instance, in Nebraska, a Tyson beef plant in Dakota City has reported 786 positive cases.<sup>2</sup> At least four other Nebraska plants have reported multiple hundreds of cases. A

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<sup>1</sup> Leah Douglas, *Mapping COVID-19 outbreaks in the food system*, Food & Environmental Reporting Network (last checked November 27, 2020), <https://thefern.org/2020/04/mapping-covid-19-in-meat-and-food-processing-plants/>; Leah Douglas, *At poultry plants allowed to run faster processing lines, a greater risk of COVID-19*, Food & Agric. Reporting Network (Sept. 10, 2020), [https://thefern.org/ag\\_insider/at-poultry-plants-allowed-to-run-faster-processing-lines-a-greater-risk-of-covid-19/](https://thefern.org/ag_insider/at-poultry-plants-allowed-to-run-faster-processing-lines-a-greater-risk-of-covid-19/); Sky Chadde, *Tracking COVID-19's impact on meatpacking workers and industry*, Midwest Ctr. for Investigative Journalism (last checked November 18, 2020), <https://investigatamidwest.org/2020/04/16/tracking-covid-19s-impact-on-meatpacking-workers-and-industry/>.

<sup>2</sup> Erin Duffy, *786 workers at Tyson's Dakota City plant have coronavirus*, Omaha World-Herald (June 1, 2020), [https://omaha.com/state-and-regional/786-workers-at-tysons-dakota-city-plant-have-coronavirus-company-says-worst-is-over/article\\_97279b04-9376-5990-861e-c423c47f13ab.html](https://omaha.com/state-and-regional/786-workers-at-tysons-dakota-city-plant-have-coronavirus-company-says-worst-is-over/article_97279b04-9376-5990-861e-c423c47f13ab.html).

Tyson pork plant in Waterloo, Iowa has reported 1,031 positive cases.<sup>3</sup> A JBS pork plant in Worthington, Minnesota has reported 791 positive cases.<sup>4</sup> A Smithfield pork plant in Sioux Falls, South Dakota has reported nearly 1,300 positive cases.<sup>5</sup> A Tyson beef plant in Amarillo, Texas has reported at least 1,500 positive cases.<sup>6</sup> These are a few examples, and there are many more. Meatpacking workers have been some of the hardest hit of any industry in the United States.

8. The first case spikes in meatpacking plants occurred in April and early May, and a number of plants were forced to shut down to contain the spread. In that initial surge, testing was performed by local health departments, national guard, and other public agencies, who reported the number of infections and number of deaths to the public.

9. Since then, however, most plants stopped reporting cases, hospitalizations, and deaths to the public. Some plants hired private companies to handle their testing and have declined to report the data publicly.<sup>7</sup> Other plants stopped testing workers within their facilities altogether. In both cases, there could be new spikes occurring, but the workers and the public do not know. And if the plant is not doing coronavirus tests, even the company does not know the level of infections within the plant or whether it is increasing, decreasing, or holding constant.

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<sup>3</sup> *Coronavirus at Iowa Tyson plant infected 1,031 workers, county says—far more than state or company acknowledges*, Assoc. Press (May 9, 2020), <https://www.chicagotribune.com/coronavirus/ct-nw-tyson-plant-coronavirus-outbreak-waterloo-iowa-20200509-joxn4luyivhvdvfbqtzbx4lwkxy-story.html>.

<sup>4</sup> Mike Hughlett, *More than 200 at Quality Pork, Hormel in Austen test positive for COVID-19*, Star Trib. (June 5, 2020), <https://www.startribune.com/more-than-200-at-hormel-quality-pork-processors-test-positive-for-covid-19/571058272/>.

<sup>5</sup> Chacour Koop, *After COVID-19 outbreak kills 4, Smithfield meat plant in South Dakota fined \$13,494*, Kansas City Star (Sept. 10, 2020), <https://www.kansascity.com/news/coronavirus/article245633785.html>.

<sup>6</sup> Vanessa Garcia, *City leaders release CDC recommendations for Tyson as more than 1,500 employees test positive for COVID-19*, News Channel 10 (May 18, 2020), <https://www.newschannel10.com/2020/05/18/city-leaders-release-cdc-recommendations-tyson-more-than-employees-test-positive-covid-19/>.

<sup>7</sup> Sky Chadde, *We've been tracking meatpacking plant outbreaks. Not all are accounted for*, Midwest Ctr. for Investigative Reporting (Aug. 19, 2020), <https://investigatamidwest.org/2020/08/19/graphic-weve-been-tracking-meatpacking-plant-outbreaks-not-all-are-accounted-for/>; Leah Douglas, *Few states release data about COVID-19 in the food system*, Food & Env. Reporting Network (Aug. 17, 2020), [https://thefern.org/ag\\_insider/few-states-release-data-about-covid-19-in-the-food-system/](https://thefern.org/ag_insider/few-states-release-data-about-covid-19-in-the-food-system/).

10. It is therefore impossible for the public to know the full extent of meatpacking outbreaks since early May. Federal and state agencies have not required meatpacking plants to release their COVID-19 case numbers to the public. OSHA has not issued any mandatory COVID-19 rules, including related to public reporting. Some states have even discouraged employers and local public health authorities from disclosing outbreaks at meatpacking plants.<sup>8</sup>

11. Despite these incomplete data, the limited information being released to the public shows that large outbreaks at meatpacking plants have continued. Since May, there have been dozens of publicly-reported case clusters at plants nationwide, which have continued through the summer and fall. These outbreaks are likely a serious undercount because most plants are not reporting. From late May through October, serious outbreaks have been reported in states that

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<sup>8</sup> Peter Whoriskey, *Infection rates were climbing at Nebraska meatpacking plants. Then health officials stopped reporting the numbers*, Wash. Post (May 12, 2020), <https://www.washingtonpost.com/business/2020/05/12/nebraska-coronavirus-case-numbers-meatpacking/>.

include Kansas,<sup>9</sup> North Carolina,<sup>10</sup> Utah,<sup>11</sup> California,<sup>12</sup> Mississippi,<sup>13</sup> Minnesota,<sup>14</sup> Ohio,<sup>15</sup> and Colorado.<sup>16</sup>

12. These more recent outbreaks are notable because they post-date the period in early May when many plants shut down, OSHA issued voluntary guidance, and plants implemented their initial COVID-19 policies. Companies have varied in their infection control policies, but virtually all that I am aware of are providing some amount of masks and temperature checks. The persistence of large outbreaks makes clear that these basic measures have not prevented a continuing proliferation of cases and deaths inside meatpacking plants and surrounding communities.<sup>17</sup> Below I discuss the necessary protections in greater detail.

13. Many of the recent outbreaks are quite large. For instance, a Foster Farms plant in Livingston, California experienced an outbreak that lasted from July through September. As of

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<sup>9</sup> Katie Bernard, *New Kansas coronavirus data shows meatpacking plants still struggling with outbreaks*, Kansas City Star (Sept. 9, 2020).

<sup>10</sup> *As COVID-19 Spread in NC Meatpacking Plants, Workplace Complaints Piled Up*, The News & Observer (July 28, 2020), <https://www.newsobserver.com/news/coronavirus/article244545857.html>.

<sup>11</sup> Nate Carlisle, *Outbreak at Utah meatpacking plant spread even more widely than previously known*, Salt Lake Trib. (July 3, 2020), <https://www.sltrib.com/news/2020/07/03/outbreak-utah-meatpacking/>.

<sup>12</sup> Sara Sandrik, *300 coronavirus cases and 7 deaths linked to Foster Farms facility in Livingston*, ABC News (Aug. 18, 2020), <https://abc30.com/merced-county-coronavirus-foster-farms-livingston/6376904/>; *Foster Farms reports 75 COVID-19 cases at Stanislaus County facility*, KCRA3 (Sept. 23, 2020), <https://www.kcra.com/article/foster-farms-reports-75-covid-19-cases-stanislaus-county-facility/34133521#>.

<sup>13</sup> *Poultry industry in Mississippi hit with more COVID-19 cases as increased processing speeds spark concerns over worker safety*, The Poultry Site (Aug. 19, 2020), <https://thepoultrysite.com/news/2020/08/poultry-industry-in-mississippi-hit-with-more-covid-19-cases-as-increased-processing-speeds-spark-concerns-over-worker-safety/>; James Finn, *As union leaders call for slower line speeds, COVID-19 spreads in Mississippi poultry plants*, Clarion Ledger (Aug. 24, 2020), <https://www.clarionledger.com/story/news/2020/08/24/mississippi-poultry-plants-covid-outbreaks-line-speeds/5609511002/>.

<sup>14</sup> *July 15 Update on COVID-19*, Minn. Public Radio (July 15, 2020) (“Meatpacking hot spots remain”), <https://www.mprnews.org/story/2020/07/15/latest-on-covid19-in-mn>.

<sup>15</sup> Alexander Thompson, *An inside look at outbreaks in NE Ohio meatpacking plants*, Canton Rep. (Aug. 9, 2020), <https://www.cantonrep.com/news/20200809/tracking-covid-inside-look-at-outbreaks-in-ne-ohio-meatpacking-plants/1>.

<sup>16</sup> State of Colorado, Dep’t of Health & Env., *Outbreak Data* (last checked Nov. 18, 2020) (spreadsheet’s “resolved” tab shows two meatpacking outbreaks that lasted until October and two that lasted until July), <https://covid19.colorado.gov/data/outbreak-data>.

<sup>17</sup> Rachel Axon, Kyle Bagenstose, Sky Chadde, *Coronavirus outbreaks climb at U.S. meatpacking plants despite protections, Trump order*, USA Today (June 6, 2020) (reporting that “Coronavirus outbreaks at U.S. meatpacking plants continue to soar”), <https://www.usatoday.com/story/news/investigations/2020/06/06/meatpacking-plants-cant-shake-covid-19-cases-despite-trump-order/3137400001/>.

mid-September, at least 396 employees had become infected and 9 had died.<sup>18</sup> This outbreak occurred despite the fact that, according to the company, they had been providing free masks, workstation dividers, and temperature checks since March.<sup>19</sup> The plant had not, however, implemented physical distancing or onsite testing.<sup>20</sup>

14. Another example is Kansas, where six meatpacking plants together had thousands of active COVID-19 cases as of mid September, according to the state health department.<sup>21</sup> As of September 9, 2020, these plants accounted for 2,159 active cases, 76 hospitalizations, and 12 deaths, all concentrated in a few cities with meatpacking plants.<sup>22</sup>

### **Elevated COVID-19 Rates in Meatpacking Communities**

15. When a large number of co-workers become infected with COVID-19, the outbreak typically spreads to the surrounding community. As described in the paragraphs that follow, there has been an abundance of evidence of this community spread from meatpacking plants since the beginning of the pandemic.

16. Most recently, a study published in the Proceedings of the National Academy of Sciences reported there is a strong positive relationship between livestock-processing plants and local community transmission of COVID-19. The results suggest that these plants may be acting as transmission vectors and accelerating the spread of the virus in surrounding populations.<sup>23</sup>

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<sup>18</sup> Abbie Lauten-Scrivner, *Foster Farms COVID-19 Deaths Among Worst Work-Related Outbreaks in California, Official Says*, Merced Sun-Star (Sept. 16, 2020).

<sup>19</sup> Manuela Tobias, *Foster Farms shut down California facility over COVID-19*, Fresno Bee (Sept. 2, 2020).

<sup>20</sup> Tom Philpott, *A California chicken plant just had the deadliest meatpacking outbreak yet*, Mother Jones (Sept. 30, 2020), <https://www.motherjones.com/food/2020/09/foster-farms-covid-livingston-death-outbreak-osha-safety-masks-infection-poultry-workers/>.

<sup>21</sup> Andy Tsubasa Field and Roxana Hegeman, *Kansas Health Dept.: Meatpacking Plants Have Highest Number of Active COVID Cases*, Ins. Journal (Sept. 11, 2020), <https://www.insurancejournal.com/news/midwest/2020/09/11/582197.htm>.

<sup>22</sup> *Id.*

<sup>23</sup> Charles A. Taylor, Christopher Boulos, Douglas Almond, *Livestock plants and COVID-19 transmission*, Proc. of Am. Acad. of Science (Nov. 19, 2020), <https://www.pnas.org/content/pnas/early/2020/11/18/2010115117.full.pdf>.

Analyzing nationwide data as of July 2020, the study found that proximity to a meatpacking plant was strongly associated with higher infection and death rates. It estimated that, as of July, meatpacking plants were associated with 236,000 to 310,000 excess COVID-19 cases and 4,300 to 5,200 excess deaths beyond what other risk factors would have predicted. The majority of these excess cases and deaths were attributable to community spread.<sup>24</sup>

17. A number of other population studies have also demonstrated that, across the country, outbreaks at meatpacking plants have caused widespread infections in the cities and counties where the plants are located. For instance, one study of rural counties nationwide found that, in counties where a meatpacking plant has experienced a COVID-19 outbreak, the county's infection rate per capita is on average five times higher than counties without a meatpacking outbreak.<sup>25</sup> The infection rate in rural counties with meatpacking clusters was 1,100 per 100,000 people, while the rate in rural counties without a meatpacking cluster was only 209 per 100,000 people.

18. The same study showed that, of the 14 rural counties with the highest infection rates, 10 contained meatpacking clusters, including 5 of the top 6. These rates exceeded those of even the cities that have been hardest hit by COVID-19, like New York, Detroit, and New Orleans. Among all counties in the United States, 6 of the top 10 infection rates appeared in counties with meatpacking outbreaks.<sup>26</sup>

19. Other analyses have demonstrated similar results. An investigation by the Washington Post found that among the 25 rural counties with the highest per capita case rates, 20

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<sup>24</sup> *Id.*

<sup>25</sup> Leah Douglas and Tim Marema, *When COVID-19 hits a rural meatpacking plant, county infection rates soar to five times the average*, Food & Env. Reporting Network (May 28, 2020), <https://thefern.org/2020/05/when-covid-19-hits-a-rural-meatpacking-plant-county-infection-rates-soar-to-five-times-the-average/>.

<sup>26</sup> *Id.*



had a meatpacking plant or prison with a coronavirus outbreak that spread to the surrounding community.<sup>27</sup> This article documents how meatpacking clusters have overwhelmed local hospitals in rural communities. Reporting specifically on Nebraska, the article reports that the largest coronavirus outbreaks had not been in the state's capital and its largest city, but rather in the meatpacking counties.<sup>28</sup> Multiple other analyses, which have looked at all counties with meatpacking plants, confirm the same pattern.<sup>29</sup> As these reports explain, coronavirus outbreaks at meatpacking plants are now spreading more widely in surrounding communities.<sup>30</sup>

20. The same result appears in a recent study by colleagues of mine at George Washington University. Analyzing labor market and COVID-19 case data for all counties in the United States, they found that counties with higher proportions of workers in meatpacking have experienced significantly higher rates of COVID-19 infection. This paper was recently presented at the American College of Epidemiology annual meeting on September 20-21, 2020, and will be published soon.

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<sup>27</sup> Reis Thebault and Abigail Hauslohner, *A deadly 'checkerboard': Covid-19's new surge across rural America*, Wash. Post (May 24, 2020), <https://www.washingtonpost.com/nation/2020/05/24/coronavirus-rural-america-outbreaks/?arc404=true>.

<sup>28</sup> *Id.*

<sup>29</sup> See, e.g., Mike Dorning, *Infections near U.S. meat plants rise at twice the national rate*, Bloomberg (May 11, 2020), <https://www.bloomberg.com/news/articles/2020-05-11/u-s-meat-plant-areas-see-virus-spreading-at-twice-national-rate?sref=UPVmyKW1>; Sarah Graddy, *Investigation: Counties with meatpacking plants report twice the national average rate of COVID-19 infections*, Env. Working Grp. (May 14, 2020), <https://www.ewg.org/news-and-analysis/2020/05/ewg-map-counties-meatpacking-plants-report-twice-national-average-rate>.

<sup>30</sup> Dorning, *supra* (citing Professor Nicholas Christakis at Yale University).

21. Studies from individual states demonstrate the same pattern, with meatpacking counties experiencing far higher infection rates than others in the wake of plant outbreaks, including in Georgia,<sup>31</sup> Iowa,<sup>32</sup> and North Carolina.<sup>33</sup>

22. The same pattern has occurred in communities surrounding meatpacking operations worldwide, as outbreaks at meatpacking plants have led to widespread community transmission and the imposition of lockdowns and other community-wide infection control measures.<sup>34</sup>

23. Similar studies have documented an increase in community spread that results from outbreaks in a variety of crowded settings, including social gatherings, prisons, nursing homes, schools, and other events.<sup>35</sup>

24. Infection rates in Nebraska show the same associations between meatpacking outbreaks and community spread. The Food and Environmental Reporting Network map of Nebraska counties shows that counties that contain or are close to meatpacking clusters had much higher infection rates than counties further from meatpacking plants as of late May.<sup>36</sup>

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<sup>31</sup> Sandy Smith-Nonini, *As COVID-19 hit Georgia meatpacking counties, officials and industry shifted blame*, Facing South (Sept. 8, 2020), <https://www.facingsouth.org/2020/09/covid-19-hit-georgia-meatpacking-counties-officials-and-industry-shifted-blame>.

<sup>32</sup> Andy Kopsa, *Schools near meatpacking plants raise COVID-19 concerns*, The Gazette (Aug. 28, 2020) (“Iowa counties with the highest rates of COVID-19 are home to large meatpacking plants.”), <https://www.thegazette.com/subject/news/health/schools-near-meatpacking-plants-raise-covid-19-concerns-20200828>.

<sup>33</sup> Brystana Kaufman, *Duke researchers: We must protect meat packing workers to combat community spread of COVID-19*, NC Policy Watch (Aug. 31, 2020), <https://www.ncpolicywatch.com/2020/08/31/duke-researchers-we-must-protect-meat-packing-workers-to-combat-community-spread-of-covid-19/>

<sup>34</sup> See, e.g., John Middleton, Ralf Reintjes, Henrique Lopes, *Meat plants—a new front line in the COVID-19 pandemic*, British Med. J. (July 9, 2020) (describing outbreaks in Germany, Portugal, England, Wales, and other countries), <https://www.bmj.com/content/370/bmj.m2716>.

<sup>35</sup> See, for example, Ali et al., Ctrs. for Disease Ctrl. & Prevention, *COVID-19 outbreak in an Amish community—Ohio, May 2020*, Morb. & Mort. Weekly Rep., Vol. 69, No. 45 (Nov. 13, 2020); Ghinai I, Woods S, Ritger KA, et al. Community transmission of SARS-CoV-2 at two family gatherings—Chicago, Illinois, February– March 2020. MMWR Morb Mortal Wkly Rep 2020;69:446–50; Firestone et al., Ctrs. for Disease Ctrl. & Prevention, *COVID-19 outbreak associated with a 10-day motorcycle rally in a neighboring state—Minnesota, August–September 2020*, Morb. & Mort. Weekly Rep., Vol. 69 (Nov. 20, 2020).

<sup>36</sup> See supra note 25.

Every Nebraska county with a meatpacking cluster had an especially high infection rate. Most counties far from a meatpacking cluster had low infection rates.

25. The geographic case data show the same pattern for Adams County, Nebraska, where the Noah's Ark plant is located. The maps identifying cases of coronavirus infection identify the Noah's Ark plant as a COVID-19 hotspot, with 26 reported cases as of May.<sup>37</sup> At that time, Adams County had a much higher infection rate than surrounding counties without a meatpacking cluster: 841 per 100,000 people, compared with 169, 201, 354, and 24 in neighboring counties.

26. These studies, taken together, provide strong evidence that when a COVID-19 cluster emerges in a meatpacking plant, there is a very high risk of it spreading to the surrounding community. When there is a major outbreak in a meatpacking plant, there is high risk that it exacerbates community spread, often dramatically.

### **Necessary Protections Against COVID-19**

27. As the numerous and ongoing outbreaks make clear, meatpacking plants are uniquely vulnerable to the spread of infectious diseases like COVID-19 absent proper protections.

28. The virus that causes COVID-19 is primarily transmitted through the air when people exhale respiratory droplets and aerosolized (i.e. very small) particles through sneezing, coughing, talking, or breathing. This transmission is particularly likely to occur in meatpacking plants, where the work often requires physical exertion and therefore heavy breathing, which can cause people to exhale more virus. If workers are standing very close together on the processing

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<sup>37</sup> The study refers to the plant as Western Reserve. I have reviewed documents indicating that Western Reserve is a trade name of Noah's Ark Processors.

line for many hours at a time, or if they are crowded in common areas like locker rooms and cafeterias, transmission becomes very likely.

29. In my experience, meatpacking workers typically are required to work very close together on processing lines, usually less than a few feet from each other. Common areas are often very crowded as well, as large numbers of employees are given breaks at the same time. These patterns were consistent in multiple plants I have visited and in accounts I have reviewed from hundreds of meatpacking workers.

30. Face masks are an important protection against COVID-19 transmission in meatpacking plants. To be effective, cotton masks must be of sturdy material and have at least two layers of cotton fabric, must be washed daily, and replaced if they get wet. Cotton masks must fit over the nose and mouth, and they must be clean and durable enough that all workers can wear them throughout their shifts. According to companies' public statements, virtually all plants in the country are providing masks of some sort. Disposable non-surgical face masks are designed for one time use and must be replaced when they become soiled or wet. I have reviewed testimony from workers indicating the plant is distributing non-surgical disposable masks only and they are not being replaced regularly, which increases the risk of coronavirus being spread to workers who are working in close proximity to each other.

31. Masks alone, however, are not nearly sufficient to prevent the rapid spread of COVID-19 in meatpacking plants, as demonstrated by the multiple plants that have had large outbreaks in recent months despite the use of masks. This is especially true of cloth and paper masks, which provide less protection than respirators.<sup>38</sup> Cloth and paper masks typically cannot

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<sup>38</sup> The two most common types of respirators are N-95s and elastomeric masks. These are reserved for medical personnel only. See Food & Drug Admin., *N95 respirators, surgical masks, and face masks*, <https://www.fda.gov/medical-devices/personal-protective-equipment-infection-control/n95-respirators-surgical-masks-and-face-masks#s1>.

block all aerosols or droplets, especially over a period of hours. As a result, I am not aware of any public health rule or occupational health guidance that recommends using only masks to prevent transmission, especially in a crowded indoor work setting.

32. In combination with mask wearing, by far the most effective mitigation measure that can be taken to reduce this risk is to spread out workers on the processing lines so that they are at least six feet apart from other workers. Physical distancing is universally recognized as one of the most important measures to protect against coronavirus transmission, and workplaces and industries of all types have made changes to implement this protection. When workers are closer than six feet for extended periods of time, it is very likely that their droplets and aerosols will reach each other's faces. This danger is especially acute when masks are not universally worn, either because they become wet or because workers are eating.

33. Another critical protection is to ensure that sick workers stay home, to ensure that they do not infect their co-workers. This requires providing sick leave to people with COVID-19 symptoms or a positive test, in order to avoid any incentives to keep working while sick. To be effective, a sick leave policy must be clearly communicated to all employees, and an employer must take proactive steps to identify workers with symptoms of any kind.

34. As the pandemic has progressed, it has become clear that widespread testing is necessary in high-risk settings to identify case clusters before they grow exponentially. Testing programs are being implemented in all manner of institutions and workplaces, including meatpacking plants, schools and universities, sports leagues, prisons, and others.

35. To identify spikes, employers must test any worker with symptoms, any worker with a known exposure to someone with symptoms or a positive test, and they should test a periodic sample of asymptomatic workers to identify emerging clusters. Without testing, an

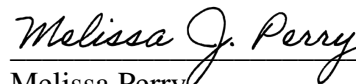
employer has no way of tracking the status of infections in the workplace, which is essential for preventing outbreaks.

36. I have read testimony that Noah's Ark is performing temperature checks of at least some employees. While important, temperature checks are a very small part of preventing the spread of COVID-19 among workers. Studies have documented that a large proportion (ranging between 50-80%) of people infected with coronavirus do not have fevers, and sometimes do not have any symptoms at all, yet remain infectious with viral loads of the coronavirus that are as high as the viral loads of individuals with symptoms. Thus, temperature checks alone will not prevent most workers infected with the coronavirus from entering the plant.

37. I have read testimony that Noah's Ark is not distancing its workers on the processing lines or in the common areas, that it is not performing any onsite testing, that it is often not replacing soiled masks, and that it is sometimes keeping people at work despite symptoms of COVID-19. Any one of these workplace practices alone would represent a serious infectious disease hazard to workers and the surrounding community. Once the virus is present in such a facility, it is my opinion that spread among workers at such a workplace would be inevitable.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge and belief.

Date: December 3, 2020

  
Melissa Perry

## CURRICULUM VITAE

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### EDUCATION:

<u>Date</u>	<u>Discipline</u>	<u>Degree</u>	<u>Institution</u>
1988	Psychology	BA	University of Vermont
1990	Public Health	MHS	The Johns Hopkins University School of Hygiene and Public Health
1993	Public Health	ScD	The Johns Hopkins University School of Hygiene and Public Health

### POSTDOCTORAL TRAINING:

#### Research Fellowships:

<u>Dates</u>	<u>Field of Research</u>	<u>Place</u>
1997-99	Cancer Prevention	Harvard School of Public Health
2003	Molecular Biology	Woods Hole Marine Biological Laboratory

### ACADEMIC APPOINTMENTS:

<u>Dates</u>	<u>Title</u>	<u>Department</u>	<u>Institution</u>
2017-18	Interim Associate Dean for Research	Office of the Dean	Milken Institute School of Public Health
2011-present	Professor	Department of Environmental and Occupational Health	Milken Institute School of Public Health
	Professor	Epidemiology and Biostatistics	Milken Institute School of Public Health

	Professor	Biochemistry and Molecular Medicine	School of Medicine and Health Sciences The George Washington University
2011-present	Chair	Department of Environmental and Occupational Health	Milken Institute School of Public Health The George Washington University
2011-2012	Adjunct Associate Professor of Occupational Epidemiology	Environmental Health	Harvard School of Public Health
2007-10	Associate Professor of Occupational Epidemiology	Environmental Health	Harvard School of Public Health
2002-07	Assistant Professor of Occupational Epidemiology	Environmental Health	Harvard School of Public Health
1999-2002	Instructor	Environmental Health	Harvard School of Public Health
1995-99	Assistant Professor	Health Policy Institute Epidemiology Division	Medical College of Wisconsin
1997-99	Visiting Scientist	Environmental Health	Harvard School of Public Health
1992-95	Research Assistant Professor	Psychology	University of Vermont

#### HONORS AND DISTINCTIONS:

2020	Chair, Research Committee, The Health Effects Institute
2019-20	Scientific Program Co-Chair and Host, International Society of Environmental Epidemiology Annual Meeting
2020-21	Fellow, The Fulbright International Education Program for Global Scholars
2019-present	Fellow, The <i>Hedwig van Ameringen</i> Executive Leadership in Academic Medicine (ELAM) Fellowship
2018-present 2017	Board Member, Frontiers in Reproduction, Woods Hole Marine Biological Laboratory Frontiers in Reproduction Distinguished Alumni Award, Woods Hole Marine Biological Laboratory
2016-present	Co-Chair, National Academies of Sciences, Engineering, and Medicine Committee on Emerging Science
2015-present	Fellow, The <i>Collegium Ramazzini</i>
2015, 2020 2015-19	Mentor, SPHHS EOH Culminating Experience Award, George Washington University Chair, Board of Scientific Counselors, Center for Environmental Health/Agency for Toxic Substances and Disease Registry, Centers for Disease Control
2015-present	Founding Chair, DC Area Colleges and Universities Environmental and Occupational Health Consortium
2014-15	President, American College of Epidemiology
2012	Mentor, SPHHS EOH Culminating Experience Award, George Washington University



2011 Alumni Inductee, *Delta Omega* Honorary Society, Alpha Chapter, Johns Hopkins University  
 2009-present Fellow, American College of Epidemiology  
 2007 Mentor, Laurance S. Rockefeller Thesis Prize, Harvard College  
 2003 Frontiers in Reproduction Fellowship, Woods Hole Marine Biological Laboratory  
 1997 National Cancer Institute Postdoctoral Fellowship  
 1990 National Institute of Mental Health Predoctoral Fellowship  
 1988 *Alpha Kappa Delta* International Sociology Honor Society  
 1988 Vermont Conference on Primary Prevention Award for Prevention Research  
 1988 *Phi Beta Kappa*

RESEARCH SUPPORT

2021-23	NIAD (R21)	PI	Detection and Persistence of COVID-19 in Semen (Submitted)
2020-22	NIEHS (RO1)	PI	Environmental Endocrine Disruptors and Spermatogenic Impacts (Submitted)
2019-21	Franciscan Health Foundation	PI	The Heartland Study: Herbicide Exposures and Maternal and Child Health
2017-20	NIEHS (R21)	Co-Invest	Impact of Endocrine Disruptors on the Human Sperm Methylome: a Risk for Autism?

Past:

<u>Year(s)</u>	<u>Funding Source</u>	<u>Role</u>	<u>Grant Title</u>
2010-15	NIEHS (RO1)	PI	Endocrine Disruptors and Human Sperm Chromosomal Abnormalities
2013-14	CPWR	PI	Evaluating Fall Safety Compliance among Skilled Trades in Construction
2013-14	NASA	Co-Invest	GEO Health and Environmental Community of Practice Annual Meeting
2012-14	GWU (Pilot)	PI	Collaborative Proposal to Investigate Obesity, Diabetes and Fertility
2009-10	NIOSH (U54)	Co-Invest	Safety Incentives in Construction
2008-10	HSPH Environmental Center Pilot Grant	PI	Endocrine disruptors and sperm aneuploidy in Faroese men
2006-09	NIOSH (U50)	PI	Assessing Hearing Hazards in Farm Youth
2005-12	NIOSH (RO1)	PI	Risk Factors for Lacerations in Meatpacking
2005-06	HSPH Environmental	PI	Case Control Study to Evaluate Non-

	Center Pilot Grant (NIEHS)		Persistent Pesticide (NPP) Effects on Sperm Concentration
2004-10	NIOSH (U54)	PI	Preventing Falls from Construction Ladders
2004	NIEHS (RO1)	Co-Invest	Organophosphate Exposures and Reproduction
2003-04	Liberty Mutual HSPH Dept. of Environmental Health Pilot Grant	PI	Feasibility Study for Investigating Upper Extremity Laceration Injuries in Meatpacking
2002-03	Northeast Agricultural Medicine Center (NIOSH) Pilot Grant	PI	Assessing Ototraumatic Exposures in Farm Youth
2001-10	NIOSH (T42) HSPH ERC Training Grant	Co-Invest (Program Co-Director)	Occupational Injury Prevention Training Program
2001-06	NIEHS (KO1)	PI	Molecular Epidemiology of Atrazine's Hormonal Effects
2001-03	Liberty Mutual HSPH Dept. of Environmental Health Pilot Grant	PI	Occupational Injuries in an Urban Emergency Dept. Population in the People's Republic of China
2001-03	Harvard University Office of the Provost	PI	Epidemiology of Human Rights Violations in Post-War Kosovo
2000-01	NIOSH HSPH Occupational Health Program, ERC Pilot Grant	PI	Mutagenic Effects of Atrazine Exposure <i>In vitro</i>
1995-2002	NCI (RO1)	PI	Interventions to Reduce Cancer Risks among Farm Families

## PUBLICATIONS

Peer-Reviewed Reports of Original Investigations (\* indicates publications on which I served as the supervising mentor of the first author and/or as senior author)

- 1) **Perry MJ**, Solomon LJ, Winett RA, Kelly JA, Roffman RA, Desiderato LL, Kalichman SC, Sikkema KJ, Norman AD, Short B, Stevenson LY. [High risk sexual behavior and alcohol consumption among bar-going gay men](#). AIDS 1994; 8(9):1321-4.
- 2) Roffman RA, Kalichman SC, Kelly JA, Winett RA, Solomon LJ, Sikkema KJ, Norman AD, Desiderato LL, **Perry MJ**, Lemke AL, Steiner S, Stevenson LY. [HIV antibody testing of gay men in smaller U.S. cities](#). AIDS Care 1995; 7(4):405-13.

- 3) Kelly JA, Sikkema KJ, Winett RA, Solomon LJ, Roffman RA, Heckman TG, Stevenson LY, **Perry MJ**, Norman AD, Desiderato LL. [Factors predicting continued high risk behavior among gay men in small cities: Psychological, behavioral and demographic characteristics related to unsafe sex.](#) J Consult Clin Psychol 1995; 63(1):101-7.
- 4) **Perry MJ**, Mandell W. [Psychosocial factors associated with the initiation of cocaine use among marijuana users.](#) Psychol Addict Behav 1995; 9(2):91-100.
- 5) Heckman TG, Kelly JA, Sikkema K, Cargill V, Norman A, Fuqua W, Wagstaff D, Solomon L, Roffman R, Crumble D, **Perry M**, Winett R, Anderson E, Mercer MB, Hoffmann R. [HIV risk characteristics of young adult, adult, and older adult women who live in inner-city housing developments: Implications for prevention.](#) J Women Health 1995; 4(4):397-406.
- 6) Winett RA, Anderson ES, Desiderato LL, Solomon LJ, **Perry MJ**, Kelly JA, Sikkema KJ, Roffman RA, Norman AD, Lombard DN, Lombard TN. [Enhancing social diffusion theory as a basis for prevention intervention: A conceptual and strategic framework.](#) Appl Preven Psychol 1995; 4(4):233-45
- 7) Wagstaff DA, Kelly JA, **Perry MJ**, Sikkema KJ, Solomon LJ, Heckman TG, Anderson ES, Roffman RA, Cargill V, Norman AD, Winett RA, Mercer MB, Crumble D, Fuqua RW. [Multiple partners, risky partners and HIV risk among low-income urban women.](#) Fam Plan Perspec 1995; 27(6):241-5.
- 8) Heckman TG, Kelly JA, Sikkema KJ, Roffman RA, Solomon LJ, Winett R, Stevenson LY, **Perry MJ**, Norman AD, Desiderato LL. [Differences in HIV risk characteristics between bisexual and exclusively gay men.](#) AIDS Ed Preven 1995; 7(6):504-12.
- 9) Heckman TG, Kelly JA, Roffman RA, Sikkema KJ, **Perry MJ**, Solomon LJ, Winett RA, Norman AD, Hoffmann RG, Stevenson LY. [Psychosocial differences between HIV tested and non-tested gay men who reside in smaller U.S. cities.](#) Int J STD AIDS 1995; 6(6):436-40.
- 10) Sikkema KJ, Heckman TG, Kelly JA, Anderson ES, Winett RA, Solomon LJ, Wagstaff DA, Roffman RA, **Perry MJ**, Cargill V, Crumble DA, Fuqua RW, Norman AD, Mercer MB. [HIV risk behaviors among women living in low-income, inner-city housing developments.](#) Am J Public Health 1996; 86(8):1123-8.
- 11) Norman AD, **Perry MJ**, Stevenson LY, Kelly JA, Roffman RA, Winett R, Solomon L, Steiner S, Lemke, A, Desiderato L, Sikkema K. [Lesbian and bisexual women in small cities—At risk for HIV?](#) Public Health Rep 1996; 111(4):347-52.
- 12) Albee GW, **Perry MJ**. [Letter from Florida: Are we preventing diseases or promoting competencies?](#) J Ment Hlth 1996; 5(4):421-2.
- 13) **Perry MJ**. [The relationship between social class and mental disorder.](#) J Primary Prev 1996; 17(1):17-30.
- 14) Heckman TG, Sikkema KJ, Kelly JA, Fuqua RW, Mercer MB, Hoffman RG, Winett RA, Anderson ES, **Perry MJ**, Roffman RA, Solomon LJ, Wagstaff DA, Cargill V, Norman AD, Crumble D. [Predictors of condom use and human immunodeficiency virus test seeking](#)

- [among women living in inner-city public housing developments](#). Sex Transm Dis 1996; 23(5):357-65.
- 15) **Perry MJ**, Albee GW, Bloom M, Gullotta TP. [Training and career paths in primary prevention](#). J Primary Prev 1996; 16(4):357-71.
  - 16) Sikkema KJ, Heckman TG, Kelly JA, Wagstaff DA, Winett RA, Solomon LJ, Roffman RA, Cargill V, Anderson ES, **Perry MJ**, Norman AD, Crumble DA, Mercer MB. [HIV risk behaviors among inner-city African-American women](#). Womens Hlth 1997; 3(3-4):349-66.
  - 17) Albee GA, **Perry MJ**. [Economic and social causes of sexism and of the exploitation of women](#). J Com App Soc Psychol 1998; 8(2):145-60.
  - 18) **Perry MJ**, Albee GA. Deterministic origins of sexism. Race, Gender, Class Studies 1998; 5(3):122-35.
  - 19) **Perry MJ**. [Gender, race and economic perspectives on the social epidemiology of HIV infection: Implications for prevention](#). J Primary Prev 1998; 19(2):97-104.
  - 20) **Perry MJ**, Layde PM. [Sources, routes, and frequencies of pesticide exposure among farmers](#). J Occup Environ Med 1998; 40(8):698-701.
  - 21) **Perry MJ**, Bloom FR. [Perceptions of pesticide associated cancer risks among farmers: A qualitative assessment](#). Hum Org 1998; 57(3):342-9.
  - 22) Cecil H, **Perry MJ**, Seal DW, Pinkerton SD. [The female condom: What have we learned thus far?](#) AIDS and Behav 1998; 2(3):241-56.
  - 23) **Perry MJ**, Christiani, D. [Herbicide and insecticide exposures among dairy farm pesticide applicators](#). Am J Public Health 1999; 89(7):1118-9.
  - 24) **Perry MJ**, Marbella AM, Layde PM. [Association of pesticide safety beliefs and intentions with behaviors among farm pesticide applicators](#). Am J Health Promot 1999; 14(1):18-21.
  - 25) Geffken, DF, **Perry MJ**, Callas PW. [Association of occupation and breast cancer mortality in the State of Vermont 1989-1993](#). McGill J Med 2000; 5:75-9.
  - 26) **Perry MJ**, Marbella A, Layde PM. [Association of pesticide safety knowledge with beliefs and intentions among farm pesticide applicators](#). J Occup Environ Med 2000; 42(2):187-93.
  - 27) Sikkema KJ, Kelly JA, Winett RA, Solomon LJ, Cargill VA, Roffman RA, McAuliffe TL, Heckman TG, Anderson EA, Wagstaff DA, Norman AD, **Perry MJ**, Crumble DA, Mercer MB. [Outcomes of a randomized community-level HIV prevention intervention for women living in 18 low-income housing developments](#). Am J Public Health 2000; 90(1):57-63.
  - 28) **Perry MJ**, Christiani DC, Mathew J, Degenhardt D, Tortorelli J, Strauss J, Sonzogni WC. [Urinalysis of atrazine exposure among farm pesticide applicators](#). Toxicol Ind Health 2000; 16(7-8):285-90.
  - 29) **Perry MJ**, Marbella AM, Layde PM. [Compliance with required pesticide-specific protective equipment use](#). Am J Ind Med 2002; 41(1):70-3.

- 30) LaMontagne AD, Youngstrom RA, Lewiton M, Stoddard AM, **Perry MJ**, Klar JM, Christiani DC, and Sorensen G. [An exposure prevention rating method for intervention needs assessment and effectiveness evaluation](#). Appl Occup Environ Hyg 2003; 18(7):523-34.
- 31) **Perry MJ**. [Children's agricultural health: Traumatic injuries and hazardous inorganic exposures](#). J Rural Health 2003; 19(3):269-78.
- 32) **Perry MJ**, Layde PM. [Outcomes of a randomized controlled intervention to reduce farm pesticide risks](#). Am J Preventive Med 2003; 24(4):310-15.
- 33) Rothman EF, **Perry MJ**. [Intimate partner abuse perpetrated by employees](#). J Occup Health Psychol 2004; 9(3):238-46.
- 34) Desai S, **Perry MJ**. [Tracking gender-based human rights violations in postwar Kosovo](#). Am J Pub Hlth 2004; 94(8):1304-7.\*
- 35) Cai C, **Perry MJ**, Sorock GS, Hauser R, Spanjer KJ, Mittleman MA, Stentz TL. [Laceration injuries among workers at meat packing plants](#). Am J Ind Med 2005; 47(5):403-10.\*
- 36) **Perry MJ**, Sun BX, Zhang HX, Wang X, Christiani D. [Emergency department surveillance of occupational injuries in Shanghai's Putuo District, People's Republic of China](#). Ann Epidemiol 2005; 15(5):351-7.
- 37) Venners SA, Korrick S, Xu X, Chen C, Guang W, Huang A, Altshul LS, **Perry MJ**, Fu L, Wang X. [Preconception serum DDT and pregnancy loss: a prospective study using a biomarker of pregnancy](#). Am J Epidemiol 2005; 162(8):709-16.
- 38) **Perry MJ**, Ouyang F, Korrick S, Venners SA, Altshul L, Xu X, Wang X. [Body mass index and serum 1,1,1-trichloro-2,2-bis\(p-chlorophenyl\)ethane in nulliparous Chinese women](#). Cancer Epidemiol Biomarkers Prev 2005; 14(10):2433-8.
- 39) Ouyang F, **Perry MJ**, Venners SA, Chen C, Wang B, Yang F, Fang Z, Zang T, Wang L, Xu X, Wang X. [Serum DDT, age at menarche, and abnormal menstrual cycle length](#). Occup Environ Med 2005; 62(12):878-84.\*
- 40) **Perry MJ**, May JJ. [Noise and chemical induced hearing loss: special considerations for farm youth](#). J Agromedicine 2005; 10(2):49-56.
- 41) **Perry MJ**, Marbella A, Layde PM. [Nonpersistent pesticide exposure self-report versus biomonitoring in farm pesticide applicators](#). Ann Epidemiol 2006; 16(9):701-7.
- 42) Smith GS, Timmons RA, Lombardi DA, Mamidi DK, Matz S, Courtney TK, **Perry MJ**. [Work-related ladder fall fractures: identification and diagnosis validation using narrative text](#). Accid Anal Prev 2006; 38(5):973-80.\*
- 43) Venners SA, Liu X, **Perry MJ**, Korrick SA, Li Z, Yang F, Yang J, Lasley BL, Xu X, Wang X. [Urinary estrogen and progesterone metabolite concentrations in menstrual cycles of fertile women with non-conception, early pregnancy loss or clinical pregnancy](#). Hum Reprod 2006; 21(9):2272-80.

- 44) Barrero LH, Hsu YH, Terwedow H, **Perry MJ**, Dennerlein JT, Brain JD, Xu X. [Prevalence and physical determinants of low back pain in a rural Chinese population](#). Spine (Phila Pa 1976) 2006; 31(23):2728-34.
- 45) **Perry MJ**, Ouyang F, Korrick SA, Venners SA, Chen C, Xu X, Lasley BL, Wang X. [A prospective study of serum DDT and progesterone and estrogen levels across the menstrual cycle in nulliparous women of reproductive age](#). Am J Epidemiol 2006; 164(11):1056-64.
- 46) **Perry MJ**, Venners SA, Barr DB, Xu X. [Environmental pyrethroid and organophosphorous exposures and sperm concentration](#). Repro Toxicol 2007; 23(1):113-8.
- 47) Jin K, Lombardi DA, Courtney TK, Sorock GS, **Perry MJ**, Cheng H, Wang X, Liang Y. [The challenge of cross-cultural collaborative research: lessons learnt from a pilot case-crossover study of severe occupational hand trauma in the People's Republic of China](#). Inj Prev 2007; 13(2):133-6.
- 48) **Perry MJ**, Chen X, Lu X. [Automated scoring of multiprobe FISH in human spermatozoa](#). Cytometry A 2007; 71(11):968-72.
- 49) Lander IL, Rudnick SN, **Perry MJ**. [Assessing noise exposures in farm youth](#). J Agromed 2007; 12(2):25-32.\*
- 50) McAuliffe M, **Perry MJ**. [Are nanoparticles potential male reproductive toxicants?](#) Nanotoxicology 2007; 1(3):204-8.\*
- 51) **Perry MJ**. [Effects of environmental and occupational pesticide exposure on human sperm: A systematic review](#). Human Reprod Update 2008; 14(3):233-42.
- 52) Nagata T, Setoguchi S, Hemenway D, **Perry MJ**. [The effectiveness of a law to reduce alcohol-impaired driving in Japan](#). Inj Prev 2008; 14(1):19-23.\*
- 53) London L, Ngowi AVN, **Perry MJ**, Rother HA, Cairncross E, Muangirwa C. [Action on pesticides - Health and economic consequences of pesticide use: The experience of research collaboration on pesticides in Southern Africa](#). Occ Health Develop 2008; 9:232-35.
- 54) Barrero LH, Katz JN, **Perry MJ**, Krishnan R, Ware JH, Dennerlein JT. [Work pattern causes bias in self-reported activity duration: A randomized study of mechanisms and implications for exposure assessment and epidemiology](#). Occup Environ Med 2009; 66(1):38-44.
- 55) Dennerlein JT, Ronk CJ, **Perry MJ**. [Portable ladder assessment tool development and validation- quantifying best practices in the field](#). Saf Sci 2009; 47(5):636-9.\*
- 56) Bello A, Quinn M, **Perry MJ**, Milton D. [Characterization of occupational exposures to cleaning products used for common cleaning tasks—a pilot study of hospital cleaners](#). Environ Health 2009; 8:11.
- 57) Lombardi DA, Verma SK, Brennan MJ, **Perry MJ**. [Factors influencing worker use of protective eyewear](#). Accid Anal Prev 2009; 41(4):755-62.

- 58) Lander L, Sorock G, Stentz TL, Eisen EA, Mittleman M, Hauser R, **Perry MJ**. [Validation of self-reported occupational exposures in meatpacking workers](#). Am J Ind Med 2009; 52(9):707-15.\*
- 59) Jin K, Lombardi DA, Courtney TK, Sorock GS, Li M, Pan R, Wang X, Lin J, Liang Y, **Perry MJ**. [Patterns of work-related traumatic hand injury among hospitalised workers in the People's Republic of China](#). Inj Prev 2010; 16(1):42-9.\*
- 60) Peters JL, Perlstein TS, **Perry MJ**, McNeely E, Weuve J. [Cadmium exposure in association with history of stroke and heart failure](#). Environ Res 2010; 110(2):199-206.
- 61) Barratt CLR, Aitken RJ, Bjorndahl L, Carrell DT, de Boer P, Kvist U, Lewis SEM, **Perry MJ**, Ramos L, Robaire B, Ward S, Zini A. [Sperm DNA: organization, protection and vulnerability: from basic science to clinical applications—position report](#). Hum Reprod 2010; 25(4):824-38.
- 62) Nagata T, Uno H, **Perry MJ**. [Clinical consequences of road traffic injuries among the elderly in Japan](#). BMC Public Health 2010; 10:375.\*
- 63) Lander L, Sorock GS, Stentz TL, Eisen EA, Mittleman M, Hauser R, **Perry MJ**. [A case-crossover study of occupational laceration injuries in pork processing: methods and preliminary findings](#). Occup Environ Med 2010; 67(10):686-92.\*
- 64) Verma SK, Chang WR, Courtney TK, Lombardi DA, Huang YH, Brennan MJ, Mittleman MA, **Perry MJ**. [Workers' experience of slipping in U.S. limited-service restaurants](#). J Occup Environ Hyg 2010; 7(9):491-500.\*
- 65) Bello A, Quinn M, **Perry MJ**, Milton D. [Quantitative assessment of airborne exposures generated during common cleaning tasks: a pilot study](#). Environ Hlth 2010; 9:76.
- 66) **Perry MJ**, Venners SA, Chen X, Liu X, Tang G, Xing H, Barr D, Xu X. [Organophosphorous pesticide exposures and sperm quality](#). Repro Toxicol 2011; 31(1):75-9.
- 67) Olsen K, Harris L-A Jr, Laird I, Legg S, Noble A, **Perry MJ**, Hasle P. [Differential intervention strategies to improve management of hazardous chemicals in small enterprises](#). Policy and Practice in Health and Safety 2010; 8(2):57-76.
- 68) Lander L, Eisen EA, Stentz TL, Spanjer KJ, Wendland BE, **Perry MJ**. [Near-miss reporting system as an occupational injury preventive intervention in manufacturing](#). Am J Ind Med 2011; 54(1):40-8.\*
- 69) Laird I, Olsen K, Harris L, Legg S, **Perry MJ**. [Utilising the characteristics of small enterprises to assist in managing hazardous substances in the workplace](#). Int J Workplace Health Manag 2011; 4(2):140-63.\*
- 70) Verma SK, Chang WR, Courtney TK, Lombardi DA, Huang YH, Brennan MJ, Mittleman MA, Ware JH, **Perry MJ**. [A prospective study of floor surface, shoes, floor cleaning and slipping in US limited-service restaurant workers](#). Occup Environ Med 2011; 68(4):279-85.\*
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- [slipping in limited-service restaurants – a case-crossover study](#). *Occup Environ Med* 2011; 68(8):575-81.\*
- 72) Connorton E, Miller M, **Perry MJ**, Hemenway D. [Mental health and unintentional injuries: results from the national co-morbidity survey replication](#). *Inj Prev* 2011; 17(3):171-5.
- 73) Ronk C, Dennerlein JT, Hoffman E, **Perry MJ**. [Is renovation riskier than new construction? An observational comparison of risk factors for stepladder related falls](#). *Am J Ind Med* 2011; 54(8):579-85.\*
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- 76) Lombardi DA, Smith GS, Courtney TK, Brennan MJ, Kim J, **Perry MJ**. [Work-related falls from ladders: A follow-back study of US emergency department cases](#). *Scand J Work Environ Health* 2011; 37(6):525-32.\*
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- 82) Kim S-S, Chung Y, Kawachi I, **Perry MJ**, Subramanian SV. [Association between Interpersonal Trust, Reciprocity, and Depression in South Korea: A prospective analysis](#). *PLoS One* 2012; 7(1): e30602.
- 83) Connorton E, **Perry MJ**, Hemenway D, Miller M. [Humanitarian relief workers and trauma-related mental health](#). *Epidemiol Rev* 2012; 34(1):145-55.



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- 88) Lander L, Sorock G, Stentz TL, Smith LM, Mittleman M, **Perry MJ**. [A case-crossover study of laceration injuries in pork processing](#). *Occ Environ Med* 2012; 69(6):410-6.\*
- 89) Wason SC, Smith TJ, **Perry MJ**, Levy JI. [Using physiologically-based pharmacokinetic models to incorporate chemical and non-chemical stressors into cumulative risk assessment: a case study of pesticide exposures](#). *Int J Environ Res Public Health* 2012; 9(5):1971-83.
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- 94) Bello A, Quinn MM, Milton D, **Perry MJ**. [Determinants of exposure to 2-butoxyethanol from cleaning tasks: a quasi-experimental study](#). *Ann Occup Hyg* 2013; 27(1):125-35.
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- 106) Goldstone AE, Chen Z, **Perry MJ**, Kannan K, Buck Louis GM. [Urinary bisphenol A and semen quality, the LIFE Study](#). *Repro Tox*. 2015 Jan;51:7-13.\*
- 107) Pearce N, Blair A, Vineis P, et al. [IARC Monographs: 40 years of evaluating carcinogenic hazards to humans](#). *Environ Health Perspect*. 2015 Jun;123(6):507-14.
- 108) **Perry MJ**. [Chemically induced DNA damage and sperm and oocyte repair machinery: the story gets more interesting](#). *Asian J Androl*. 2015 May. (Epub ahead of print).
- 109) Caban-Martinez AJ, Courtney TK, Chang W-R, Lombardi DA, Huang Y-H, Brennan MJ, **Perry MJ**, Katz JN, Christiani DC. [Leisure-time physical activity, falls, and fall injuries in middle-aged adults](#). *Am J Prev Med*. 2015 Dec;49(6):888-901.
- 110) Lander L, Sorock G, Stentz TL, Smith LM, Mittleman MA, Kim SS, **Perry MJ**. [Is depression a risk factor for meatpacking injuries?](#) *Work*. 2015 Aug 8.\*

- 111) Figueroa ZI, Young HA, Meeker JD, Martenies SE, Barr DB, Gray G, **Perry MJ**. [Dialkyl Phosphate Urinary Metabolites and Chromosomal Abnormalities in Human Sperm](#). Environ Res. 2015;143(Pt A):256-65.\*
- 112) **Perry MJ**, Ngyuen L, Porter N. [The current epidemiologic evidence on exposures to poly- and perfluoro- alkyl substances \(PFASs\) and male reproductive health](#). Curr Epidemiol Rep. 2016 Feb 17;3(1):19-26.\*
- 113) Portier C, et al. [Differences on the carcinogenicity of glyphosate between the International Agency for Research on Cancer \(IARC\), and the European Food Safety Agency \(EFSA\)](#). J Epidemiol Community Health. 2016 Mar 3; doi:10.1136/jech-2015-207005.
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- 115) Leibler JH, Jordan J, Brownstein K, Lander L, Price LB, **Perry MJ**. [Staphylococcus aureus nasal carriage among beefpacking workers in a Midwestern United States slaughterhouse](#). PLoS ONE. 2016 Feb 11;11(2): e0148789. doi: 10.1371/journal.pone.0148789.\*
- 116) **Perry MJ**, Young HA, Grandjean P, Halling J, Skaalum Petersen M, Martenies SE, Karimi P, Weihe P. [Sperm aneuploidy in men with elevated lifetime exposure to Dichlorodiphenylchloroethylene \(DDE\) and Polychlorinated Biphenyl \(PCB\) pollutants](#). Environ Health Persp. 2016 July 1;124(7):951-6.
- 117) Cimino AM, Boyles AL, Thayer KA, **Perry MJ**. [Effects of neonicotinoid pesticide exposure on human health: a systematic review](#). Environ Health Perspect. 2016 July 6; doi 10.1289/EHP515.\*
- 118) Leibler JH, **Perry MJ**. [Self-reported occupational injuries among industrial beef slaughterhouse workers in the Midwestern United States](#). J Occup Environ Hyg. 2016 Aug 11;00-00.
- 119) Mandrioli D, Belpoggi F, Silbergeld EK, **Perry MJ**. [Aneuploidy: a common and early evidence-based biomarker for carcinogens and reproductive toxicants](#). Environ Health. 2016 Oct 12;15(1):97.\*
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- 122) Hill A, **Perry MJ**, Levine P. [Agricultural practices and age of chronic myeloid leukemia diagnosis in India](#). Clinical Epidemiology and Global Health. 2018 Jun; 6(2):56-60.
- 123) Nassan F, Chavarro J, Mínguez-Alarcón L, Williams P, Tanrikut C, Ford J, Dadd R, **Perry MJ**, Hauser R, Gaskins A. [Residential distance to major roadways and semen quality, sperm DNA integrity, chromosomal disomy, and serum reproductive hormones among men attending a](#)

- [fertility clinic](#). Int J Hyg Environ Health. 2018 Jun; 221(5):830-837. doi: 10.1016/j.ijheh.2018.05.007.
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- 125) Rifkin D, Long M, **Perry MJ**. [Climate change and sleep. A systematic review of the literature and conceptual framework](#). Sleep Med Rev. 2018 Dec;42:3-9. doi: 10.1016/j.smrv.2018.07.007.\*
- 126) **Perry MJ**, Mandrioli D, Belpoggi F, Manservisi F, Panzacchi S, Irwin C. [Historical evidence of glyphosate exposure from a US agricultural cohort](#). Enviro Health, 2019; 18:42. Doi: <https://doi.org/10.1186/s12940-019-0474-6>
- 127) McCray N, Thompson L, Branch F, Porter N, Peterson J, **Perry MJ**. [Talking about public health with African American men: Perceptions of environmental health and infertility](#). Am J Men's Health 2020; <https://doi.org/10.1177%2F1557988320901375> (in press).\*
- 128) Sfargi D, Adam B, Budnik LT, Dinelli G, Moldovan HR, **Perry MJ**, Scheepers PTJ, Schlunssen V, Teixeira JP, Mandrioli D, Belpoggi F. Protocol for a systematic review and meta-analysis of human exposure to pesticide residues in honey and other bees' products. Enviro Research, 2020 186. Doi: <https://doi.org/10.1016/j.envres.2020.109470>
- 129) Lowenstein C, Vasco K, Sarzosa S, Salinas L, Mosco AT, **Perry MJ**, Simmens S, Trueba G, Eisenberg JNS, Graham JP. Determinants of childhood zoonotic enteric infections in a semirural community in Quito, Ecuador. Am J Trop Med Hyg 2020. Doi: <https://doi.org/10.4269/ajtmh.19-0690>
- 130) McCray N, Young HA, Irwig MS, Frankfurter D, Schwartz AM, Witmyer J, Hynes M, Jayanthi VV, Marcus M, Patel M, **Perry MJ**. The association between race obesity, and sperm quality among men attending a university physician practice in Washington DC. Am J Men's Health 2020 14(3). <https://dx.doi.org/10.1177%2F1557988320925985>.\*
- 131) **Perry MJ**, Arrington S, Neumann L, Carrell D, Mores C. It is currently uncertain if SARS-CoV 2 is sexually transmitted. Andrology, 2020 <https://doi.org/10.1111/andr.12831>.

#### Commentaries

- 1) **Perry MJ**. Graduate training and feminism: Maintaining an identity. Women Therap 1991; 11(1):111-8. doi:10.1300/J015V11N01\_11
- 2) **Perry MJ**, Albee GW. On the science of prevention. Am Psychologist 1994; 49(12):1087-8. doi: 10.1037/0003-066X.49.12.1087
- 3) **Perry MJ**. [The role of epidemiologists in funding biomedical education and research](#). Ann Epidemiol. 2016 Sep;26(9):601-4. doi: 10.1016/j.annepidem.2016.07.007.

- 4) Elliot K, Kleinstreuer N, McMullen P, Miller G, Mukherjee B, Peng RD, **Perry MJ**, Rasoulpour R, Boyle E. June 6-7, 2019. [Is Artificial Intelligence Revolutionizing Environmental Health? Blog: Simply Statistics.](#)

#### Book Reviews

- 1) Albee GW, **Perry MJ**. Changing course without rocking the boat (book review of Reducing risks for mental disorders: Frontiers for preventive intervention research). *Contemp Psychol* 1995; 40(9):843-46.
- 2) **Perry MJ**, Albee GW. [Can psychiatry acknowledge prevention?](#) (book review). *J Primary Prev* 1996; 17(1):209-15.
- 3) Mutaner CB, **Perry MJ**. Work, health and environment: A review (book review). *J Public Health Policy* 1998; 19(4):492-7.

#### Chapters in Books

- 1) **Perry MJ**, O'Hanlan KA. Gender, culture and health. In: Blechman E, Brownell K, (eds). Behavioral medicine for women: a comprehensive handbook. New York: Guilford, 1998:843.
- 2) **Perry MJ**, Hu H. Workplace health and safety. In: Frumkin H, (ed). Environmental health from local to global. San Francisco CA: Jossey-Bass, 1<sup>st</sup> Edition, 2005.
- 3) **Perry MJ**. Agricultural Health and Safety. In: Heggenhougen K, (ed). International Encyclopedia of Public Health. UK: Elsevier, 2008.
- 4) **Perry MJ**, Hu H. Workplace health and safety. In: Frumkin H, (ed). Environmental health: from local to global. San Francisco CA: Jossey-Bass, 2<sup>nd</sup> Edition, 2010.
- 5) **Perry MJ**. Agricultural Health and Safety. In: Caplan M, (ed). Reference Module in Biomedical Sciences. US: Elsevier, 2014.

#### Published Technical Reports

- 1) Geller B, **Perry MJ**, Frenya K. A qualitative study of women's opinions about breast and cervical cancer. Vermont Department of Health, Epidemiology Division Technical Report, 1994.
- 2) Geffken DF, Callas PW, **Perry MJ**. Characteristics of Vermont breast cancer mortality 1989-1993: Occupation, age and county of residence. University of Vermont, College of Medicine, Technical Report, 1996.\*
- 3) **Perry MJ**, Ronk C. [Preventing Falls from Ladders in Construction](#). CPWR: Center for Construction Research and Training. 2007.
- 4) **Perry MJ**, McQueen A, Kim SS. [Evaluating fall safety compliance among skilled trades in construction](#). CPWR: Center for Construction Research and Training. 2015

- 5) **Perry MJ**, McQueen A. [Fall hazards in commercial construction. Lessons learned from a unique opportunity.](#) CPWR: Center for Construction Research and Training. 2015

Recent Published Abstracts

- 1) Mandrioli D, Belpoggi F, Silbergeld EK, **Perry MJ**. Aneuploidy: a common and early evidence-based biomarker for carcinogens and reproductive toxicants. University of California, Berkley, January 27 2017.
- 2) Wright MG, **Perry MJ**. [Evaluation of exposure assessment methods used to quantify occupational exposure to carbon nanomaterials: a systemic review.](#) George Washington University Research Days, April 4-5, 2017 Washington DC.
- 3) Cannon P, **Perry MJ**. [Climate change and mental health: a systemic review.](#) George Washington University Research Days, April 4-5, 2017 Washington DC.
- 4) Trejo B, **Perry MJ**. [Agricultural pesticide exposure and congenital abnormalities \(CA\) in Mexico: a systemic review.](#) George Washington University Research Days, April 4-5, 2017 Washington DC.
- 5) Neumann LM, Mandrioli D, Bolpoggi F, Panzacchi S, Manservigi F, **Perry MJ**. [FISHing with rat sperm: the effect of glyphosate toxicity on sex chromosome aneuploidy in rats.](#) George Washington University Research Days, April 4-5, 2017 Washington DC.
- 6) McCray N, Irwig M, Frankfurter D, Hynes M, Lalwani S, Marcus M, Jayanthi V, Patel M, Young H, **Perry MJ**. [Association of Obesity, Race and Semen Parameters among Washington, DC-Area Men.](#) George Washington University Research Days, April 4-5, 2017 Washington DC.
- 7) Amaya-Fuentes R, **Perry MJ**. [Occupational exposure to Organophosphate Pesticides and its Effects on Human Sperm Parameters: A Systematic Review.](#) George Washington University Research Days, April 11, 2018 Washington DC.
- 8) Ramadan M, **Perry MJ**. [Human Evidence for Parental Glyphosate Exposure on Developmental Malformations and Neurodevelopmental Effects: Systematic Literature Review via the Navigation Guide Methodology.](#) George Washington University Research Days, April 11, 2018 Washington DC.
- 9) Irwin C, Nagarkatti K, Young H, Weihe P, Grandjean P, Neumann L, **Perry MJ**. [Sperm Aneuploidy in a Birth Cohort of Faroese Men Exposed in Utero to p,p-DDE and PCBs.](#) International Society of Exposure Science and the International Society for Environmental Epidemiology Joint Annual Meeting, August 26-30, 2018, Ottawa, Canada.
- 10) Neumann L, Attene-Ramos M, Weihe P, Grandjean P, **Perry MJ**. [Mitochondrial DNA Damage in Spermatozoa of Faroese Men Exposed to Organochlorines.](#) International Society of Exposure Science and the International Society for Environmental Epidemiology Joint Annual Meeting, August 26-30, 2018, Ottawa, Canada.
- 11) Ibe IN, Figueroa Z, Irwig M, Frankfurter D, Hynes M, Lalwani S, Marcus M, Jayanthi V, Patel M, **Perry MJ**. [Association Between Sperm Aneuploidy and Racial and Ethnic Diversity.](#) George Washington University Research Days, April, 2019 Washington DC.



- 12) Amaya Fuentes R, Young H, Irwin C, Crites J, Moody D, **Perry MJ**. [Measuring the Effects of THC on Human Sperm Parametes Using Biomonitoring Analysis](#). George Washington University Research Days, April, 2019 Washington DC.
- 13) McLeland-Wieser H, Attene-Ramos M, Young H, Mandrioli D, Belpoggi F, Panzacci S, Manservisi F, Neumann L, **Perry MJ**. [The Effects of Glyphosate on Rat Sperm Mitochondria](#). George Washington University Research Days, April, 2019 Washington DC.
- 14) Irwin C, Young H, Neumann L, Irwig M, Frankfurter D, Hynes M, Lalwani S, Marcus M, Jayanthi V, Patel M, **Perry MJ**. [Associations Between Sperm Aneuploidy and Risk for Obesity and Diabetes in Urban Men](#). George Washington University Research Days, April, 2019 Washington DC.
- 15) Andersen O, **Perry MJ**. [Intersex Wildlife as Sentinels for Human Health near Superfund Sites: A Systematic Review](#). George Washington University Research Days, April, 2019 Washington DC.
- 16) Paese M, **Perry MJ**. [Pesticide Exposure and Diabetes Among Agricultural Workers in Low- and Middle-Income Countries: A Systematic Review](#). George Washington University Research Days, April, 2019 Washington DC.
- 17) McLeland-Wieser H, Mandrioli A, Young H, Belpoggi F, Neumann L, Attene-Ramos M, Panzacchi S, Manservisi F, **Perry MJ**. [The Effects of Glyphosate Based Herbicides on Rat Sperm Mitochondria](#). Annual Conference of the International Society for Environmental Epidemiology, August 25-28, 2019, Utrecht, the Netherlands.

Recent Invited Presentations (No honorarium was received)

- 1) Speaker, The Human Health Effects of Neonicotinoids. International Task Force on Systemic Pesticides. Centre de Biophysique Moleculaire, Orleans, France, April 10-11, 2019.
- 2) Speaker, Organochlorines in Cord Blood and Risk for Sperm Aberrations. Center for Occupational and Environmental Health, Univeristy of Cape Town, South Africa, November 12-15, 2018
- 3) Speaker, Associations between Environmental Chemicals, Spermatogenesis and Non Disjunction. Environmental Mutagenesis and Genomics Society, San Antonio, Texas, September 22-26, 2018
- 4) Chair, Reproductive Functions. PPTox V1 Conference, Faroe Islands, Denmark, May 27-30, 2018.
- 5) Presenter, Sperm Aneuploidy in a Birth Cohort of Faroese Men Exposed to p,p'-DDE and PCB Pollutants. PPTox VI Conference, Faroe Islands, Denmark, May 27-30, 2018.
- 6) Endocrine Disruptors in Water in the Potomac River Valley. Cedar Lane Unitarian Church March Forum, March 30th, 2014.
- 7) Environmental Endocrine Disruptors and Male Reproductive Health. Johns Hopkins University Environmental Health Engineering Seminar Series, Johns Hopkins University, April 21st, 2014.

- 8) Expert Speaker, GW's "The World on a Plate: How Food Shapes Civilizations" class, The George Washington University, Washington, DC, April 2014.
- 9) Keynote address at Pesticides and the Chesapeake Bay Watershed Project 8th Annual Meeting. Hosted by the Maryland Organic Food & Farming Association, October 6th, 2014.
- 10) The Future of Public Health Education. Dean's Invited Speaker, Texas A&M University School of Public Health, October 28, 2014.
- 11) Speaker, 1st Annual Food Tank Summit. Hosted by GW and Food Tank, The George Washington University, Washington, DC, January 21, 2015.
- 12) Endocrine Disruptors in the Potomac. Presented as speaker in The York River and Small Coastal Basin Roundtable and the Chesapeake Bay National Estuarine Research Reserve in Virginia: Bees, Beetles and the Bay: Pesticide Impacts on Aquatic and Human Health and Pollinator Protection for a Healthy Chesapeake, Virginia Institute of Marine Science, Gloucester Point, VA, March 25, 2015.
- 13) Using Epidemiology to Prevent Occupational Injuries and Environmental Exposures. University of Pittsburgh Bioengineering Seminars 2015, Pittsburgh, PA, April 2, 2015.
- 14) White House Roundtable on Climate Change. White House, Washington, DC, April 9, 2015.
- 15) Host and Opening Remarks, USGCRP and GW Climate Change and Human Health Symposium. Washington, DC, April 20, 2015.
- 16) Pesticides: What is on the Occupational Medicine Horizon? Speaker, Annual American Occupational Health Conference Session 223: Updates on Epigenetic and Exposure Data on Pesticide and Herbicide for the Occupational Health Clinician, TRACK: Environmental Health and Risk Management. American College of Occupational and Environmental Medicine, Baltimore, MD, May 4, 2015.
- 17) Investigating the impacts of endocrine disrupting compounds on sperm health: a new potential effect biomarker. Presented at the 2015 International Congress on Rural Health & IV International Conference Ragusa Safety Health and Welfare in Agro-Food Systems, held in Lodi, Italy, September 8-11, 2015.
- 18) What Have You Done for Epidemiology Lately? The Role of Epidemiologists in Funding Biomedical Education and Research. Presidential Address at the American College of Epidemiology, delivered at the organization's annual meeting in Atlanta GA, September 29, 2015.
- 19) Opening remarks, Grading of Recommendations Assessment, Development and Evaluation (GRADE) working group. Washington, DC, May 2, 2016.
- 20) Public Health Education for the 21<sup>st</sup> Century. Dean's Lecture Series, University of Maryland School of Public Health. College Park, MD, May 10, 2016.
- 21) The New EDC Frontier: What Is Known About the Endocrine Disrupting Properties of Neonicotinoid Pesticides? Environmental Endocrine Disruptors Gordon Research Conference. Newry ME. June 19-24, 2016.



- 22) Moderator, Workshop on Personal Environmental Exposure Measurements. Making Sense and Making Use of Emerging Capabilities. National Academies of Sciences, Washington, DC November 16-17, 2016.
- 23) Health effects of neonicotinoid pesticides. North Carolina Pesticide Board, December 12, 2016.
- 24) Environmental chemicals and male reproductive impacts. Boston University School of Public Health, Boston MA, February 22, 2017.

MAJOR PROFESSIONAL SERVICE:

<u>National Service</u>	<u>Date(s)</u>
Reviewer, NIH National Institute of Child Health and Human Development, (NICHD) P50 Grant Review Special Emphasis Panel, National Centers for Translational Research in Reproduction and Infertility	2020
Member, Organizing Committee, The National Academies of Sciences, Is Artificial Intelligence Revolutionizing Environmental Health?	2019
Member, Organizing Committee, The National Academies of Sciences, Toward Understanding the Interplay of Environmental Stressors, Infections Disease, and Human Health	2019
Reviewer, NIEHS R13 Grant Review Special Emphasis Panel, NIH Center for Scientific Review	2018
Associate Editor, Environmental Health Perspectives	2017-present
Member, Organizing Committee, The National Academies of Sciences, Understanding Pathways to a Paradigm Shift in Toxicity Testing and Decision Making	2017-18
Ad Hoc Reviewer, NIEHS Intramural Epidemiology Branch	2017
Member, Organizing Committee, The National Academies of Science, Personal Environmental Exposure Measurements: Making Sense and Making Use of Emerging Capabilities	2016
Board Member, The Program for Preserving the Natural World	2015-present
Reviewer, Institute of Medicine Report: Evaluating Potential Exposure to Agent Orange/TCDD Residue and Level of Risk of Adverse Effects for Aircrew of Post-Vietnam C-123 Aircraft	2015
Chair, Board of Scientific Counselors (BSC), National Center for Environmental Health/Agency for Toxic Substances and Disease Registry (NCEH/ATSDR), CDC	2015-19
President, American College of Epidemiology	2014-15

Technical Advisory Board, Center for Construction Research and Training (CPWR)	2014-present
Board of Scientific Counselors (BSC), National Center for Environmental Health/Agency for Toxic Substances and Disease Registry (NCEH/ATSDR), CDC	2014-present
Invited Speaker, Capitol Hill Briefing: The Threat of Neonicotinoid Pesticides to Bees and Other Organisms, and the Risks to Human Health	2014
Program Committee Chair, American College of Epidemiology Annual Meeting	2014
Invited Speaker, Safer Chemicals Healthy Families Capitol Hill Briefing: Are Everyday Products Harming Reproductive Health?; The Link Between Toxic Chemical Exposure and Infertility	2013
Associate Editor, Reproductive Toxicology	2013-2016
Invited Speaker, Steering Committee, National Academy of Sciences Workshop on the Design of the National Children's Study: Decisions about Environmental Measures	2013
Secretary, American College of Epidemiology	2012-13
Mentor and Graduation Speaker, USAID Hope Fellows Program	2011
Reviewer, Committee on Decision-Making Under Uncertainty, Institute of Medicine of the National Academies	2011, 2012
Planning Group Member, Falls Prevention Campaign, National Occupational Research Agenda (NORA) Construction Sector Council	2011-14
Study Section Member, Safety and Occupational Health Study Section, National Institute of Occupational Safety and Health	2011-15
Journal Editorial Board Member, Environmental Health	2011-present
Member, Scientific Understanding Work Group, National Conversation on Public Health and Chemical Exposures, Centers for Disease Control and Prevention	2009-11
Reviewer, India Science & Technology Partnership Program, Smithsonian Institution	2009
Board of Directors, American College of Epidemiology	2008-11
Vice-chair, Membership Committee, American College of Epidemiology	2008
Chairperson, Special Emphasis Review Panel, NIH, NIDCR R21 Applications	2005
Abstract Reviewer, American Public Health Association Annual Meeting	2005-07

Reviewer, Boston Women's Health Book Collective, "Our Bodies, Our Selves"	2005
Reviewer, Special Emphasis Panel Intramural Program Grants – Intervention Research, NIOSH	2007
IRG Epidemiology Members Review Panel, NIH	2004
State Models for Oral Cancer Prevention, NCI & NIDCR	2004-05
Community Partners for Healthy Farming Intervention, NIOSH	2003
Member, Advisory Board, Occupational Health Program, Massachusetts Department of Public Health	2002-10
Ad Hoc Reviewer, Epidemiology and Disease Control II Scientific Review Study Section (EDCII), NIH	2000-02
Reviewer, JAMA, Am J Epidemiology, Environ Health Perspectives, Am J Pub Health, J Occup Environ Med, J Agromedicine, J Ag Safety and Health, Social Science Med, Applied Ergo, Public Health, Public Health Reports, Human Reproduction, Trends in Pharmacological Sciences, Asian Journal of Andrology, Environmental Research, J of Assisted Repro Genetics	1999-present
Member, Membership Committee, American College of Epidemiology Chair, Recruitment Subcommittee	2000-10 2001
Reviewer, Scientific Review Committee, Cornell University Program on Breast Cancer and Environmental Risk Factors	2000
Reviewer, Scientific Review Committee, American Psychological Foundation	1999
Consultant, Women's and Children's Health Policy Center, Johns Hopkins School of Public Health	1998-2000
Reviewer, Prevention Center Program Special Emphasis Panel, Centers for Disease Control and Prevention	1996
<u>International Service</u>	
International Advisory Board, International Congress on Rural Health, International Association of Rural Health and Medicine	2014-16
Project Advisor, Albanian Asbestos Remediation, Ministry of the Environment	2013
Grant Reviewer, Portuguese Foundation for Science and Technology	2012
Advisor, Occupational Health in Small Businesses, Massey University, New Zealand	2007
Member, National Cancer Institute of Canada Steering Committee on Cancer Prevention	2006-07
Co-Investigator, University of Cape Town, South Africa and Tropical Pesticides Research Institute, Arusha, Tanzania	2003-07
Consultant, Ministry of Health of Albania and Ministry of Health of Kosovo	1999-2002

School and University Service

Member, GW Office of Laboratory Safety Advisory Committee	2020
Co-Lead, GW Academic Leaders Academy	2019-present
Champion, Global Onboarding and Orientation, GW Culture Leadership Team	2019
Elected Member, GW Faculty Senate	2019-present
Chair, Decanal Search Committee for 5 SPH Deans: Senior Associate Dean for Academic, Student, and Faculty Affairs; Associate Dean for Practice; Associate Dean for Master's Education; Assistant Dean for Undergraduate Education; Assistant Dean for Graduate Education	2018-19
Chair, Working Group on Research Pre Award, University Research Ecosystem Review	2018-19
Reviewer, GW Office for the Vice President of Research Pew Scholars Program	2018
Member, GW Cancer Center	2017-present
Member, GW University Advisory Counsel on Research	2017-18
Member, GW Center for AIDS Research	2017-present
Elected Member, Faculty Senate, George Washington University	2016
Speaker, GW Food Tank Summit	2015
Chair, GW SPH Laboratory Sciences Investigators Committee	2016-20
Chair, GW SPH Public Health Laboratory Sciences Faculty Search Committee	2014-19
Reviewer, GW Centers and Institutes Food for Thought Program	2012
Chair, GW SPHHS Strategic Planning Committee on Research and Teaching Labs	2012
Member, Appointment, Promotion and Tenure Committee (APT), The School of Public Health and Health Services, The George Washington University	2012-16
Member, Research Advisory Council, The School of Public Health and Health Services, The George Washington University	2012-present
Chair, University-wide Search Committee for the Executive Director of Sustainability, The George Washington University	2011-14
Member, Advisory Committee, McCormick Genomic and Proteomic Center, The George Washington University Medical Center	2011
Member, HSPH Department of Environmental Health Curriculum Committee	2008-10

Faculty Affiliate, Environmental Science & Public Policy Program, Harvard College	2008-10
Faculty Member, Harvard Med School Center for Health and the Global Environment	2007-10
Member, HSPH Postdoctoral Advisory Committee	2007-10
Faculty Member, HSPH Alternative Curriculum Steering Committee	2007-10
Chair, HSPH Ad Hoc Grievance Committee	2006
Member, Committee on the Concerns of Women Faculty	2006-10
Faculty Council Liaison, HSPH Committee on the Concerns of Women Faculty	2005-06
Elected Member, HSPH Faculty Council	2004-06 term
Member, Population Sciences Core, Harvard Dana Farber NCI Cancer Center	2004-10
Committee Member, HSPH Allston Planning Committee	2004
Laboratory Research Mentor, HSPH Summer Research Apprenticeship Program	2004
Mentor, HMS Biomedical Sciences Career Program	2004-07
Member, Organics Core, Harvard NIEHS Environmental Center	2003-10
Faculty Member, HSPH Women, Gender, and Health Interdisciplinary Concentration	2002-10
Coordinator, Environmental and Occupational Medicine and Epidemiology Research Seminar Series	2001-09

PROFESSIONAL SOCIETIES:

Member, American Association for the Advancement of Science  
 American College of Epidemiology  
 American Public Health Association  
 American Society of Andrology  
 Environmental Mutagenesis and Genomics Society  
 International Society for Environmental Epidemiology

MAJOR ADMINISTRATIVE RESPONSIBILITIES:

Chair, Department of Environmental and Occupational Health, Milken Institute School of Public Health, George Washington University	2011-16
Director, Concentration in Occupational and Environmental Health, Master of Public Health Program, Harvard School of Public Health	2008-10
Co-Director, Occupational Injury Prevention Training Program, Harvard Education and Research Center (ERC), Harvard School of Public Health	2001-10

Associate Director, Cancer Prevention and Control Research, Cancer Center, Medical College of Wisconsin 1995-97

TEACHING EXPERIENCE:

<u>Date</u>	<u>Title</u>	<u>Institution</u>	<u>Experience</u>
2016-present	Professor	GW Milken Institute	PubH 6135 Researching Climate Change and Human Health, Course Architect and Course Lead
2014-15	Professor	GW Milken Institute SPH	PubH 6121 Environmental and Occupational Epidemiology Online, Course Architect, Fall & Spring Course Lead
2013	Professor	GWUSPHHS	PubH 6121 Environmental and Occupational Epidemiology, Fall Course Lead
2013	Professor	GWUSPHHS	PubH 6015 Culminating Experience in Environmental Health Science & Policy
2012	Professor	GWUSPHHS	PubH 6199 Climate Change, Sustainability, and Human Health, Course Architect
2008-10	Associate Professor	HSPH	ID538 Foundations of Public Health, Interdepartmental, Graduate, Fall
2007	Assistant Professor	HSPH	EH278 Human Health and Global Environmental Change, Dept. of Environmental Health, Graduate, Spring
2006	Assistant Professor	U of Iowa, Center for International Rural Environ Health	Global Health and the Environment International Course, Course Lecturer, Graduate
2004-07	Assistant Professor	HSPH	WGH211 Women, Gender and Health: Introductory Perspectives, Course Lecturer, WGH Interdisciplinary Concentration, Graduate
2003-07	Assistant Professor	HSPH	EH282 Injury Epidemiology and Prevention Course Developer and Leader, Dept. of Environmental Health, Graduate, Spring
2003	Session Leader/ Lecturer	New England College Occ/Environ Medicine (NECOEM)	Agricultural Health: Traumatic Injuries and Hazardous Chemical Exposures, Continuing Medical Education, Occ. Med Physicians
2003-05	Assistant Professor	HSPH	Women, Gender and Health Interdisciplinary Concentration, Curriculum Developer

2002-05	Assistant Professor	HSPH	EH202 Principles of Environmental Health Course Leader, Dept. of Environmental Health, Graduate & Occ/Environ Med Residents, Spring & Summer
2000-01 2005-06	Instructor (Assist. Prof.)	HSPH	EH202 Principles of Environmental Health Course Lecturer, Dept. of Environmental Health, Graduate
2000 2004-05	Instructor (Assist. Prof.)	HSPH	EH200 Introduction to Environmental Health Course Lecturer, Dept. of Environmental Health, Graduate
2000	Instructor	U of Massachusetts-Lowell	Occupational Cancer Epidemiology Course Lecturer, Dept. of Work Environment, Graduate
1998-99	Visiting Scientist	HSPH	EHE 215 Environmental and Occupational Epidemiology Course Lecturer, Depts. of Epidemiology and Environmental Health, Graduate
1997	Visiting Scientist	HSPH	HSB 231 Community Interventions and Disease Prevention, Course Lecturer, Dept. of Health and Social Behavior, Graduate
1997	Visiting Scientist	HSPH	EPI 224 Cancer Prevention Course Lecturer, Dept. of Epidemiology, Graduate
1997	Assistant Professor	U of Wisconsin-Milwaukee	Environmental Psychology Course Lecturer, Dept. of Psychology, Undergraduate
1996-1997	Assistant Professor	Medical College of Wisconsin	Cancer Epidemiology, Course Developer and Director, Div. Of Epidemiology, Graduate
1996	Assistant Professor	U of Wisconsin-Milwaukee	Community Studies Course Lecturer, Dept. of Educational Policy and Community Studies, Graduate
1996	Assistant Professor	U of Wisconsin-Madison	Environmental Toxicology Course Lecturer, Dept. of Plant and Social Science, Undergraduate
1995	Assistant Professor	U of Vermont	Psychology of Women Course Developer and Director, Dept. of Psychology, Undergraduate
1994	Assistant Professor	U of Vermont	Primary Prevention Course Co-Director, Dept. of Psychology, Graduate

GWU Milken Institute School of Public Health ADVISING:

<u>Student</u>	<u>Status</u>	<u>Role</u>
Hilary McClelland Wisner	MPH	2020 CE Advisor
Casey Kalman	MPH	2020 CE Advisor
Tahera Alnaseri	MPH	2020 CE Advisor
Rebecca Ortego	MPH	2020 CE Advisor
Quinn Lombard	MPH	2020 CE Advisor
Eric Knapke	MPH	2020 Academic and CE Advisor
Maggie Paese	MPH	2019 CE Advisor
Olivia Anderson	MPH	2019 CE Advisor
Francesca Branch	Doctoral	2019 Thesis Chair
Parisa Karimi	Doctoral	2018 Thesis Chair
Mustafa Ramadan	MPH	2018 CE Advisor
Roxana Fuentes	MPH	2018 CE Advisor
Brenda Trejo	MPH	2017 CE Advisor
Andrea Cimino	MPH	2017 CE Advisor
Paul Cannon	MPH	2016 CE Advisor
Nathan McCray	MPH	2016 Academic and CE Advisor
Andrea Nance	MPH	2016 Academic Advisor
Rebecca Cohen	MPH	2016 Academic Advisor
Nicholas Porter	MPH	2016 CE Advisor
Taylor Katz	MPH	2016 CE Advisor
Lance Thompson	MPH	2016 CE Advisor
Zaida Figueroa	Doctoral	2015 Thesis Chair
Sara Lupolt	MPH	2015 Academic Advisor
Amanda McQueen	MPH	2015 Academic and CE Advisor
Emma Zinsmeister	MPH	2015 Academic Advisor
Pierre Cartier	MPH	2014 CE Advisor
Sara Mostafa	MPH	2014 CE Advisor
Emily Ryan	MPH	2014 CE Advisor
Alexandra Goldstone	MPH	2014 Academic and CE Advisor
Sarah Scheinfeld	MPH	2014 Academic Advisor
Sheena Martenies	MPH	2013 CE Advisor
Veronica Tinney	MPH	2013 CE Advisor
Kenechi Onwubalili	MPH	2012 CE Advisor
Ashley Williams	MPH	2012 CE Advisor
Stephanie Moran	MPH	2012 Culminating Experience (CE) Advisor
Seung-Sup Kim	Post-Doctoral	2011-13 Advisor

Prior Advising Responsibilities at Other Institutions:

Harvard School of Public Health ADVISING:

<u>Student</u>	<u>Status</u>	<u>Role</u>
Xing Chen	Doctoral	2010 Advisor
Megan McAuliffe	Doctoral	2010 Advisor
Christopher Ronk	Doctoral	2010 Advisor
Susan Chemerynski	Doctoral	2010 Thesis Committee Member
Ellen Connorton	Doctoral	2010 Thesis Committee Member
Seung-Sup Kim	Doctoral	2010 Orals Committee Member



Richard Adusa Poku	Masters	2010 Advisor
Santosh Verma	Doctoral	2009 Thesis Advisor
Derrick Cordy	Masters	2009 Advisor
Anila Bello	Doctoral	2008 Thesis Committee Member
Jaeyoung Kim	Doctoral	2008 Orals Chair/Thesis Committee Member
Kerry Souza	Doctoral	2008 Orals Committee Chair
Lina Lander	Doctoral	2008 Thesis Advisor
Kezhi Jin, PhD	Research Fellow	2008 Research Advisor
Kafui Adjaye-Gbewonyo	Undergrad Honors	2007 Thesis Advisor
Lope Barrero	Doctoral	2007 Orals Chair/Thesis Committee Member
Yelena Wetherill	Postdoctoral Fellow	2007 Advisor
Ian Laird, PhD	Fulbright Fellow	2006 Research Advisor
Takashi Nagata, MD	Takemi Fellow	2006 Research Advisor
Shona Fang	Doctoral	2006 Orals Committee Member
Jennifer Cavallari	Doctoral	2005 Orals Committee Member
Rolanda Dhimitri, PhD	Postdoctoral Fellow	2005 Fellowship Advisor
Emily Rothman	Doctoral	2004 Thesis Committee Member
Robert Timmons	Occ Med Resident	2004 Research Advisor
Kathleen McCarty	Doctoral	2003 Orals Committee Member
Sapna Desai	Master	2003 Research Advisor

U of WISCONSIN ADVISING:

1998-99	Committee Member	U of Wisconsin-Madison	Doctor of Philosophy in Environ. Studies Institute of Environmental Studies
1996-97	Advisor	U of Wisconsin-Madison	Master of Science in Epidemiology Thesis, Dept. of Preventive Medicine

U of VERMONT ADVISING:

1995	Advisor	U of Vermont	Undergraduate Honors Research Project, Dept. of Psychology
1995	Advisor	U of Vermont	Medical Student Research Project in Epidemiology, Dept. of Family Practice

Executive Leadership Training:

2015-17	American Management Association Courses The Voice of Executive Leadership, Strategic Planning, Women in Business Leadership		
2018	Academic Impressions: Chairing a Department		

Other Educational Board Service:

2015-17	Member, Board of Trustees, Aidan Montessori School, Washington DC		
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## COVID19 Human Resources Training

2020 COVID-19: Masks And Personal Protective Equipment: An Employer's Responsibility And Liability (526070 | 20-YM5YV)

COVID-19, Testing, and Temperatures: How to Make Things Safer as Employees Return to Work (526069 | 20-CUKXY)

COVID-19 and OSHA Requirements (521457 | 20-UTXD2)

## Expert Legal Testimony

United States District Court, Western District of Missouri Rural Community Workers Alliance and Jane Doe, Vs. Smithfield Foods, Inc. and Smithfield Fresh Meats Corp., 5:20-cv-06063-DGK

Derrick Palmer, Kendia Mesidor, Benita Rouse, Alexander Rouse, Barbara Chandler, and Luis Pellot-Chandler, Plaintiffs, Vs. Amazon.Com, Inc. and Amazon.Com Services LLC, 1:20-Cv-2468-Bmc

## COVID Related Media Appearances 2020

### Television

Al Jazeera

<https://www.aljazeera.com/news/2020/05/coronavirus-meat-processing-plants-forced-close-200503085143495.html>

CBS News

<https://www.cbsnews.com/news/coronavirus-meat-processing-companies-increase-pay-jbs/>

NBC News

<https://myNBC15.com/news/coronavirus/top-dc-scientist-calls-for-urgent-research-on-covid-19-and-sperm>

### Print News

South Dakota News watch

<https://www.sdnewswatch.org/stories/special-report-regulation-gaps-and-missed-opportunities-allowed-covid-19-to-spread-in-u-s-meatpacking-plants/>

Philadelphia Inquirer

<https://www.inquirer.com/business/retail/cdc-20200501.html>

<https://www.inquirer.com/business/health/a/coronavirus-bell-evans-chicken-plant-latino-workers-pa-20200615.html>

Kaiser health news

<https://khn.org/news/to-curb-coronavirus-whats-behind-the-wearing-of-a-mask/>

The Counter:

<https://thecounter.org/meat-processing-plant-covid-19-cdc-report-coronavirus/>

Medium:

<https://elemental.medium.com/wearing-a-mask-while-running-sucks-you-should-probably-do-it-anyway-90547d8eea19>

The Guardian

<https://www.theguardian.com/world/2020/may/17/protective-gear-coronavirus-chemicals>

Op Ed: The Hill

<https://thehill.com/opinion/healthcare/498735-meats-versus-worker-safety-its-a-false-dichotomy>

E&E News:

<https://www.eenews.net/climatewire/stories/1063640381>

Professional Networking Platforms

[https://www.linkedin.com/posts/jordyndahl\\_togetherinbusiness-activity-6673646750047318016-Uynx](https://www.linkedin.com/posts/jordyndahl_togetherinbusiness-activity-6673646750047318016-Uynx)

<https://www.linkedin.com/feed/news/businesses-wrangle-safety-protocols-4847460/>