

From: **James E. Enstrom** <jenstrom@ucla.edu>
Date: Mon, Nov 27, 2023 at 9:11 AM
Subject: Allegation of GMU Research Misconduct by Lucas Henneman
To: Christopher DiTeresi <cditeres@gmu.edu>

November 27, 2023

Christopher DiTeresi, PhD
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Re: Allegation of Research Misconduct by GMU Assistant Professor Lucas Henneman

Dear Research Integrity Officer DiTeresi,

Please review my Allegation of Research Misconduct by GMU Assistant Professor Lucas Henneman (Henneman) (<https://volgenau.gmu.edu/profiles/lhennem>). I am submitting my Allegation in accord with the GMU ORIA policy on research misconduct (<https://oria.gmu.edu/topics/research-misconduct/>). My Allegation is that Henneman has engaged in Falsification by repeatedly and deliberately falsifying the research record on the relationship between fine particulate matter (PM2.5) and mortality in the US. This portion of my Allegation is limited to falsification in the November 24, 2023 *Science* article “Mortality risk from United States coal electricity generation” by Lucas Henneman, Christine Choirat, Irene Dedoussi, Francesca Dominici, Jessica Roberts, and Corwin Zigler (DOI: 10.1126/science.adf4915).

The Abstract of this article states “We estimated the number of deaths attributable to coal PM2.5 from 1999 to 2020 using individual-level Medicare death records representing 650 million person-years. Exposure to coal PM2.5 was associated with 2.1 times greater mortality risk than exposure to PM2.5 from all sources. A total of 460,000 deaths were attributable to coal PM2.5, representing 25% of all PM2.5-related Medicare deaths before 2009 and 7% after 2012.” However, the Abstract and full article make NO reference to the PM2.5-deaths controversy that has existed since 1993 or to the massive body of evidence that there is NO causal relationship between PM2.5 and mortality in the US. This uncited null evidence invalidates the Abstract statements that there are PM2.5-related deaths associated with coal electricity generation. This uncited null evidence is well-known and has been deliberately omitted by the lead author Henneman. Henneman has been directly involved since 2012 with prominent PM2.5 researchers, particularly Dominici and Zigler (<https://www.lucashenneman.org/uploads/cv.pdf>).

Extensive evidence of NO deaths caused by PM2.5 and misuse of Medicare records for PM2.5 death claims is described in my January 4, 2022 Scientific Misconduct Complaint to the Harvard Chan School of Public Health against Dominici (<http://www.scientificintegrityinstitute.org/JEEDominici010422.pdf>) and (<https://junkscience.com/2022/01/enstrom-files-misconduct-complaint-against-harvard-pm2-5-researchers/>). Also, on September 15, 2021, I made a strong case for removing Dominici from the NASEM Committee assessing causality regarding PM2.5 deaths and the review of national air quality standards (NAAQS) (<http://www.scientificintegrityinstitute.org/NASEMDominici091521.pdf>).

After your assessment of this portion of my Allegation, I plan to submit the additional portions of my Allegation of Research Misconduct by Henneman. Your assessment must include understanding how my Allegation relates to the ongoing process of the Biden EPA to tighten the PM2.5 NAAQS in spite of strong evidence that such tightening is scientifically and economically unjustified. The adverse consequences of this tightening were described on September 19, 2023 by the House Energy Committee Chair Kathy McMorris Rodgers: “New EPA [PM2.5] standards will devastate American manufacturing and jobs” (<https://energycommerce.house.gov/posts/chair-rodgers-new-epa-standards-will-devastate-american-manufacturing-and-jobs>).

Thank you very much for your timely consideration of my Allegation.

Sincerely yours,

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