Curriculum Vitae

Sarah E. Rothenberg, D.Env.
Associate Professor
Oregon State University
College of Health
Environmental and Occupational Health Program
103 Milam Hall, Corvallis, Oregon, 97331, USA
Email: sarah.rothenberg@oregonstate.edu
Office: +1 541-737-3732

1. Education

2000	B.S.	Applied Mathematics	University of California, Los Angeles
2002	M.S.	Statistics	University of California, Los Angeles
2007	D.Env.	Environmental Science & Engineering	University of California, Los Angeles

2. Postdoctoral Training

2007-2008	San Francisco Estuary Institute, Oakland, California
2008-2011	Institute of Geochemistry, Chinese Academy of Sciences, Guiyang, China (NSF Grant 0802014 PI: Rothenberg)
2011	New York University, Department of Epidemiology & Health Promotion, College of Dentistry (NIH NRSA, T32, PI: Katz)

3. Continuing Education

2022	Oregon State University, Anti-Racist Instruction
2024	Oregon State University, Writing Intensive Curriculum (WIC)

4. Academic Appointments

2020-Present	Associate Professor (with tenure), Oregon State University College of Health Environmental and Occupational Health Program
2017-2020	Assistant Professor, Oregon State University College of Health Environmental and Occupational Health Program
2011-2017	Assistant Professor, University of South Carolina, Department of Environmental Health Sciences

5. Federal/State/International Grants (since 2011)

Active:

2025-2027	The Fogarty International Center (NIH): Planning Grant: Developing the Research Capacity to Investigate the Practice of Geophagy Among Pregnant Mothers and Impacts on Children's Neurodevelopment (Award: 1R21TW013293) (**PI: Rothenberg**)
2024-2028	U.S.- Israel Binational Science Foundation (BSF): Associations between Prenatal PFAS Exposure and Neonatal Development (APPEND) (PI: Berkowitz) (**Role: Co-I**)

Completed:

2022-2025	The US National Institute of Environmental and Health Sciences (NIH): Parental Co-Exposure to Methylmercury and Inorganic Arsenic in Zebrafish (*Danio rerio*): Metabolism and Offspring Behavior (Award R21 ES033753) (**PI: Rothenberg**)

2020-2024 The US National Institute of Environmental and Health Sciences (NIH): Exploratory Use of Stable Mercury Isotopes to Distinguish Dietary Sources of Methylmercury and Their Relation to Neurodevelopment (Award R21 ES032600-01) (**PI: Rothenberg**)

2022-2024 Oregon Sea Grant: Associations Between PFAS and Urogenital Cancer in Non-Stranded California Sea Lions (*Zalophus californianus*). (**PI: Rothenberg**)

2022-2023 Oregon Department of Education: Statewide Sampling of Heavy Metals in K-12 School Garden Soils and Compost (**PI: Rothenberg**)

2020-2023 Oregon Sea Grant: PBDEs/Methylmercury and Immune Function in Non-Stranded Male California Sea Lions (*Zalophus californianus*) (Project No. R/ECO-42-Rothenberg2022) (**PI: Rothenberg**)

2016-2020 The US National Institute of Environmental and Health Sciences (NIH): Methylmercury Exposure Through Rice Ingestion, Gut Microbes, and Offspring Development (Award R21 ES026412) (**PI: Rothenberg**)

2013-2016 The US National Institute of Environmental and Health Sciences (NIH): Maternal Methylmercury Exposure Through Rice Ingestion and Offspring Development (Award R15 ES022409) (**PI: Rothenberg**)

2012-2015 The US Department of Agriculture – Agriculture and Food Research Initiative: The Effect of Aerobic and/or Intermittently Flooded Rice Cultivation on AQP Transcription Levels and the Nutritional Quality of Rice Grain (Award 2012-69002-19796) (**PI: Rothenberg**)

6. Federal Grants (postdoctoral)

2008-2010 National Science Foundation, International Research Fellowship Program (Award 0802014) The influence of sulfur cycling on mercury methylation in rice paddies in the mining areas of Guizhou Province, China (**PI: Rothenberg**)

7. Awards for student advisees (since 2017)

2023 Megan Blackledge, "Comparison of Mercury Concentrations in Fur and Whisker Samples from Wild Sea Lions (*Zalophus californianus* and *Eumetopias jubatus*) from the Columbia River Basin." January 2023 Annual Cascadia Symposium on Environmental, Occupational, and Population Health. Best Poster Presentation

2021-2022 Pemika Kruearat, "Reducing Burn Injuries Among Student Food Service Employees at Oregon State University." Northwest Center of Occupational Health & Safety, Professional Training Opportunities Program (PTOP) (UW2390)

2020-2021 Sigride Vencesla Jenniska Asseko, Oregon Sylff Fellowship for International Research

8. Publications in peer-reviewed journals
(students and post-doctoral researchers are underlined)

Li, Y., Zhang, T., Ma, J., Ma, R., Liu, J., Xu, J., **Rothenberg, S.E.,** Yan, C.-H., Zhang, J., Luo, Z.-C., Wang, X., Ouyang, F., (2025). Early pregnancy blood heavy metal(loid)s and low sea-fish consumption

in relation to risk of gestational diabetes mellitus among Shanghai Birth Cohort (SBC) women, Environment International. 206, https://doi.org/10.1016/j.envint.2025.109959

Rothenberg, S.E., Flores, A.C., Anderson, M.K. (2025). Recreational fishing downstream from the Black Butte Mine Superfund Site in Oregon, USA. Scientific Reports, 15, https://doi.org/10.1038/s41598-025-02005-y PMID: 40399400 PMCID: PMC12095490

Mock, A.J., Virzi, T., Reed, T.A., **Rothenberg, S.E**., Rodríguez-Jorquera, I., Trexler, J.C., Frederick, P. (2025). Mercury exposure in an endangered songbird: influence of marsh hydrology and evidence for early breeding impairment. Ecotoxicology, 34, 480-495.

Chapela-Lara, S. Avar, O., Fernandez, L., Villareal-Palacios, D., Vilchez-Barreto, P., Gamboa-Moran, R., **Rothenberg, S.E.,** Pan, W.K., O'Neal, S.E. (2024). Mercury levels in hair of pregnant women in Tumbes, Peru: a cross-sectional study. American Journal of Tropical Medicine & Hygiene. 112, 217-225. PMID: 39531695 PMCID: PMC11720761

Rothenberg, S.E., Korrick, S.A., Harrington, D., Thurston, S.W., Janssen, S.E., Tate, M.T., Nong, Y., Nong, H., Liu, J., Hong, C., Ouyang, F. (2024). Hair mercury isotopes, a noninvasive biomarker for dietary methylmercury exposure and biological uptake. Environmental Science Processes & Impacts. 26, 1975-1985. PMID: 39193654 PMCID: PMC11560691

Strickman, R.J., Larson, S., Farhat, Y.A., Hoang, V.A.T., **Rothenberg, S.E**., Neumann, R.B. (2024). Effects of elevated CO_2 on MeHg and IHg in rice. Environmental Advances. 16, https://doi.org/10.1016/j.envadv.2024.100515

Rothenberg, S.E., Beechler, B.R., Burco, J.D., Rae, S., Steingass, S.M., Barton, D., Johns, J.L., Russell, D.S., Deignan, K., Blackledge, M.M., Nation, A. (2023). Associations between urogenital carcinoma and DECA-BDE (BDE-209) among wild California Sea lions (*Zalophus californianus*) and Steller Sea lions (*Eumetopias jubatus*). Science of the Total Environment. 900, https://doi.org/10.1016/j.scitotenv.2023.166412, PMID: 37611708

Rothenberg, S.E. (2023). Invited Perspective: Linking the intergenerational impacts due to mercury exposure in Grassy Narrows First Nation, Canada. Environmental Health Perspectives, 13. https://doi.org.10.1289/EHP12721. PMID: 37466318 PMCID: PMC10355146

Rothenberg, S.E., Furrer, J.M., Ingram, L.A., Ashford-Carroll, T., Foster, S.A., Hystad, P., Hynes, D.M., Navab-Daneshmand, T., Branscum, A.J., Kruearat, P. (2023). Sanitary sewage overflows, boil water advisories, and emergency room and urgent care visits for gastrointestinal illness: a case-crossover study in South Carolina, USA, 2013-2017. Journal of Exposure Science & Environmental Epidemiology, https://doi.org/10.1038/s41370-022-00498-7. PMID: 36376586. PMCID: PMC9851942

Punshon, T., Jackson, B.P., Donohue, A., Hong, C., **Rothenberg, S.E**., (2022). Distribution and accumulation of mercury in pot-grown African rice cultivars (*Oryza glaberrima* Steud. and *Oryza sativa* L.) determined via LA-ICP-MS. Environmental Geochemistry & Health, 11, 4077-4089. https://doi.10.1007/s10653-021-01169-6. PMID: 34981270 PMCID: PMC9376884

Rothenberg, S.E., Sweitzer, D.N., Rackerby, B.R., Couch, C.E., Cohen, L.A., Broughton, H.M., Steingass, S.M., Beechler, B.R., (2021). Fecal methylmercury correlates with gut microbiota taxa in Pacific walruses (*Odobenus rosmarus divergens*). Frontiers in Microbiology, 12, https://doi.org/10.3389/fmicb.2021.648685 PMID: 34177830 PMCID: PMC8220164

Rothenberg, S.E., Korrick, S.A., Liu, J., Nong, Y., Nong, H., Hong, C., Trinh, E.P., Jiang, X., Biasini, F.J., Ouyang, F., (2021). Maternal methylmercury exposure through rice ingestion and child neurodevelopment in the first three years: a prospective cohort study in rural China. Environmental Health. 20, https://doi.org/10.1186/s12940-021-00732-z. PMID: 33910568 PMCID: PMC8082930

Rothenberg, S.E., Chen, Q., Shen, J., Nong, Y., Nong, H., Trinh, E.P., Biasini, F.J., Liu, J., Zeng, X., Zou, Y., Ouyang, F., Korrick, S.A., (2021). Neurodevelopment correlates with gut microbiota in a cross-sectional analysis of children at 3 years of age in rural China. Scientific Reports. 11, https://doi.org/10.1038/s41598-021-86761-7 PMID: 33795717 PMCID: PMC8016964

Thessen, A.E., Grondin, C.J., Kulkarni, R.D., Brander, S., Truong, L., Vasilevsky, N.A., Callahan, T.J., Chan, L.E., Westra, B., Willis, M., **Rothenberg, S.E**., Jarabek, A.M., Burgoon, L., Korrick, S.A., Haendel, M.A., (2020). Community approaches for integrating environmental exposures into human models of disease. Environmental Health Perspectives, 128, https://ehp.niehs.nih.gov/doi/full/10.1289/EHP7215. PMID: 33369481 PMCID: PMC7769179

Rothenberg, S.E., Wagner, C.L., Hamidi, B., Alekseyenko, A.V., Azcarate-Peril, M.A., (2019). Longitudinal changes during pregnancy in gut microbiota and methylmercury biomarkers, and reversal of microbe-exposure correlations. Environmental Research. 172, 700-712. PMID: 30903970 PMCID: PMC6675619.

Loosli, F., Wang, J, **Rothenberg, S**., Bizimis, M., Winkler, C., Borovinskaya, O., Flamigni, L., Baalousha, M., (2019). Sewage spills are a major source of titanium dioxide engineered (nano)- particle release into the environment. Environmental Science: Nano, 6, 763-777. PMID: 31853367 PMCID: PMC6919659

Emmons, A.M., Bizimis, M., Lang, S.Q., Stangler, W., Geidel G., Baalousha, M., Wanamaker, E., **Rothenberg, S.E**., (2018). Enrichments of metals, including methylmercury, in sewage spills in South Carolina, USA. Journal of Environmental Quality. 47, 1258-1266. PMID: 30272795 PMCID: PMC7372966

Donohue, A., Wagner, C.L., Burch, J.B., **Rothenberg, S.E.,** (2018). Blood total mercury and methylmercury among pregnant mothers in Charleston, South Carolina, USA. Journal of Exposure Science and Environmental Epidemiology. 28,494-504. PMID: 29670220 PMCID: PMC7425126

Rothenberg, S.E., Jackson, B.P., McCalla, G.C., Donohue, A., Emmons, A.M., (2017). Co-exposure to methylmercury and inorganic arsenic in baby rice cereals and rice-containing teething biscuits. Environmental Research. 159, 639-647. PMID: 28938205 PMCID: PMC5661960.

Rothenberg, S.E., Yin, R., Hurley, J.P., Krabbenhoft, D.P., Ismawati, Y., Hong, C., Donohue, A., (2017). Stable mercury isotopes in polished rice (*Oryza sativa* L.) and hair from rice consumers. Environmental Science and Technology. 51, 6480-6488. PMID: 28482656 PMCID: PMC5464010.

Sen, I.S., Mitra, A., Peuker-Ehrenbrink, B., **Rothenberg. S.E.**, Tripathi S.N., Debajyoti, P., Bizimis, M., (2016). Emerging airborne contaminants in India: platinum group elements from catalytic converters in motor vehicles. Applied Geochemistry. 75, 100-106. DOI: 10.1016/j.apgeochem.2016.10.006

Rothenberg, S.E., Anders, M., Ajami, N., Petrosino, J.F., Balogh, E., (2016). Water management impacts rice methylmercury and the soil microbiome. Science of the Total Environment. 572, 608-617. PMID: 27450246 PMCID: PMC5099098.

Rothenberg, S.E., Yu, X., Liu, J., Biasini, F.J., Hong, C., Jiang, X., Nong, Y., Yue, C., Korrick, S.A., (2016). Maternal methylmercury exposure through rice ingestion and offspring neurodevelopment: A prospective cohort study. International Journal of Hygiene and Environmental Health, 219, 832-842. PMID: 27503636 PMCID: PMC5086436

Hong, C., Yu, X., Liu, J., Cheng, Y., **Rothenberg, S.E.,** (2016). Low-level methylmercury exposure through rice ingestion in a cohort of pregnant mothers in rural China. Environmental Research. 150, 519-527. PMID: 27423706 PMCID: PMC5003649

Drevnick, P.E., Cooke, C.A., Barraza, D., Blais, J.M., Coale, K.H., Cumming, B.F., Curtis, C.J., Das, B., Donahue, W.F., Eagles-Smith, C.A., Engstrom, D.R., Fitzgerald, W.F., Furl, C.V., Gray, J.E., Hall, R.I., Jackson, T.A., Laird, K.R., Lockhart, W.L., Macdonald, R.W., Mast, M.A., Mathieu, C., Muir, D.C.G., Outridge, P.M., Reinemann, S.A., **Rothenberg, S.E**., Ruiz-Fernández, A.C., St. Louis, V.L., Sanders, R.D., Sanei, H., Skierszkan, E.K., Van Metre, P.C., Veverica, T.J., Wiklund, J.A., (2016). Spatiotemporal patterns of mercury accumulation in lake sediments of western North America. Science of the Total Environment. 568, 1157-1170. PMID: 27102272. DOI: 10.1016/j.scitotenv.2016.03.167

Rothenberg, S.E., Keiser, S., Ajami, N.J., Wong, M.C., Gessell, J., Petrosino, J.F., Johs, A., (2016). The role of gut microbiota in fetal methylmercury exposure: insights from a pilot study. Toxicology Letters 242, 60-67. PMID: 26626101 PMCID: PMC4707065

Rothenberg, S.E., Korrick, S.A., Fayad, R., (2015). The influence of obesity on blood mercury levels for U.S. non-pregnant adults and children: NHANES 2007-2010. Environmental Research. 138, 173-180. PMID: 25721244 PMCID: PMC4385493

Rothenberg, S.E., Mgutshini, N.L., Bizimis, M., Johnson-Beebout, S.E., Ramanantsoanirina, A., (2015). Retrospective study of methylmercury and other metal(loid)s in Madagascar unpolished rice (*Oryza sativa* L.). Environmental Pollution. 196, 1-9. PMID: 25463705 PMCID: PMC4352114

Rothenberg, S.E., Windham-Myers, L., Creswell, J.E. (2014). Rice methylmercury exposure and mitigation: a comprehensive review. Environmental Research. 133, 407-423. PMID: 24972509 PMCID: PMC4119557

Rothenberg, S.E., Yu, X., Zhang, Y., (2013). Prenatal methylmercury exposure through maternal rice ingestion: Insights from a feasibility pilot in Guizhou Province, China. Environmental Pollution. 180, 1-8. DOI: 10.1016/j.envpol.2013.05.037, PMID: 23800416.

Rothenberg, S.E., Feng, X., Zhou W., Tu, M., Jin, B., You, J. (2012). Environment and genotype controls on mercury accumulation in rice (*Oryza sativa* L.) cultivated along a contamination gradient in Guizhou, China. Science of the Total Environment, 426, 272-280. DOI:10.1016/j.scitotenv.2012.03.024. PMID: 22513403

Rothenberg, S.E., Feng, X (2012). Mercury cycling in a flooded rice paddy. Journal of Geophysical Research- Biogeosciences. Vol. 117, G03003, https://doi.10.1029/2011JG001800.

Rothenberg, S.E., Feng, X., Dong, B., Shang, L., Yin, R. Yuan, X., (2011). Characterization of mercury species in brown and white rice (*Oryza sativa* L.) grown in water-saving paddies. Environmental Pollution, 159, 1283-1289. DOI: 10.1016/j.envpol.2011.01.027. PMID: 21349615

Rothenberg, S.E., Feng, X., Li, P. (2011). Low-level maternal methylmercury exposure through rice ingestion and potential implications for offspring health. Environmental Pollution, 159, 1017-1012. DOI:10.1016/j.envpol.2010.12.024. PMID: 21276645

Rothenberg, S.E., McKee, L., Gilbreath, A., Yee, D., Connor, M., Fu, X., (2010c), Evidence for short-range transport of atmospheric mercury to a rural, inland site. Atmospheric Environment, 44, 1263-1273. https://doi.org/10.1016/j.atmosenv.2009.12.032.

Rothenberg, S.E., McKee, L., Gilbreath, A., Yee, D., Connor, M., Fu, X., (2010), Wet deposition of mercury within the vicinity of a cement plant before and during cement plant maintenance. Atmospheric Environment, 44, 1255-1262. https://doi.org/10.1016/j.atmosenv.2009.12.033.

Rothenberg, S.E, Kirby, M.E., Bird, B.W., DeRose, M.B., Lin, C-C., Feng, X., Ambrose, R.F., Jay, J.A., (2010). The impact of over 100 years of wildfires on mercury levels and accumulation rates in two lakes in southern California, USA. Environmental Earth Sciences 60, 993-1005. https://doi.org/10.1007/s12665-009-0238-7.

Fu, X., Feng, X., Zhu, W., **Rothenberg, S.**, Yao, H., Zhang, H. (2010). Elevated atmospheric deposition and dynamics of mercury in a remote upland forest of southwestern China. Environmental Pollution, 158, 2324-2333. DOI:10.1016/j.envpol.2010.01.032. PMID: 20199832

Zhang H., Feng, X, Larssen T., Shang, L., Li, P., **Rothenberg, S.E.**, Lin, Y., Zhang, H., Vogt, R.D., (2010). Fractionation, distribution and transport of mercury in rivers and tributaries around Wanshan Hg mining district, Guizhou Province, southwestern China Part 1: Total mercury. Applied Geochemistry, 25, 633-641. DOI:10.1016/j.apgeochem.2010.01.006

Fu, X.W., Feng, X.B., Wang, S.F., **Rothenberg, S.**, Shang, L.H., Li, Z.G., Qiu, G.L. (2009). Temporal and spatial distributions of total gaseous mercury concentrations in ambient air in a mountainous area in southwestern China: implications for industrial and domestic mercury emissions in remote areas in China. Science of the Total Environment 407, 2306-2314. DOI:10.1016/j.scitotenv.2008.11.053. PMID: 19138788

Rothenberg, S.E, Ambrose, R.F., Jay, J.A., (2008b). Evaluating the potential efficacy of mercury total maximum daily loads on aqueous methylmercury levels in four coastal watersheds. Environmental Science and Technology 42, 5400-5406. DOI:10.1021/es702819f. PMID: 18754452

Rothenberg, S.E, Ambrose, R.F., Jay, J.A., (2008a). Mercury cycling in surface water, pore water and sediments of Mugu Lagoon, CA., USA. Environmental Pollution 154, 32-45. DOI:10.1016/j.envpol.2007.12.013. PMID: 18342417

Rothenberg, S.E., Du, X., Zhu,Y.-G., Jay, J.A., (2007). The impact of sewage irrigation on the uptake of mercury in corn plants (*Zea mays*) in suburban Beijing. Environmental Pollution 149, 246-251. DOI:10.1016/j.envpol.2007.01.005. PMID: 17442470

Marcotullio, P.J., **Rothenberg, S.,** Nakahara, M., (2003). Globalization and urban environmental transitions: comparison of New York and Tokyo's experiences. The Annals of Regional Science, 37, 369-390. DOI:10.1007/3-540-28351-X_19

9. Advisor , Oregon State University (2017-present)
Baccalaureate of Science (BS)

2023 Petrina, G.E. An Evaluation of Community Attitudes Towards Gender-Based Violence in Partnership with the Community of Maunatlala, Botswana (Honors Baccalaureate of Science in Biochemistry and Biophysics, Committee Member)

Master of Science (MS)

2022 Rae, S. Assessing Mercury Levels, Health Metrics, and Immune Function in Non-stranded Male California and Steller Sea Lions in Oregon (Comparative Health Sciences, MS, Committee Co-Chair)
2022 Leong, C. Evaluating the Dietary Toxicity of Per-and Polyfluoroalkyl Substances and Development of a High Throughput Non-Invasive Zebrafish Cortisol Assay. (Environmental & Molecular Toxicology, M.S, Graduate Council Representative)
2023 Lopez, T.C.R. Sampling Plan to Determine Mercury (Hg) Contamination in the Nanay River Basin. (College of Forestry, Master of Natural Resources, Committee Chair)
2023 Stricker, A. Potassium iodide Versus N95 Masks: An Effectiveness Comparison. (Radiation Health Physics, MS, Graduate Council Representative)
2023 Depaepe, A. Purification and Characterization of Mouse Retinal Endothelial Cell Exosomes: Implications for Multi-Omics Analysis (Environmental & Molecular Toxicology, Graduate Council Representative)
2024 Aljayan, L.N. Exploring the Effect of Essential Oils on Seed Germination, Radicle Development, and Seedling Growth in Wheat and Barley (Crop Science, MS, Committee Member)
2025 Quillin, T. (Nutrition, MS-PD, Committee Co-Chair)
2025 Foley, E. (Nutrition, MS-PD, Committee Member)
(2026) Madachy, A. (Nutrition, MS-PD, Committee Chair)
(2026) Younce, K. (Environmental and Molecular Toxicology, Graduate Council Representative)
(2026) DeDan, W. (Environmental Science, Water Resources, Committee Member)
(2027) Bare, J. (Environmental Science, Water Resources, Committee Chair)
(2027) Halwood, S. (Nutrition, MS-PD, Committee Chair)

Master of Public Health (MPH)

2018 Neville, M. West Nile surveillance in Linn County (Environmental and Occupational Health, MPH, Committee Chair)
2019 Cocks, M. Domestic well safety in Benton County, OR (Environmental and Occupational Health, MPH, Committee Member)
2019 Fitch, S., Safety and health achievement recognition program (SHARP) assessment at the City of Eugene Public Works Department (Environmental and Occupational Health, MPH, Committee Member)
2020 Glaspell, H. Design and Implementation of a Near-Miss Management System in a University Research Setting (Environmental and Occupational Health, MPH, Committee Member)
2021 Munro, T. Assessing Community Member Risk Perceptions of Using Reusable Servingware During COVID-19 in Marion County, Oregon (Environmental and Occupational Health, MPH, Committee Chair)
2021 Tromblay, K. West Eugene Community Environmental Health: Air Pollution Health Risks and School Environmental Inequalities (Environmental and Occupational Health, MPH, Committee Member)
2021 Wenzlick, N. Evaluating Nitrate Levels in Oregon Private Wells Using the Real Estate Transaction Database (Environmental and Occupational Health, MPH, Committee Member)
2021 Kruearat, P. Injury/accident data analysis in Environmental Health and Safety (EHS) department at Oregon State University, Oregon (Environmental and Occupational Health, MPH, Committee Chair)
2021 Jacobson, M. Milepost 97 Wildfire Air Quality and Health Outcomes (Environmental and Occupational Health, MPH, Committee Member)

2022 Castillo-Chilcote, E. Temporal and Spatial Patterns of Nitrate and Arsenic Contamination in Domestic Well Water in Oregon (Environmental and Occupational Health, MPH, Committee Member)
2022 Kahn, P. A Small Glimpse into Employee Safety and Hazard Perceptions in the Construction Carpentry Industry (Environmental and Occupational Health, MPH, Committee Member)
2022 Barth, H. (Public Health Practice, MPH, Committee Chair)
2023 Vogel, T. (Public Health Practice, MPH, Committee Chair)
2024 Urrutia, K. (Public Health Practice, MPH, Committee Chair)
2024 Austin, S. (Public Health Practice, MPH, Committee Chair)
2024 Winter, K. (Public Health Practice, MPH, Committee Chair)
2025 Maronilla, A. (Public Health Practice, MPH, Committee Chair)
2025 Udarbe, L. (Public Health Practice, MPH, Committee Chair)
2025 Kelly, D. (Public Health Practice, MPH, Committee Chair)
(2026) Krecklow, G. (Environmental and Occupational Health, MPH, Committee Chair)
(2026) Menon, R. (Public Health Practice, MPH, Committee Chair)
(2026) Parrish, J. (Public Health Practice, MPH, Committee Chair)
(2026) Rodriguez, N.R. (Public Health Practice, MPH, Committee Chair)
(2027) Perez, Y.G. (Public Health Practice, MPH, Committee Chair)
(2027) Paul, J. (Environmental and Occupational Health, MPH, Committee Chair)
(2027) Eid, J. (Public Health Practice, MPH, Committee Chair)
(2027) Martinez, N. (Public Health Practice, MPH, Committee Chair)
(2027) Giruc, T. (Public Health Practice, MPH, Committee Chair)

Ph.D

2021 Maggio, S. A Multi-tiered Approach to Using Daphnia Magna to Assess Chlorpyrifos Risk to Aquatic Receptors (Environmental & Molecular Toxicology, Ph.D., Graduate Council Representative)
2023 Huizenga, J.M. Aromatic Hydrocarbon Contaminants: Investigations of Detection Methods, Bioremediation Strategies, and Toxicity Impacts (Environmental Engineering, Ph.D., Graduate Council Representative)
2024 Fender, C. Nontarget High-Resolution Mass Spectrometry Approaches in Environmental Toxicology: Discovering Water Pollutants and Understanding Health Effects (Environmental & Molecular Toxicology, Ph.D., Graduate Council Representative)
2024 Asseko, S. Novel Approaches for Assessment of Air Pollution Exposures and Health Risks in Low- and Middle-Income Settings (Environmental and Occupational Health, Ph.D., Committee Member)
(2026) Salehi Sedeh, M. (Environmental and Occupational Health, Ph.D., Committee Member)
(2026) Stinson, S. (Environmental & Molecular Toxicology, Ph.D., Graduate Council Representative)
(2028) Lopez, K. (Global Health, Ph.D., Committee Member)

Fulbright host

2024 Mulenga, D. from Copperbelt University – School of Medicine, Ndola, Zambia

University of South Carolina (2011-2017)

Baccalaureate of Science (BS)

2014 Heidari, L. Developing a Sustainable After-School Gardening Program that Emphasizes Nutrition and Environmental Education (Baccalaureus Artium et Scientiae in Environmental Health (BArt et Scien) Honors College, Committee Member)

Master of Science (MS)

2013 Antle, R. Tidal Flux of Transition Metals and Rare Earth Elements in a Barrier Island Salt Marsh (Earth and Ocean Sciences, M.S., Committee Member)

2015 Ntihabose, R. Evaluation Des Biomarqueurs D'Exposition Au Manganese Chez Les Enfants Qui Boivent De L'Eau Des Puits Au Nouveau-Brunswick. (M.S. Department of Chemistry and Biochemistry, Universite de Moncton, Canada, External Reviewer)

2015 Jones, S. Uptake of Nanoparticles by *Vibrio Gazogenes*. (Environmental Health Sciences, M.S., Committee Member)

2017 Donohue, A. Does Vitamin D supplementation influence prenatal methylmercury exposure? (Environmental Health Sciences, M.S., Committee Chair)

2017 Emmons, M. The Impacts of the 1000-Rain Event on Sewage Outfalls and Metals Cycling (Master of Earth and Environmental Resource Management, M.S. Committee Chair)

Master of Public Health (MPH)

2014 Adelui, A. The Rocky Branch Watershed: Evidence for Mercury Pollution (Environmental Health Sciences, M.P.H., Committee Chair)

Ph.D.

2017 Hong, C. Maternal Methylmercury Exposure Through Rice Ingestion and Offspring Development (Environmental Health Sciences, Ph.D., Committee Chair)

2017 Orekoya, B. Breastfeeding, Gestational Weight Gain, and Offspring Development in a Chinese Cohort. (Epidemiology and Biostatistics, Ph.D., Committee Member)

10. Presentation Abstracts (since 2011)

Presenters are listed, and student and postdoctoral advisees are underlined.

Asseko, S. (2025) Characterizing Polycyclic Aromatic Hydrocarbons and Chemical Exposure Mixtures for Individuals Using Solid Fuels for Cooking in Low-and-Middle Income Countries (LMICs). August 2025, International Society of Environmental Epidemiology, Atlanta, GA.

Rothenberg, S. (2025) The Modifying Effects of Maternal Diet (Fish versus Rice) on the Associations Between Prenatal Methylmercury Exposure and Children's Neurodevelopment: An Investigation Utilizing Stable Mercury Isotopes. July 2025, Goldschmidt Conference, Prague, Czech Republic.

Harris, K. (2025) Evaluating Mercury Emissions From A Prescribed Burn in West Bend, Oregon. Undergraduate Research Day, May 20, 2025, Corvallis , OR.

Rothenberg, S. (2024) Associations between Urogenital Cancer (UGC) and Environmental Pollutants (Mercury, Arsenic, and PFAS) in California sea lions (Zalophus californianus) from the Columbia River Basin, Oregon. November 23, 2024, State of the Coast, Seaside, Oregon.

Rothenberg, S. (2024) Associations Between In Utero MeHg Exposure and Child's Weight, from Birth to 36 Months, in China and Norway. July 2024, 16th International Conference on Mercury as a Global Pollutant (ICMGP), Cape Town, South Africa.

Adams, J. (2024) Parental Co-Exposure to Methylmercury and Inorganic Arsenic in Zebrafish (*Danio rerio*): Neurobehavioral Impacts on Adults and Offspring. March 2024, Society of Toxicology, Salt Lake City, UT.

Rothenberg, S. (2023). Mercury Isotopes and Methylmercury Exposure in a Birth Cohort in Rural China. July 2023, Goldschmidt Conference, Lyon, France.

Watras, A. (2023). Reducing Dietary Exposure to Inorganic Arsenic (*Danio rerio*). May 2023, Undergraduate Research, Scholarship, and the Arts. Oregon State University, Corvallis, OR.

*Blackledge, M. (2023). Comparison of Mercury Concentrations in Fur and Whisker Samples from Wild Sea Lions (*Zalophus californianus* and *Eumetopias jubatus*) from the Columbia River Basin. January 2023 Annual Cascadia Symposium on Environmental, Occupational, and Population Health, Blaine, WA. *Best Poster Presentation

Rothenberg, S.E. (2022). Sanitary sewage overflows, boil water advisories, and emergency room and urgent care visits for gastrointestinal illness: a case-crossover study in South Carolina, USA, 2013-2017. October 2022, South Carolina Water Resources Conference, Columbia, SC.

Hoang, V.A.T. and Rothenberg, S.E. (2019) Total Mercury and Methylmercury Concentrations in Rice from Three Cities in Vietnam (Hanoi, Hue, and Ho Chi Minh City). Society for Environmental Toxicology and Chemistry (SETAC), Toronto, Canada

Rothenberg, S.E. (2019) Prenatal Co-Exposure to Methylmercury and Inorganic Arsenic. Society for Environmental Toxicology and Chemistry (SETAC), Toronto, Canada.

Rothenberg, S.E. (2018) Stable Mercury Isotopes in Polished Rice (*Oryza sativa* L.) and Hair from Rice Consumers. Rice Technical Workgroup, Long Beach, Ca.

Rothenberg, S.E. (2017) Maternal Methylmercury Exposure Through Rice Ingestion and Offspring Neurodevelopment: A Prospective Cohort Study. 13th International Conference on Mercury as a Global Pollutant (ICMGP), Providence, RI.

Emmons, M. (2017) The Impact of Sanitary Sewage Overflows on Surface Water Methylmercury and Other Metals, Following the 1000-Year Rain Event in Columbia, South Carolina, USA. 13th International Conference on Mercury as a Global Pollutant (ICMGP), Providence, RI.

Donohue, A. (2017) Speciation of Blood Mercury Among Pregnant Mothers in Charleston, South Carolina, USA. 13th International Conference on Mercury as a Global Pollutant (ICMGP), Providence, RI.

Rothenberg, S.E. (2016) Maternal Methylmercury Exposure Through Rice Ingestion and Offspring Neurodevelopment: A Prospective Cohort Study. U.S. National Institutes of Environmental Health Sciences (NIEHS)-Fest. Durham, N.C.

Rothenberg, S.E. (2016) Maternal Methylmercury Exposure Through Rice Ingestion and Offspring Neurodevelopment: A Prospective Cohort Study. 9th Conference on Metal Toxicity & Carcinogenesis, Lexington, KY.

Orekoya, O. (2016) Maternal gestational weight gain and offspring's weight at 1 year of age in rural Guangxi province, China: the mediating role of birth weight. Society for Epidemiologic Research (SER), Miami, Florida.

Hong, C. (2015) Maternal Methylmercury Exposure Through Rice Ingestion in Rural China. Society for Environmental Toxicology and Chemistry (SETAC), Salt Lake City, Utah.

Rothenberg, S.E. (2015) The Role of Gut Microbiota in Fetal Methylmercury Exposure: Insights from a Pilot Study. Society for Environmental Toxicology and Chemistry (SETAC), Salt Lake City, Utah.

Rothenberg, S.E. (2015) The Influence of Water Management on Arsenic Uptake in Rice Grain and Aquaporin Expression in Rice Roots. Society for Environmental Toxicology and Chemistry (SETAC), Salt Lake City, Utah.

Hong, C. (2014) Maternal Methylmercury Exposure Through Rice Ingestion and Offspring Development: Preliminary Results, Int'l Society for Environmental Epidemiology (ISEE), Seattle, WA.

Rothenberg, S.E. (2014) The Influence of Gut Microbiota on the Speciation and Toxicity of Mercury during Pregnancy: Results from a Feasibility Pilot, Int'l Society for Environmental Epidemiology (ISEE), Seattle, WA.

Rothenberg, S.E. (2014) The Influence of Obesity on Blood Mercury Levels: NHANES (2007-2010) Int'l Society for Environmental Epidemiology (ISEE), Seattle, WA.

Baker, L.M. and Rothenberg, S.E. (2013) The Effect of AWD on AQP Transcriptional Abundance in Rice Plants and the Nutritional Quality of Rice Grain, International Conference on the Biogeochemistry of Trace Elements, Athens, GA.

Rothenberg, S.E. (2013) Rice and Mercury: Biogeochemistry and Implications for Human Health, 11th International Conference on Mercury as a Global Pollutant (ICMGP), Edinburgh, UK

Rothenberg, S.E. (2013) Hg Species & Other Trace Elements (As, Se, Mn, Cu, Zn, Cd & Rb) in Madagascar Rice, 11th International Conference on Mercury as a Global Pollutant (ICMGP), Edinburgh, UK.

Rothenberg, S.E. (2012) Methylmercury Accumulation in Rice Grain (*Oryza sativa* L.): Environment and Genotype Controls, International Conference on Heavy Metals in the Environment (ICHMET), Rome, Italy.

Rothenberg, S.E. (2012) Maternal Methylmercury Exposure Through Rice Ingestion and Offspring Development: Results from a Feasibility Pilot, International Society of Environmental Epidemiologists (ISEE), Columbia, SC.

Rothenberg, S.E. (2011) Mercury species in rice grain grown along a contamination gradient in Guizhou province, China. 10th International Conference on Mercury as a Global Pollutant (ICMGP), Halifax, Nova Scotia, Canada.

Rothenberg, S.E. (2011) Mercury cycling in a flooded rice paddy. 10th International Conference on Mercury as a Global Pollutant (ICMGP), Halifax, Nova Scotia, Canada.

Rothenberg, S.E. (2011) The UNEP Toolkit: Concerns about Over-Estimation of Environment Hg Releases Due to Dental Amalgam Use. 10th International Conference on Mercury as a Global Pollutant (ICMGP), Halifax, Nova Scotia, Canada

11. Academic Service

2026 The U.S. National Institutes of Health, Special Section, Topics in Hepatology and Toxicology

2025	The U.S. National Institutes of Health, the Environmental Determinants of Disease (EDD) study section, ad-hoc member
2024	The U.S. National Institutes of Environmental Health Sciences, Superfund Hazardous Substance Research and Training Program, P42 Study Section
2024	The U.S. National Institutes of Health, Neurotoxicology and Alcohol Study Section (NAL), ad-hoc member
2023	The U.S. National Institutes of Environmental Health Sciences, Maintaining and Enriching Epidemiology Cohorts to Support Scientific and Workforce Diversity, U24 Study Section
2023	The U.S. National Institutes of Health, Environmental Determinants of Disease (EDD) Study Section, ad-hoc member
2022	The U.S. National Institutes of Environmental Health Sciences, Revolutionizing Innovative, Visionary Environmental health Research (RIVER) R35 Study Section
2016-2021	The U.S. National Institutes of Health, Study Section ad-hoc member (multiple)
2015, 2017	U.S. National Science Foundation, Geobiology and Low Temperature Geochemistry Division & Atmospheric Chemistry Division

2022- present	Member, Editorial Review Board, Journal of Exposure Science and Environmental Epidemiology

Manuscript reviewer, ad-hoc

Science, Nature, Nature Communications; and the following journals are alphabetized: Biological Trace Element Research, Canadian Journal of Fisheries and Aquatic Science, Chemosphere, Environmental & Experimental Botany, Ecotoxicology & Environmental Safety, Environment International, Environmental Geochemistry, Environmental Health, Environmental Health Perspectives, Environmental Monitoring and Assessment, Environmental Pollution, Environmental Research, Environment Science: Processes and Impacts, Environmental Science & Technology, International Journal of Hygiene & Environmental Health, Journal of Environmental Quality, Journal of Environmental Science & Environmental Epidemiology, Journal of Geophysical Research - Biogeosciences (AGU), Journal of Great Lakes Research, Journal of Toxicology & Environmental Health, Libertas Academica, Marine Chemistry, Neurotoxicology, Neurotoxicology & Teratology, Phytoremediation, Plos One, Science of the Total Environment, Scientific Reports, Toxicological Sciences, Water Air & Soil Pollution, Water Environment Research