

CURRICULUM VITAE

Diana Rohlman

Environmental Health Sciences Center
Superfund Research Program
Oregon State University
Corvallis, OR 97331

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Education

PhD/Environmental and Molecular Toxicology
September 2007 – May 2013

Oregon State University
Corvallis, OR

BS/Biology
August 2003 – May 2007

Marietta College
Marietta, OH

Employment Experience

04/16 – Assistant Research Professor
Department of Environmental and Occupational Health
School of Biological Population Sciences
College of Public Health and Human Sciences
Oregon State University, Corvallis, OR

07/15 – 03/16 Outreach and Engagement Coordinator
Environmental Health Sciences Center
Superfund Research Program
Oregon State University, Corvallis, OR

06/13 – 07/15 Post-doctoral Scholar
College of Public Health and Human Sciences
Oregon State University, Corvallis, OR

09/07 – 06/13 Graduate Research Assistant
Department of Environmental and Molecular Toxicology
Oregon State University, Corvallis, OR

Other Relevant Positions

06/09 – 06/13 Outreach Coordinator
Trainee's in Environmental and Molecular Toxicology (TEAM Tox)
Department of Environmental and Molecular Toxicology
Oregon State University, Corvallis, OR

01/06 – 05/13 Undergraduate Research Assistant
Biology Department
Marietta College, Marietta, OH

Certification

Free-choice Learning
January 2014 – May 2015

Oregon State University
Corvallis, OR

Professional Memberships

- 2015 - Center for Research on Lifelong STEM Learning, Affiliate. Oregon State University
2015 – Citizen Science Association
2014 – Oregon Public Health Association, Planning Committee, Health Environments
2013 – Discover the Scientist Within Planning Committee, Oregon State University
2007 – 2008 Pacific Northwest Association of Toxicologists

Teaching

Oregon State University

Classes

- 2017 Closing the Gap: Where Science meets the Media (1 credit hour).
Honors Colloquia, HC 407
2015 Closing the Gap: Where Science meets the Media (2 credit hours).
U-Engage, ALS 199 004

Guest lectures

- 2015 Community-Based Participatory Research and Unconventional Gas Exploration
(Advanced Topics in Environmental and Occupational Health, H681)
2014 Introduction to flow cytometry (Toxicology 699)
2011 Alloantigen and transplantation (Microbiology 417/517)
2010-2015 Theory and principles of flow cytometry (Microbiology 417/517)

Scientific Outreach and Workshops

- 11/13/15 “Communicating Data: When, Why and How.” National Pesticide Information Center
Risk Assessment Workshop. Presenter. Audience: Graduate Students.
11/20/14 “Residential Environmental Health Issues and Risk Reduction Strategies”, Presenter
Academy of Lifelong Learning, Corvallis, OR
2013 – Discovering the Scientist Within. Organizer, Presenter. *Audience:* 6-8 grade, parents
Oregon State University, Corvallis, OR
2013 – Community scientific outreach and education
07/24/12 Explorations in Toxicology Workshop. Organizer, Presenter. *Audience:* K-12 educators.
06/09 – K-12 scientific outreach and education
Precollege Programs
Oregon State University, Corvallis, OR

Research Funding

Current

- 2015 – 2017 “Developing an informal environmental health education model for use in Tribal
communities”
Advancing Informal STEM Learning, Pathways Grant. National Science Foundation.
Role: Co-PI (PI – Donatuto) \$297k

Pending

- “Developing training in the Indigenous Health Indicators to improve health literacy in
Indigenous communities”
R21, Promoting Health Literacy. National Institutes of Health.
Role: PI

Outreach Funding

Oregon State University

Current

- 2015 – Passive Sampling Technologies
Open Oregon State, Oregon State University E-Campus. Role: PI. \$1500
- 2015 – Well Water Safety
Open Oregon State, Oregon State University E-Campus. Role: PI. \$3500
- 06/12 – Trainees in Environmental and Molecular Toxicology
Precollege Programs, Oregon State University. Role: PI. \$2250

Completed

- 06/12 - 06/14 TEAM Tox
E.R. Jackman Club Funding, Oregon State University. Role: Co-PI. \$3000

Awards

- 2012 Graduate Student Travel Award
- 2012 TEAM Tox Student Travel Award
- 2007– 2009 NIEHS Research Training Grant Fellow, Oregon State University
- 2003 – 2007 Beverly Enzie Ellis Scholarship, Marietta College, Marietta, OH
- 2004 – 2007 Fine Arts Talent Scholarship, Theatre Department, Marietta College, Marietta, OH

Service

Professional Service

- Panelist, “Leaders in Environmental Activism” Dr. Dave McShaffrey. LEAD 333, Marietta College, Marietta, OH [Skype]
- Planning Committee, Healthy Environment Section, Oregon Public Health Association Annual Conference (2015 – 2016)
- 2015 U.S. Environmental Protection Agency Science to Achieve Results (STAR) Fellowship Program, reviewer
- Panelist, Translating Scientific Research to Activities for Outreach and Engagement Workshop. *Audience:* Graduate students, Faculty, K-12 teachers. Sponsored by USDA-NIFA. 08/20/15
- Ask an Expert, Oregon State University Extension Service (2014 – present)
- Health and Human Services Action Team, Corvallis Sustainability Coalition (2013 – present)
- SPAN Post-doctoral representative; Student, Post-doc and Alumni Network of the Superfund Research Program, Oregon State University (2013 – 2014)
- Trainees in Environmental and Molecular Toxicology Outreach liaison (2013 – present)

Presentations

Platforms

Anderson KA, Dixon H, **Rohlman D**, Hobbie K, Scaffidi C, Waters KM, Herbstman J, Kincl L. *Mobile Device for Measuring Ambient Chemical Exposure, Location and Respiratory Health Robustness and Comparisons with Conventional Technologies*. International Society of Exposure Science. Henderson, NV. October 18-22, 2015.

Anderson KA, Kincl L, **Rohlman D**, Hobbie K, Willmarth J, Barton M. Environmental Preparedness and Resilience Empowering People: Personal Wristband Sampling Nexus. International Society of Exposure Science. Henderson, NV. October 18-22, 2015.

Rohlman D, Anderson K, Hobbie K, Willmarth J, Barton M, Kincl L. *The Nexus of Citizen Science: Aligning Community and Research Needs*. Oregon Public Health Association. Corvallis, OR. October 12-13, 2015.

Frey G, **Rohlman D**, Kile M, Harper B, Harris S, Harding A. *Reporting dietary exposures and metabolism of PAHs from tribally important foods*. Oregon Public Health Association. Corvallis, OR. October 12-13, 2015.

Rohlman D, Kincl L, Kile M, Frey G, Anderson K, Harding A, Haynes E, McClelland M, MacDonald M, Lipscomb S. *Reporting community-based participatory research results to communities: best practices and lessons learned*. NW Environmental Health Conference. Portland, OR. April 17, 2015.

Rohlman, D., Haynes, E., Anderson, K., Kincl, L., Elam, S., Paulik, B. *Engaging Rural Citizens to Answer Questions about Air Quality*. Society for Applied Anthropology Annual Meeting. Pittsburgh, PA. March 24-28, 2015.

Rohlman D, Anderson K. A., Arkin L, Kincl L. *A Community-Based Approach to Environmental Health: Developing Novel Technologies to Evaluate Air Quality and Respiratory Health*. Corvallis, OR. Oregon Public Health Association Conference Oct. 13-14, 2014

Rohlman D, Kincl L, Anderson KA. Exposure Assessment Monitoring Tools Panel. *Passive Wristband Samplers*. EHS Center Meeting; 2014 April 7-9; Los Angeles, CA.

Rohlman D., Harper B., Harding A., Harris S., Anderson K.A., Simonich S. *Evolution of a Robust Tribal-University Research Partnership to Investigate Tribal Exposures and Build Scientific Capacity*. Contemporary Northwest Tribal Health Conference. Portland, OR. March 28-29, 2014.

Rohlman D., Kincl, L., Kile, M., Anderson K.A. *Community-based EHSC Pilot Projects: Utilizing interdisciplinary approaches and community involvement to address environmental health concerns*. Environmental and Molecular Toxicology Research Day. Corvallis, OR. January 10, 2014.

Rohlman D., Funatake, C.J., Kerkvliet, N.I. *The role of IL-2 signaling in aryl hydrocarbon receptor (AhR)-mediated immunosuppression*. Pacific Northwest Association of Toxicologists. Seattle, WA, September 20-22, 2012.

Rohlman D., Pennington, J., Bradford, CS., Kerkvliet, N.I. *TCDD-mediated effects on the immunosuppressive CTLA-4 – IFN γ – IDO pathway*. Environmental and Molecular Toxicology Research Day. Corvallis, OR, January 13, 2012.

Kerkvliet N.I., **Rohlman, D.** *Induction of AHR-dependent Tregs: a novel pathway for TCDD immunotoxicity*. Annual Meeting of the Society of Toxicology. Salt Lake City, Utah, March 7-11, 2010.

Invited Webinars:

Rohlman D. *Environmental Health Literacy*. Oregon Public Health Association, Healthy Environment Section. Dec. 10, 2015

Dreyfus, M, Hawkins C, Burgess M, Heacock M, Hirsch N, Wilkinson S, Gray K, Yelton S, Haine D, **Rohlman D.** *EPA and the NIEHS Superfund Research Program: Collaborating to Meet Community*

Technical Assistance Needs at Superfund Sites. CLU-IN Seminar, EPA Office of Superfund Remediation and Technology Innovation. May 6, 2015.

Dreyfus M, **Rohlman D**, Hirsch N. *Partners in Technical Assistance Program Pilot with R10 and Oregon State University*. Superfund Community Involvement Managers Call, EPA webinar series. October 7, 2014.

Conley A, Dreyfus M, **Rohlman D**, Hirsch N. *Mercury, the community and me*. EPA Region 10 webinar series. September 29, 2014.

Posters:

Frey G, **Rohlman D**, Kile M, Harper B, Harris S, Harding A. *Reporting dietary exposures and metabolism of PAHs from traditionally smoked salmon*. Semiahmoo Environmental and Occupational Public Health Conference; 2016 January 6-8, Blaine, WA.

Santiago-Delgado L, Motorykin O, **Rohlman D**, Schrlau JE, Harper B, Harris S, Harding A, Kile ML, Simonich SLM. *Metabolism and excretion rates of parent and hydroxyl-PAHs in urine collected after consumption of traditionally smoked salmon for Native American volunteers*. Annual Meeting of the Superfund Research Program; 2015 November 18-20, San Juan, Puerto Rico.

Rohlman D, Frey G, Kile M, Harper B, Harris S, Harding A, Santiago-Delgado L, Motorykin O, Simonich SLM. *Communicating the results of dietary exposures and metabolism of PAHs from a tribally important food*. Annual Meeting of the Superfund Research Program; 2015 November 18-20, San Juan, Puerto Rico.

Rohlman D, Donatuto J, Campbell L. *Promoting environmental health education in a Native American community through the lens of First Foods*. Society of Environmental Toxicology and Chemistry; 2015 November 1-5, Salt Lake City, UT

Rohlman D, Haynes E.N., Anderson K.A., Paulik L.B., Feezel P., Kincl L.D. *Engaging rural citizen scientists to explore impacts of fracking on ambient air*. Society of Environmental Toxicology and Chemistry; 2015 November 1-5, Salt Lake City, UT.

Rohlman D, Hobbie KA, Barton M, Willmarth J, Kincl L, Anderson KA. *Development of an online platform to promote environmental public health within citizen scientists*. Society of Environmental Toxicology and Chemistry; 2015 November 1-5, Salt Lake City, UT.

Motorykin O, Santiago-Delgado L, **Rohlman D**, Schrlau JE, Harper B, Harris S, Harding A, Kile ML, Massey Simonich SL. *Metabolism and Excretion Rates of Parent and Hydroxy-PAHs in Urine Collected After Consumption of Traditionally Smoked Salmon for Native American Volunteers*. International Symposium on Polymer Analysis and Characterization; 2015 June 8-10, Houston, TX.

Rohlman D, Anderson K, Hobbie K, Willmarth J, Barton M, Kincl L. *The nexus of citizen science: Integrating community needs and interests*. EHS Center Meeting; 2015 April 13-15; Tucson, AZ

Rohlman D, Hobbie K, Barton M, Willmarth J, Kincl L, Anderson KA. *EPREP: Environmental Preparedness and Resilience Empowering People*. 2015 Citizen Science Meeting; 2015 February 11-12; San Jose, CA.

Rohlman D, Kile M, Frey G, Harding A, Harper B, Harris S, Burke M, Donatuto J, Woodward C. *Tribal-OSU SRP Partnerships for Evaluation of Chemical Exposures to Improve Community Health*. Superfund Research Program Annual Meeting; 2014 November 12-14; Berkeley, CA.

Dreyfus M, Hirsch N, **Rohlman D**, Conley A, Lynch K, Muza R, Briggs L, Fisher C, Kile ML, Stone D. *EPA's Pilot Partners in Technical Assistance Program (PTAP), Collaboration to Meet Community Technical Assistance Needs: The Black Butte Mine Superfund Site Project*. Superfund Research Program Annual Meeting; 2014 November 12-14; Berkeley, CA.

Hobbie K.A., Scott R.P., **Rohlman D.**, Kincl L., Scaffidi C., Peterson E.S., Waters K. M., Anderson K.A. *The Mobile Exposure Device: A Personal Sampling Nexus for Exposure Monitoring*. Society of Environmental Toxicology and Chemistry. Vancouver, BC Canada. November 9-13, 2014.

Paulik LB, **Rohlman D**, Donatuto J, Woodward C, Kile M, Anderson KA, Harding A. *Improving techniques for estimating butter clam (*Saxidomus gigantean*) contamination in the Salish Sea*. Fidalgo Bay Science Conference, hosted by the Samish Indian Nation; 2014 October 23; Anacortes, WA.

Rohlman D, Elam S, Paulik B, Anderson K, Haynes E, Kincl L. *Reporting air quality data to a rural Appalachian community concerned about unconventional natural gas drilling*. Partnerships for Environmental Public Health Meeting; 2014 September 22-24; Research Triangle Park, NC.

Rohlman D, Hirsch N, Lynch K, Conley A, Dreyfus M, Briggs L, Muza R, Fisher C, Kile M, Stone D. *Mercury, The Community, and Me: Increasing environmental health literacy in school-aged children using a community history of mercury mining*. Partnerships for Environmental Public Health Meeting; 2014 September 22-24; Research Triangle Park, NC.

Rohlman D, Kincl L, Anderson K, Haynes E, Elam S. A Community-Based, Inter-University Collaboration: Using Focus Group Methodology within Environmental Justice Communities to Design and Test a Mobile Exposure Device. EHS Center Meeting; 2014 April 7-9; Los Angeles, CA

Hayes E., Kincl L., Anderson K., **Rohlman D.**, Elam S., Feezel P., Kuhnell P., Hobbie K., Tidwell L., Paulik B., Donald C., Alden J., Brown, D. Impact of Unconventional Natural Gas Drilling on Air Quality in Easter Ohio: A Collaborative Supplement between the University of Cincinnati and Oregon State University. EHS Center Meeting; 2014 April 7-9; Los Angeles, CA.

Rohlman D, Arkin L, Anderson K.A., Kincl L. A Community-based EHSC Pilot Project: Using focus group methodology to improve the mobile exposure device. Environmental Health Sciences Center Poster Session; 2014 January 10; Corvallis, OR.

Rohlman D, Harper B, Harding A, Harris S, Kile M. Anderson K, Simonich S. Evolution of a Robust Tribal-University Partnership to Investigate Tribal Exposures and Build Scientific Capacity. Superfund Research Program Annual Meeting; 2013 October 14-17; Baton Rouge, Louisiana.

Rohlman D.C., Pennington J., Bradford C.S., Kerkvliet N.I. Effect of AhR activation by TCDD on the immunosuppressive CTLA-4 – IFN γ –IDO pathway. American Association of Immunologists; 2012 May 3-8; Boston, MA.

Phillips J, Kopparapu P, Punj S, Jang HS, **Rohlman D**, Koch D, O'Donnell E, Kerkvliet N, Kolluri SK. Characterization of novel AhR ligands and evaluation of their effects in cancer and autoimmune disorders. Center for Genome Research and Biocomputing Conference; 2011 September 18-19; Corvallis, OR.

Rohlman DC, Pham D, Steppan LB, Kerkvliet NI. *Ah receptor (AhR)-dependent changes in gene transcription during naive CD4⁺ T-cell differentiation*. American Association of Immunologists; 2009 May 8-12; Seattle, WA.

Professional Development

"2014 Health Impact Assessment Training: A Framework for Considering Health in All Policies." Upstream Public Health. Keizer Heritage Center, Keizer, OR 97303. (2014)

"Post-doctoral Scholar Higher Education Teacher Preparation." Center for Learning and Teaching, Oregon State University, Corvallis, OR 97331. (2014)

"Tox 607 Seminar: Preparing Effective Outreach Modules for Middle School Students." Oregon State University, Corvallis, OR 97331. (2011)

Peer-Reviewed Publications

Rohlman, D. Frey, G., Kile, M.L., Harper, B., Harris, S., Burke, M., Motorykin, O., Simonich, S.L.M., Harding, A.K. Communicating results of a dietary exposure study following consumption of traditionally smoked salmon. *In preparation*.

Ehrlich, A., Pennington, J., Wang, X., **Rohlman, D.**, Punj, S. Loehr, C., Newman, M., Kolluri S., Kerkvliet, N. 2015. Activation of the Aryl Hydrocarbon Receptor by 10-Cl-BBQ Prevents Insulinitis and Effector T Cell Development Independently of Foxp3⁺ Regulatory T Cells in Nonobese Diabetic Mice. *Journal of Immunology*, 195(12): doi:10.4049/jimmunol.1501789

O'Connell, S.G., Carozza S., Kerkvliet N.I., **Rohlman, D.**, Pennington J., Anderson K.A. Exploring silicone implants as in vivo biomonitors of exposure and potential body burden sinks for lipophilic toxicants. *Environment International*, 85: 182-188.

Scaffidi, C., Kincl, L., **Rohlman, D.**, and Anderson, K. 2015. Linking the physical with the perceptual: Health and exposure monitoring with cyber-physical questionnaire. *IEEE Conference on Digital System Design*.

Rohlman, D., Syron L., Arkin L., Anderson, K.A., Kincl L. 2015. A community-based approach to designing a mobile exposure device for measuring ambient air exposure and effects on respiratory health. *Environmental Justice*, 8(4): 111-116.

Motorykin, O., Santiago-Delgado, L., **Rohlman, D.**, Schrlau, J.E., Harper, B., Harris, S., Harding A., Kile, M.L., Simonich, S.L.M. 2015. Metabolism and Excretion Rates of Parent and Hydroxy-PAHs in Urine Collected after Consumption of Traditionally Smoked Salmon for Native American Volunteers. *Science of the Total Environment*, 514: 170-177.

Punj, S., Kopparapu, P., Jang, H.S., Phillips, J.L., Pennington, J., **Rohlman, D.**, O'Donnell, E., Iversen, P.L., Kolluri, S.K., Kerkvliet, N.I. 2014. Benzimidazoisoquinolines: A new class of rapidly metabolized aryl hydrocarbon receptor (AhR) ligands that induce AhR-dependent Tregs and prevent murine graft-versus-host disease. *PLOS One*, doi: 10.1371/journal.pone.0088726

Rohlman, D., Pennington, J. Punj, S., Bradford, C.S., Kerkvliet, N.I. 2013. TCDD-mediated effects on the immunosuppressive CTLA-4 – IFN{gamma}– IDO pathway. *Toxicological Sciences*, **135**(1) 81-90.

Rohlman, D., Pham, D., Yu, Z., Stepan, L.B., Kerkvliet, N.I. 2012. Aryl hydrocarbon receptor (AhR)-mediated perturbation during early CD4⁺ T-cell differentiation. *Frontiers in Immunology*, 3:doi:10.3389/fimmu.2012.00223

Other products

K-12 Educational Resources

- Mercury, My Community and Me (K-8 supplemental curricula)
<http://superfund.oregonstate.edu/mercury-community-and-me-0>

Outreach videos

- Careers in Environmental Health (<https://youtu.be/7bR6c1etYNk>)
- The Black Butte Mine (https://youtu.be/JX_40CZ5fgk)
- What is a passive wristband sampler? (<https://youtu.be/Kmw7BCvcck8>)
- Analyzing the passive wristband sampler (<https://youtu.be/ktuaHKdEJSE>)

In collaboration with Open Oregon State

- Flow Cytometry: How Does it Work (http://unsolvedmysteries.oregonstate.edu/flow_06)
- Microarray: How Does it Work (http://unsolvedmysteries.oregonstate.edu/microarray_07)