



## Publications- the Environmental Pollutant Laboratory UNN

### Peer reviewed publications:

- Hansen, S., Xu., S., Huber, S., Álvarez, M.V., Odland, J.Ø. « *Profile of per- and polyfluoroalkyl substances, source appointment, and determinants in Argentinean postpartum women*” The Science of The Total Environment 915(Pt 3):170096; DOI: [10.1016/j.scitotenv.2024.170096](https://doi.org/10.1016/j.scitotenv.2024.170096)
- Averina, M., Huber, S., Almås, B., Brox, J., Jacobsen, B.K., Furberg, A.-S., Grimnes, G. “*Early menarche and other endocrine disrupting effects of per- and polyfluoroalkyl substances (PFAS) in adolescents from Northern Norway: the Fit Futures study.*” Environmental Research 2023; Volume 243, 117703 <https://doi.org/10.1016/j.envres.2023.117703>
- Bolann, B, Huber, S., Averina, M., Eggesbø, M., Hokstad, I., Brox, J., Ørebech, P., Monsen, A.-L. “*Should we eat more fish – or less?*” Tidsskrift for den norske legeförening 2023, Volum 143, Hefte 11, <https://doi.org/10.4045/tidsskr.23.0235>
- Charles, D., Berg, V., Nøst, T.H., Wilsgaard, T., Bergdahl, I.A., Huber, S., Ayotte, P., Averina, M., Sandanger, T. M., Rylander, C. “*Polybrominated diphenyl ethers in type 2 diabetes mellitus cases and controls: Repeated measurements prior to and after diagnosis*” International Journal of Hygiene and Environmental Health 2023; Volume 249, 114148. <https://doi.org/10.1016/j.ijheh.2023.114148>
- Götsch, A., Averina, M., Brox, J., Huber, S. “*Investigation of background contribution from different solvent brands used for sample preparation and analysis of persistent organic pollutants*” Organohalogen compounds 2023, 84
- Mwapasa, M., Huber, S., Chakhame, B.M., Maluwa, A., Odland, M.L., Rollin, H., Choko, A., Xu., S., Odland, J.Ø. “*Serum Concentrations of Selected Poly- and Perfluoroalkyl Substances (PFASs) in Pregnant Women and Associations with Birth Outcomes. A Cross-Sectional Study from Southern Malawi*”, International Journal of Environmental Research and Public Health 2023, Volume 20-(3). <https://doi.org/10.3390/ijerph20031689>
- Mwapasa, M., Huber, S., Chakhame, B.M., Maluwa, A., Odland, M.L., Ndhlovu, V., Rollin, H., Xu., S., Odland, J.Ø. “*Predictors of Maternal Serum Concentrations for Selected Persistent Organic Pollutants (POPs) in Pregnant Women and Associations with Birth Outcomes: A Cross-Sectional Study from Southern Malawi*”, International Journal of Environmental Research and Public Health 2023, Volume 20-(7). <https://doi.org/10.3390/ijerph20075289>
- Averina, M., Monsen, A.-L. B., Bolann, B.J., Brox, J., Eggesbø, M., Hokstad, I., Huber, S., Ørebech, P. “*High level of heavy metals in crab meat.*” Tidsskrift for Den norske legeförening 2022; Volume 163, 107175 <https://doi.org/10.4045/tidsskr.22.0317>
- Bresson, S. E., Isom, S., Jensen, E.T., Huber, S., Oulhote, Y., Rigdon, J., Lovato, J., Liese, A.D., Pihoker, C., Dabelea, D., Ehrlich, S., Ruzzin, J.N.M. “*Associations between persistent organic pollutants and type 1 diabetes in youth.*” Environment International 2022; Volume 163, 107175 <https://doi.org/10.1016/j.envint.2022.107175>



- Varsi, K., Huber, S., Averina, M., Brox, J., Monsen, A.-L. B. "Quantitation of linear and branched perfluoroalkane sulfonic acids (PFASs) in women and infants during pregnancy and lactation." *Environmental Research* 2022; Volume 160, 107065 <https://doi.org/10.1016/j.envint.2021.107065>
- Varsi, K., Torsvik, I. K., Huber, S., Averina, M., Brox, J., Monsen, A.-L. B. "Impaired gross motor development in infants with higher PFAS concentrations." *Environmental Research* 2021; Volume 204. Part D, 112392 <https://doi.org/10.1016/j.envres.2021.112392>
- Xu, S., Hansen, S., Rautio, A., Riitta-Järvelin, M., Abass, K., Rysä, J., Palaniswamy, S., Huber, S., Grimalt, J.O., Dumas, P., Odland, J.Ø. "Monitoring temporal trends of dioxins, organochlorine pesticides and chlorinated paraffins in pooled serum samples collected from Northern Norwegian women: The MISA cohort study." *Environmental Research* 2021; Volume 204, Part A 111980 <https://doi.org/10.1016/j.envres.2021.111980>
- Charles, D., Berg, V., Nøst, T.H., Bergdahl, I.A., Huber, S., Ayotte, P., Wilsgaard, T., Averina, M., Sandanger, T. M., Rylander, C. "Longitudinal changes in concentrations of persistent organic pollutants (1986–2016) and their associations with type 2 diabetes mellitus" *Environmental Research* 2021; Volume 204, Part B 112129 <https://doi.org/10.1016/j.envres.2021.112129>
- Bjørke-Monsen, A.-L., Huber, S., Averina, M., Brox, J., Bolann, B.J. «Tran inneholder også miljøgifter» *Tidsskrift for Den norske legeförening* 2021; doi: 10.4045/tidsskr.20.1037
- Berg, V., Charles, D., Bergdahl, I.A., Nøst, T.H., Sandanger, T. M., Tornevi, A., Huber, S., Fuskevåg, O.M., Rylander, C. "Pre- and post-diagnostic blood profiles of chlorinated persistent organic pollutants and metabolic markers in type 2 diabetes mellitus cases and controls" *Environmental Research* 2021; Volume 195:110846. s. 1-7 <https://doi.org/10.1016/j.envres.2021.110846>
- Dartey E., Ellingsen D.E., Berlinger B., Thomassen Y., Odland J.Ø., Brox J., Nartey V.K., Yeboah F.A., Huber S., "Per— and Polyfluoroalkyl Substances in Human Serum Samples of Selected Populations from Ghana"; *International Journal of Environmental Research and Public Health (IJERPH)* 2021 ;Volume 18.(4) <https://doi.org/10.3390/ijerph18041581>
- Averina, M., Brox, J., Huber, S., Furberg, A.S. "Exposure to perfluoroalkyl substances (PFAS) and dyslipidemia, hypertension and obesity in adolescents. The Fit Futures study" *Environmental Research* 2021; Volume 195 <https://doi.org/10.1016/j.envres.2021.110740>
- Bjørke-Monsen, A.-L., Varsi, K., Brox, J., Averina, M., Huber, S., "Perfluoroalkyl substances (PFAS) and mercury in never-pregnant women of fertile age: association with fish consumption and unfavorable lipid profile.", *BMJ Nutrition, Prevention and Health* 2020 <http://dx.doi.org/10.1136/bmjnph-2020-000131>
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- Charles, D., Berg, V., Nøst, T.H., Huber, S., Sandanger, T. M., Rylander, C. "Pre- and post-diagnostic blood profiles of perfluoroalkyl acids in Type 2 Diabetes Mellitus cases and controls", *Environmental International* 2020, 145. <https://doi.org/10.1016/j.envint.2020.106095>
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- Chiudzu, G.M., Choko, A., Maluwa, A., Huber, S., Odland, J.Ø. "Maternal Serum Concentrations of Selenium, Copper and Zinc during Pregnancy are associated with Risk of Spontaneous Preterm Birth: A case-control study from Malawi" *Journal of Pregnancy* 2020, Volume 2020 <https://doi.org/10.1155/2020/9435972>
- Samuelsen, Ø., Åstrand, O. A. H., Frøhlich, C., Heikal, A., Skagseth, S., Carlsen, T. J. O., Leiros, H.-K.S., Bayer, A., Schnaars, C., Kildahl-Andersen, G., Lauksund, S., Finke, S., Huber, S., Gjøen, T., Andresen, A.M.S., Økstad, O.A., Rongved, P. "ZN148 Is a Modular Synthetic Metallo-beta-Lactamase Inhibitor That Reverses Carbapenem Resistance in Gram-Negative Pathogens In Vivo." *Antimicrobial Agents and Chemotherapy* 2020 Volume 64. (6), <https://doi.org/10.1128/AAC.02415-19>
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- Bolann, B.J., Huber, S., Ruzzin, J., Brox, J., Huitfeldt, H., Monsen, A.L.B. «Er miljøgifter i norsk kosthold skadelig for barn?» *Tidsskrift for Den norske legeforening* 2017; Volume 137.(4) s. 295-297 doi:10.4045/tidsskr.16.0978
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Ullah, S., Huber, S., Bignert, A., Berger, U. ”Temporal trends of perfluoroalkane sulfonic acids and their sulfonamide-based precursors in herring from the Swedish west coast 1991–2011 including isomer-specific considerations”, *Environment International* 2014, 65:63-72  
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## Reports:

Odland, J.Ø., Xu, S., Huber, S., Dumas, P. “*Persistent Organic Pollutants (POPs) in Human Samples from The MISA study (Northern Norway).*” Norwegian Environment Agency 2021  
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## Master thesis:

Tetyana Voloshyna “*A study on the interactions between perfluorosulfonic acids and P-glycoprotein in the Caco-2 cell line model*”, Master thesis in Biomedicine (MBI-3911), UiT The Arctic University of Norway 2021; supervisor Erik Dietrichs, Aina Westrheim Ravna, Ole-Martin Fuskevåg and Sandra Huber

Sofie Vibe “*A systematic review of association between organic environmental pollutants and testicular cancer*”, Master thesis in Medicine (MED-3950), UiT The Arctic University of Norway 2020; supervisor Maria Averina and Sandra Huber

Jorunn Berntzen «*Er det en kausal sammenheng mellom fedme og diabetes type 2 og miljøgifter?*» Master thesis in Medicine (MED-3950), UiT The Arctic University of Norway 2018; supervisor Maria Averina and Mikhail Sovershæv