



Publikasjonsliste Miljøgiftlaboratoriet UNN

Fagfelleurderte publikasjoner:

- 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: <https://doi.org/10.1016/j.envres.2023.117703>
- 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. “*Bør vi spise mer fisk - eller mindre?*” 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. “*Høyt nivå av tungmetaller i krabbe.*” 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 legeforening 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>
- Brox, J., Averina, M., Huber, S., "Kan miljøgifter true oss som art?" Tidsskrift for Den norske legeforening 2020; Volum 10. doi: 10.4045/tidsskr.20.0392
- 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>
- Frøhlich, C., Sørum, V., Huber, S., Samuelsen, Ø., Berglund, F., Kristiansson, E., Kotsakis, S., Marathe, N.P., Larsson, D.G.J., Leiros, H.-K.S. "Structural and biochemical characterization of the environmental metallo-β-lactamases MYO-1, ECV-1 and SHD-1", Journal of Antimicrobial Chemotherapy 2020, volum 75, 2555-2563; <https://doi.org/10.1093/jac/dkaa175>



- Chiudzu, G.M., Maluwa, A., Tomoko, T., Choko, A., Huber, S., Fuskevåg, O.M., Odland, J.Ø. "Evaluation Of Serum Concentrations Of Copper, Ferritin, Selenium, Zinc And Vitamin D At Birth In Women With Spontaneous Preterm Birth: A Case-Control Study In A Low Resource Country." *Journal of Reproductive Medicine Gynaecology & Obstetrics* 2020; Volume 5. (055) DOI:[10.24966/RMGO-2574/100055](https://doi.org/10.24966/RMGO-2574/100055)
- 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>
- Huber, S., Averina, M., Brox, J. "Automated sample preparation and GC-API-MS/MS as a powerful tool for analysis of legacy POPs in human serum and plasma." *Analytical Methods* 2020; Volume 7. (12) s. 912-929 <https://doi.org/10.1039/C9AY02400J>
- Averina, M., Hervig, T., Huber, S., Kjær, M., Kristoffersen, E. K., Bolann, B.J. "Environmental pollutants in blood donors: The multicentre Norwegian donor study." *Transfusion Medicine* 2020, 1-9; <https://doi.org/10.1111/tme.12662>
- Averina, M., Brox, J., Huber, S., Furberg, A.S., Sørensen, M. "Serum perfluoroalkyl substances (PFAS) and risk of various allergies in adolescents. The Tromsø study Fit Futures in Northern Norway." *Environmental Research* 2019; Volume 169. s. 114-121 <https://doi.org/10.1016/j.envres.2018.11.005>
- Averina, M., Brox, J., Huber, S., Furberg, A.S. "Perfluoroalkyl substances in adolescents in northern Norway: Lifestyle and dietary predictors. The Tromsø study, Fit Futures 1." *Environment International* 2018; Volume 114. s. 123-130 <https://doi.org/10.1016/j.envint.2018.02.031>
- 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
- Bolann, B.J., Huber, S., Ruzzin, J., Brox, J., Huitfeldt, H., Monsen, A.L.B. «Miljøgifter i kosten handler om mer enn fisk.» *Tidsskrift for Den norske legeforening* 2017; Volume 137. (14-15) s. 973-974 doi:10.4045/tidsskr.17.0521
- Huber S., Remberger M., Kaj L., Schlabach M., Jörundsdóttir O.H., Vester J., Arnórsson M., Mortensen I., Schwartzon R., Dam M. "A first screening and risk assessment of pharmaceuticals and additives in personal care products in waste water, sludge, recipient water and sediment from Faroe Islands, Iceland and Greenland." *Science of the Total Environment* 562 (2016) 13 – 25. <https://doi.org/10.1016/j.scitotenv.2016.03.063>
- Huber S., Brox, J. „An automated high-throughput SPE micro-elution method for perfluoroalkyl substances in human serum." *Analytical and Bioanalytical Chemistry* 2015; Volume 407.(13) s. 3751-3761. <https://doi.org/10.1007/s00216-015-8601-x>



Berg, V., Nøst, T.H., Huber, S., Rylander, C., Hansen, S., Veyhe, A.S., Fuskevåg, O.M., Odland, J.Ø., Sandanger, T.M. „Maternal serum concentrations of per- and polyfluoroalkyl substances and their predictors in years with reduced production and use.“ Environment International 2014, 69:58 – 66. <https://doi.org/10.1016/j.envint.2014.04.010>

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
<https://doi.org/10.1016/j.envint.2014.01.005>

Rapporter:

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 22s.
<https://www.miljodirektoratet.no/publikasjoner/2021/mars-2021/persistent-organic-pollutants-pops-in-human-samples-from-the-misa-study-northern-norway/>

Mastergradsoppgaver ved UiT

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; veiledere Erik Dietrichs, Aina Westrheim Ravna, Ole-Martin Fuskevåg og 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; veiledere Maria Averina og 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; veiledere Maria Averina og Mikhail Sovershæv