



Publications- the Environmental Pollutant Laboratory UNN

Peer reviewed publications:

- 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*



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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>
- Frøhlich, C., Sørnum, 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)
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- 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>

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

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

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