

## Publications- the Environmental Pollutant Laboratory UNN

### Peer reviewed publications:

- Oyeyemi, S-O., Averina, A., Huber, S., Charles, D., Furberg, A.S., Yigzaw, K.Y., Wilsgaard, T., Nielsen, C.S., Grimnes, G. *"Per- and polyfluoroalkyl substances and associated proteomic biomarker patterns of immuno-suppression and cell-proliferation in an adolescent population from Northern Norway: The Fit Futures Study"* Environmental Research 2025, Vol 282, 122096, <https://doi.org/10.1016/j.envres.2025.122096>
- Berg, V., Charles, D., Huber, S., Nøst, T.H., Sandanger, T., Averina, M., Bergdahl, I., Nilsen, M., Wilsgaard, T., Rylander, C. *"Multiple repeated pre- and post- diagnostic measurements of perfluoroalkyl substances in type 2 diabetes mellitus cases compared to controls: The Tromsø Study (1986-2016)"*, Scientific Reports 2025, 15, 22026, <https://doi.org/10.1038/s41598-025-05422-1>
- Ranjitkar, S., Kvestad, I., Chandyo, R.K., Strand, T.A., Bakken, K.S., Ulak, M., Huber, S., Averina, M., Shrestha M., Hysing, M. *"The association between prenatal maternal Selenium concentration and neurodevelopment in early childhood, results from a mother-child cohort study"*, Journal of Nutrition 2025, Vol 155:6, <https://doi.org/10.1016/j.tjnut.2025.04.005>
- Coêlho, A.C.M.F., Charles, D., Nøst, T.H., Cioni, L., Huber, S., Herzke, D., Rylander, C., Berg, V., Sandanger, T. *"Temporal and cross-sectional associations of serum per- and polyfluoroalkyl substances (PFAS) and lipids from 1986 to 2016 -The Tromsø Study"*, Environment International 2025, Vol 199, 109508, <https://doi.org/10.1016/j.envint.2025.109508>
- Arnemo, J.M., Averina, M., Bjørke-Monsen, A.L., Bolann, B.J., Brox, J., Eggesbø, M., Hokstad, I., Huber, S. *"Lead from ammunition harmful to public health"* Tidsskrift for den norske legeforening 2025, Volum 145, <https://doi.org/10.4045/tidsskr.25.0042>
- Johnsen, M., Skeie, G., Braaten, T., Abel, M.H., Huber, S., Kjellevoll, M., Evensen, E., Rayman, M., Hansen, S. *"Inadequate iodine status among women of childbearing age in Northern Norway: a cross-sectional study"* Food and Nutrition Research 2025, Vol 69 <https://doi.org/10.29219/fnr.v69.10802>
- Bjørke-Monsen, A.L., Holstad, K., Huber, S., Averina, M., Bolann, B.J., Brox, J. *"PFAS exposure is associated with an unfavourable metabolic profile in infants six months of age"* Environment International 2024; Volume 193 <https://doi.org/10.1016/j.envint.2024.109121>
- Mwapasa, M., Xu, S., Chakhame, B.M., Maluwa, Rollin, H., A., Choko, A., Huber, S., Odland, J.Ø. *"Concentrations of potentially toxic metals and trace elements in pregnant women and association with birth outcomes: A cross-sectional study in Malawi"*, POLS Global Public Health 2024, Volume 4:11. <https://doi.org/10.1371/journal.pgph.0003521>
- Averina M., Huber S., Bjørke-Monsen A.L., Eggesbø, M., Sabaredzovic A., Bolann B.J. *"Alarmingly high levels of environmental pollutants in Norwegian children"* Tidsskrift for den norske legeforening 2024, Volum 144, Hefte 12 DOI: [10.4045/tidsskr.24.0423](https://doi.org/10.4045/tidsskr.24.0423)
- Bolann, B.J., Bjørke-Monsen, A.L., Averina, M., Brox, J., Eggesbø, M., Hokstad, I., Huber, S. *"Hazardous substances going astray"* Tidsskrift for den norske legeforening 2024, Volum 144, Hefte 11 DOI: <https://doi.org/10.4045/tidsskr.24.0295>



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- Huber, S., Michel, J., Reijnen, M., Averina, M., Bolann, B.J., Odland, J.Ø., Hansen, S., Brox, J. *"A Fast-Forward Dilute-and-Shoot Multielement Method for Analysis of 33 Elements in Human Whole Blood, Serum, and Urine by Inductively Coupled Plasma Mass Spectrometry: A Streamlined Approach for Clinical Diagnostic and Biomonitoring"* Journal of Analytical Methods in Chemistry 2024, Volum 1, <https://doi.org/10.1155/2024/9944995>
- 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)
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- 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 legeforening 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
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- 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 legeforening 2022; Volume 163, 107175 <https://doi.org/10.4045/tidsskr.22.0317>



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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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## 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:

- Ole Fjose and Håkon Bjørge Nilsen Gårseth «Mercury exposure in pregnant women in Bhaktapur, Nepal and health outcomes in infants”, Master thesis in Medicine (MED-3950), UiT The Arctic University of Norway 2025; supervisors Maria Averina, Tor A. Strand and Sandra Huber
- Kine Pinstrup “Per- and Polyfluoroalkyl Substances (PFAS) and the Immune System – The link between persistent forever chemicals and altered immune function”, Master thesis in Medicine (MED-3950), UiT The Arctic University of Norway 2025; supervisors Maria Averina and Oyeyemi, S-O.
- 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; supervisors 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; supervisors 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; supervisors Maria Averina and Mikhail Sovershæv