

Vetenskapliga publikationer från POPUP-kohorten

Gyllenhammar I, Aune M, Fridén U, Cantillana T, Bignert A, Lignell S, Glynn A. 2021. Are temporal trends of some persistent organochlorine and organobromine compounds in Swedish breast milk slowing down? *Environ Res* 197:111117.

<https://doi.org/10.1016/j.envres.2021.111117>

Kippler M, Gyllenhammar I, Glynn A, Levi M, Lignell S, Berglund M. 2021. Total mercury in hair as biomarker for methylmercury exposure among women in central Sweden- a 23 year long temporal trend study. *Environ Pollut* 268(Pt A):115712.

<https://doi.org/10.1016/j.envpol.2020.115712>

Miaz LT, Plassmann MM, Gyllenhammar I, Bignert A, Sandblom O, Lignell S, Glynn A, Benskin JP. 2020. Temporal trends of suspect- and target-per/polyfluoroalkyl substances (PFAS), extractable organic fluorine (EOF) and total fluorine (TF) in pooled serum from first-time mothers in Uppsala, Sweden, 1996-2017. *Environ Sci Process Impacts* 22(4):1071-1083.

<https://doi.org/10.1039/C9EM00502A>

Gyllenhammar I, Benskin JP, Sandblom O, Berger U, Ahrens L, Lignell S, Wiberg K, Glynn A. 2019. Perfluoroalkyl Acids (PFAAs) in Children's Serum and Contribution from PFAA-Contaminated Drinking Water. *Environ Sci Technol* 53(19):11447-11457

<https://doi.org/10.1021/acs.est.9b01746>

Gyllenhammar I, Benskin JP, Sandblom O, Berger U, Ahrens L, Lignell S, Wiberg K, Glynn A. 2018. Perfluoroalkyl Acids (PFAAs) in Serum from 2-4-Month-Old Infants: Influence of Maternal Serum Concentration, Gestational Age, Breast-Feeding, and Contaminated Drinking Water. *Environ Sci Technol* 52(12):7101-7110

<https://doi.org/10.1021/acs.est.8b00770>

Gyllenhammar I, Diderholm B, Gustafsson J, Berger U, Ridefelt P, Benskin JP, Lignell S, Lampa E, Glynn A. 2018. Perfluoroalkyl acid levels in first-time mothers in relation to offspring weight gain and growth. *Environ Int* 111, 191-199.

<https://doi.org/10.1016/j.envint.2017.12.002>

Gyllenhammar I, Glynn A, Jönsson BA, Lindh CH, Darnerud PO, Svensson K, Lignell S. 2017. Diverging temporal trends of human exposure to bisphenols and plastizisers, such as phthalates, caused by substitution of legacy EDCs? *Environ Res* 153, 48-54.

<https://doi.org/10.1016/j.envres.2016.11.012>

Lignell S, Aune M, Darnerud PO, Stridsberg M, Hanberg A, Larsson SC, Glynn A. 2016. Maternal body burdens of PCDD/Fs and PBDEs are associated with maternal serum levels of thyroid hormones in early pregnancy: a cross-sectional study. *Environ Health* 15:55.

<https://doi.org/10.1186/s12940-016-0139-7>

Weiss J, Lignell S, Darnerud PO, Kotova N. 2016. Human biomonitoring of environmental contaminants – examples offering tools towards safe food in Sweden. *Eur J Nutr Food Safety* 6, 132-147.

<https://doi.org/10.9734/EJNFS/2016/20212>

Sahlström LM, Sellström U, de Wit CA, Lignell S, Darnerud PO. 2015. Estimated intakes of brominated flame retardants via diet and dust compared to internal concentrations in a Swedish mother-toddler cohort. *Int J Hyg Environ Health* 218(4), 422-432.

<https://doi.org/10.1016/j.ijheh.2015.03.011>

Gebbink WA, Glynn A, Berger U. 2015. Temporal changes (1997-2012) of perfluoroalkyl acids and selected precursors (including isomers) in Swedish human serum. *Environ Pollut* 199, 166-173.

<https://doi.org/10.1016/j.ijheh.2015.03.011>

Gyllenhammar I, Berger U, Sundström M, McCleaf P, Eurén K, Eriksson S, Ahlgren S, Lignell S, Aune M, Kotova N, Glynn A. 2015. Influence of contaminated drinking water on perfluoroalkyl acid levels in human serum-A case study from Uppsala, Sweden. *Environ Res* 140, 673-683.

<https://doi.org/10.1016/j.envres.2015.05.019>

Darnerud PO, Lignell S, Aune M, Isaksson M, Cantillana T2, Redeby J, Glynn A. 2015. Time trends of polybrominated diphenylether (PBDE) congeners in serum of Swedish mothers and comparisons to breast milk data. *Environ Res* 138, 352-360.

<https://doi.org/10.1016/j.envres.2015.02.031>

Liu Y, Pereira AS, Beeson S, Vestergren R, Berger U, Olsen GW, Glynn A, Martin JW. 2015. Temporal trends of perfluorooctanesulfonate isomer and enantiomer patterns in archived Swedish and American serum samples. *Environ Int* 75, 215-222.

<https://doi.org/10.1016/j.envint.2014.11.014>

Sahlström LM, Sellström U, de Wit CA, Lignell S, Darnerud PO. 2015. Feasibility study of feces for noninvasive biomonitoring of brominated flame retardants in toddlers. *Environ Sci Technol* 49(1), 606-615.

<https://doi.org/10.1021/es504708c>

Lignell S. 2014. Persistent organic pollutants in Swedish first-time mothers and effects on infant health. Doktorsavhandling från Karolinska institutet.

<http://publications.ki.se/xmlui/handle/10616/41748>

Sahlström LM, Sellström U, de Wit CA, Lignell S, Darnerud PO. 2014. Brominated flame retardants in matched serum samples from Swedish first-time mothers and their toddlers. *Environ Sci Technol* 48(13), 7584-7592.

<https://doi.org/10.1021/es501139d>

Gyllenhammar I, Tröger R, Glynn A, Rosén J, Hellenäs KE, Lignell S. 2014. Serum levels of unconjugated bisphenol A are below 0.2ng/ml in Swedish nursing women when contamination is minimized. *Environ Int* 64:56-60.

<https://doi.org/10.1016/j.envint.2013.12.003>

Verner MA, McDoughall R, Glynn A, Andersen ME, Clewell HJ, Longnecker MP. 2013. Is the relationship between prenatal exposure to PCB-153 and decreased birth weight attributed to pharmacokinetics? *Environ Health Perspect*, 121, 1219-1224.
<https://doi.org/10.1289/ehp.1206457>

Lignell S, Aune M, Darnerud PO, Hanberg A, Larsson SC, Glynn A. 2013. Prenatal exposure to polychlorinated biphenyls (PCBs) and polybrominated diphenyl ethers (PBDEs) may influence birth weight among infants in a Swedish cohort with background exposure: a cross-sectional study. *Environ Health* 12:44.
<https://doi.org/10.1186/1476-069x-12-44>

Ljung Björklund K, Vahter M, Palm B, Grandér M, Lignell S, Berglund M. 2012. Metals and trace element concentrations in breast milk of first time healthy mothers: a biological monitoring study. *Environ Health* 11, 92.
<https://doi.org/10.1186/1476-069x-11-92>

Gyllenhammar I, Glynn A, Darnerud PO, Lignell S, van Delft R, Aune M. 2012. 4-Nonylphenol and bisphenol A in Swedish food and exposure in Swedish nursing women. *Environ Int* 43, 21-28.
<https://doi.org/10.1016/j.envint.2012.02.010>

Glynn A, Berger U, Bignert A, Ullah S, Aune M, Lignell S, Darnerud PO. 2012. Perfluorinated alkyl acids in blood serum from primiparous women in Sweden: serial sampling during pregnancy and nursing, and temporal trends 1996-2010. *Environ Sci Technol* 46(16), 9071-9079.
<https://doi.org/10.1021/es301168c>

Björklund JA, Sellström U, de Wit CA, Aune M, Lignell S, Darnerud PO. 2012. Comparisons of polybrominated diphenyl ether and hexabromocyclododecane concentrations in dust collected with two sampling methods and matched breast milk samples. *Indoor Air* 22(4), 279-288.
<https://doi.org/10.1111/j.1600-0668.2011.00765.x>

Lignell S, Aune M, Darnerud PO, Soeria-Atmadja D, Hanberg A, Larsson S, Glynn A. 2011. Large variation in breast milk levels of organohalogenated compounds is dependent on mother's age, changes in body composition and exposures early in life. *J Environ Monit* 13, 1607-1616.
<https://doi.org/10.1039/c1em10151j>

Glynn A, Larsdotter M, Aune M, Darnerud PO, Bjerselius R, Bergman A. 2011. Changes in serum concentrations of polychlorinated biphenyls (PCBs), hydroxylated PCB metabolites and pentachlorophenol during pregnancy. *Chemosphere* 83, 144-151.
<https://doi.org/10.1016/j.chemosphere.2010.12.050>

Glynn A, Lignell S, Aune M, Darnerud PO, Törnkvist A. 2011. Temporal trends of organohalogen compounds in mother's milk from Sweden. In: Loganathan BG and Lam PKS, editors. *Global contamination trends of persistent organic chemicals*. CRC Press. p. 355-380.

Glynn A, Lignell S, Darnerud PO, Aune M, Halldin Ankarberg E, Bergdahl IA, Barregård L, Bensryd I. 2011. Regional differences in levels of chlorinated and brominated pollutants in mother's milk from primiparous women in Sweden. *Environ Int* 37(1), 71-79.
<https://doi.org/10.1016/j.envint.2010.07.003>

Darnerud PO, Lignell S, Glynn A, Aune M, Törnkvist A, Stridsberg M. 2010. POP levels in breast milk and maternal serum and thyroid hormone levels in mother-child pairs from Uppsala, Sweden. *Environ Int* 36, 180-187.

<https://doi.org/10.1016/j.envint.2009.11.001>

Bergkvist C, Lignell S, Sand S, Aune M, Persson M, Håkansson H, Berglund M. 2010. A probabilistic approach for estimating infant exposure to environmental pollutants in human breast milk. *J Environ Monit* 12(5): 1029-1036.

<https://doi.org/10.1039/b914504d>

Lignell S, Aune M, Darnerud PO, Cnattingius S, Glynn A. 2009. Persistent organochlorine and organobromine compounds on mother's milk from Sweden 1996-2006: Compound-specific temporal trends. *Environ Res*, 109, 760-767.

<https://doi.org/10.1016/j.envres.2009.04.011>

Glynn A, Thuvander A, Aune M, Johannisson A, Darnerud PO, Ronquist G, Cnattingius S. 2008. Immune cell counts and risks of respiratory infections among infants exposed pre- and postnatally to organochlorine compounds: a prospective study. *Environ Health*, 7:62.

<https://doi.org/10.1186/1476-069x-7-62>

Lignell S, Darnerud PO, Aune M, Cnattingius S, Hajslova J, Setkova J, Glynn A. 2008. Temporal trends of synthetic musk compounds in mother's milk and associations with personal use of perfumed products. *Environ Sci Technol* 42(17):6743-6748.

<https://doi.org/10.1021/es800626n>

Kärman A, Ericson I, van Bavel B, Darnerud PO, Aune M, Glynn A, Lignell S, Lindström G. 2007. Exposure of perfluorinated chemicals through lactation: levels of matched human milk and serum and a temporal trend, 1996-2004, in Sweden. *Environ Health Perspect* 115, 226-230.

<https://doi.org/10.1289/ehp.9491>

Glynn A, Aune M, Darnerud PO, Cnattingius S, Bjerselius R, Becker W, Lignell S. 2007. Determinants of serum concentrations of organochlorine compounds in Swedish pregnant women: across sectional study. *Environmental Health* 6, 1-14.

<https://doi.org/10.1186/1476-069x-6-2>

Lind Y, Darnerud PO, Atuma S, Aune M, Becker W, Bjerselius R, Cnattingius S, Glynn A. 2003. Polybrominated diphenyl ethers in breast milk from Uppsala County, Sweden. *Environ Res* 93, 186-194.

[https://doi.org/10.1016/s0013-9351\(03\)00049-5](https://doi.org/10.1016/s0013-9351(03)00049-5)

Ask Björnberg K, Vahter M, Petersson-Grawé K, Glynn A, Cnattingius S, Darnerud PO, Atuma S, Aune M, Becker W, Berglund M. 2003. Methylmercury and inorganic mercury in Swedish pregnant women and in cord blood: influence of fish consumption. *Environ Health Perspect* 111, 637-641.

<https://doi.org/10.1289/ehp.111-1241457>

Atuma SS, Aune M, Darnerud PO, Cnattingius S, Wernroth ML, Wicklund-Glynn A. 2001. Polybrominated diphenyl ethers (PBDEs) in human milk from Sweden. In: Lipnick RL, Jansson B, Mackay D, Petreas M, editors. *Persistent, bioaccumulative and toxic chemicals. 2. Assessment and new chemicals*. Washington, DC. American Chemical Society. ACS Symposium Series 773. p. 235-242.

Wicklund Glynn A, Atuma S, Aune M, Darnerud PO, Cnattingius S. 2001. Polychlorinated biphenyl congeners as markers of toxic equivalents of polychlorinated biphenyls, dibenzo-p-dioxin, and dibenzo-furans in breast milk. *Environ Res Section A* 86, 217-228.
<https://doi.org/10.1006/enrs.2001.4270>