Event summary report

Event: The conference: “Reproductive toxicity and endocrine disruption - an update”.

Time: October 18 - 19, lunch-to-lunch, 2018.

Venue: the lecture hall “Ekmansalen”, the Evolutionary Biology Centre (EBC), Norbyvägen 14.

The participation fee was 400 SEK. A financial contribution to the conference was received from the platform Future Animals, Nature and Health (SLU).

Organizing committee: Cecilia Berg, Dept of Environmental Toxicology, Uppsala University, Malin Hagberg Gustavsson, Centre for Reproductive Biology in Uppsala (CRU), Sara Persson, Swedish Museum of Natural History/Dept of Clinical Sciences, Swedish University of Agricultural Science (SLU) and Ylva Sjunnesson, Dept of Clinical Sciences, SLU.

Participants: There were 51 participants from six countries (Sweden, Denmark, Norway, Finland, Germany, UK) representing academia, governmental agencies, institutes, and a company. The affiliations of the participants are: Uppsala University, Uppsala University Hospital, Swedish University of Agricultural Science, SLU, Swetox/Karolinska Institute, Stockholm University, Swedish Museum of Natural History, National Food Institute, Technical University of Denmark, University of Bergen, Norway, University of Veterinary Medicine Hannover, Germany, Natural Resources Institute Finland (LUKE), Swedish Chemicals Agency, Swedish Environmental Protection Agency, University of Exeter, UK, Institute of Zoology, Zoological Society of London, UK and H&M Hennes & Mauritz GBC AB.

The programme

The aims of the conference were to 1) gather new knowledge on reproductive toxicity and endocrine disruption in a wide range or model organisms, 2) gather new knowledge on chemical exposure and reproductive health in humans and wildlife, and 3) provide an opportunity for interdisciplinary learning and networking.

The scientific programme (see below) spanned reproductive toxicity and endocrine disruption in a broad range of model organisms including fish, frogs, birds, rats, and tissue from cows and humans. Several types of emerging and well-known environmental chemicals were discussed including PFAS, bisphenols, PCBs, phthalates and pesticides. Several presentations concerned mixture toxicity and the subject of transgenerational toxicity was also touched upon. Biomonitoring data from humans and wildlife with regard to reproductive health as well as exposure routes and levels for several types of environmental chemicals were presented and discussed.

18th October		
11.00-13.00	**Registration**	
11.30-13.00	**Lunch at the EBC** (included in fee)	
Session I. Chair: Cecilia Berg		
13.00-13.15	Welcome	Cecilia Berg
13.15-14.00	**Keynote:** Using fish for assessing the environmental impacts of endocrine disrupting chemicals in the environment	Charles Tyler, University of Exeter, UK
14.05-14.20	Multigenerational effects of an anti-androgen in the male reproductive system of frogs	Sofie Svanholm, Dept of Environmental Toxicology, Uppsala University (UU)
14.20-15.00	**Coffee**	
15.00-15.45	Effects of PFAS in rats – mixture effects and endocrine disruption	Louise Ramhöj, Technical University of Denmark, DK
15.50-16.05	Effects of PFNA on embryo development in a bovine *in vitro* model	Ida Hallberg, Dept of Clinical Sciences, Swedish University of Agricultural Sciences (SLU)
16.10-16.20	**Break**	
16.20-16.45	Early-life exposure to PFASs and child health – results from the POPUP cohort	Anders Glynn, Dept of Biomedical Sciences and Veterinary Public Health, SLU
17.45-18.45	**Social activity** (included in fee): Tour of the Cathedral (Domkyrkoplan, 75310 Uppsala)	
19.00 –	**Dinner** (Included in fee) in Norrlands nation (Västra Ågatan 14, 75309 Uppsala)	

19th October		
Session II. Chair: Sara Persson		
09.00-9.45	The Killer Whale Apocalypse – PCBs and reproductive toxicity	Paul Jepson, Institute of Zoology, UK
09.50-10.20	**Coffee**	
10.20-10.35	Maternal transfer of pollutants via lactation in otters	Anna Roos, Swedish Museum of Natural History
10.40-10.55	Bisphenol AF and a metabolite of bisphenol A disrupt reproductive organ development in the chicken embryo	Anna Mattsson, Dept of Environmental Toxicology, UU.
11.00-11.10	**Break**	
Session II continued. Chair: Ylva Sjunnesson		
11.10-11.25	Modulation of human ovarian biology resulting from exposure of a phthalate mixture representative of exposure levels in Swedish pregnant women	Astrud Tuck, Dept of Clinical Science, Intervention and Technology, Karolinska Institute
11.30-11.45	Has reproduction in Baltic Sea ringed seals recovered?	Sara Persson, Swedish Museum of Natural History
11.50-12.10	Concluding remarks	Cecilia Berg
12.10-13.30	**Lunch at the EBC** (included in fee)	