Bibliography for PFCs (current as of 09-05-18)

Ahrens 2009: Ahrens L, et al. Total body burden and tissue distribution of polyfluorinated compounds in harbor seals (*Phoca vitulina*) from the German Bight. *Marine Pollution Bulletin* **58** (2009) 520-525.

Ahrens 2011: Ahrens L. Polyfluoroalkyl compounds in the aquatic environment: a review of their occurrence and fate. *Journal of Environmental Monitoring*, 2011, **13**, 20-31.

Ahrens 2016: Ahrens L, et al. Poly- and perfluoroalkylated substances (PFASs) in water, sediment and fish muscle tissue from Lake Tana, Ethiopia and implications for human exposure. *Chemosphere.* 2016 Dec;**165:**352-357.

Alava 2015: Alava, JJ, et al. (2015). Perfluorinated Chemicals in Sediments, Lichens, and Seabirds from the Antarctic Peninsula. In M.L. Larramendy (Ed.), *Emerging Pollutants in the Environment* (pp. 51-73). Retrieved from https://cdn.intechopen.com/pdfs/48388.pdf.

Alexander 2003: Alexander BH, et al. Mortality of employees of a perfluorooctanesulphonyl fluoride manufacturing facility. *Occupational and Environmental Medicine*, 2003; **60**:722-729.

ANSES 2017: ANSES. Derivation of a Toxicological Reference Value for PFHxA. ANSES. English Translation. November 3, 2017.

ANSES 2017a: French National Agency for Food Safety, Environment and Labor (ANSES). Development of oral-administered treatment for TRV by Perfluorohexanoic acid (PFHxA). June 2017.

ATSDR 2008: Agency for Toxic Substances and Disease Registry. Perfluorochemical Contamination in Lake Elmo and Oakdale, Washington County, Minnesota, EPA Facility ID: MND980704738 and MND980609515. August 29, 2008.

ATSDR 2015: Agency for Toxic Substances and Disease Registry. Draft Toxicological Profile for Perfluoroalkyls, August 2015. Accessed online at: https://www.atsdr.cdc.gov/toxprofiles/tp200.pdf.

ATSDR 2016: Agency for Toxic Substances and Disease Registry – Minimal Risk Levels (MRLs) – March 2016; Accessed online 9/8/16 at: http://www.atsdr.cdc.gov/mrls/pdfs/atsdr_mrls.pdf

ATSDR 2018: Agency for Toxic Substances and Disease Registry. Toxicological Profile for Perfluoroalkyls – Draft for Public Comment, June 2018. Accessed online at: https://www.atsdr.cdc.gov/toxprofiles/tp200.pdf.

Avanasi 2016: Avanasi R, et al. Impact of Exposure Uncertainty on the Association between Perfluorooctanoate and Preeclampsia in the C8 Health Project Population. *Environ Health Perspect.* 2016 Jan;**124(1):**126-32.

Avanasi 2016a: Avanasi R, et al. Impacts of geocoding uncertainty on reconstructed PFOA exposures and their epidemiological association with preeclampsia. *Environ Res.* 2016 Nov;**151**:505-512.

Averina 2018: Averina M, et al. Perfluoroalkyl substances in adolescents in northern Norway: Lifestyle and dietary predictors. The Tromso study, Fit Futures 1. *Environmental International* 2018 May; **114**:123-130.

Bach 2015: Bach CC, et al. Perfluoroalkyl and polyfluoroalkyl substances and human fetal growth: a systematic review. *Crit Rev Toxicol.* 2015 Jan;**45(1):**53-67.

Ballesteros 2017: Ballesteros V, et al. Exposure to perfluoroalkyl substances and thyroid function in pregnant women and children: A systematic review of epidemiologic studies. *Environmental International* **99** (2017) 15-28.

Barmentlo 2015: Barmentlo SH, et al. Acute and chronic toxicity of short chained perfluoroalkyl substances to Daphnia magna. *Environmental Pollution* **198** (2015) 47-53.

Barry 2014: Barry V, et al. Early life perfluorooctanoic acid (PFOA) exposure and overweight and obesity risk in adulthood in a community with elevated exposure. *Environmental Research* **132** (2014) 62-69.

Bartolome 2017: Bartolome M, et al. Perfluorinated alkyl substances in Spanish adults: Geographical distribution and determinants of exposure. *Sci Total Environ.* 2017 Jun 17;**603-604**:352-360.

Beggs 2016: Beggs KM, et al. The role of hepatocyte nuclear factor 4-alpha in perfluorooctanoic acid- and perfluorooctanesulfonic acid-induced hepatocellular dysfunction. *Toxicol Appl Pharmacol.* 2016 Aug 1;**304**:18-29.

Berntsen 2017: Bernsten HF, et al. Time-dependent effects of perfluorinated compounds on viability in cerebellar granule neurons: Dependence on carbon chain length and functional group attached. *NeuroToxicology* **63** (2017) 70-83.

Biegel 1995: Biegel LB, et al. Effects of Ammonium Perfluorooctanoate on Leydig Cell Function: *In Vitro, in Vivo,* and *ex Vivo* Studies. *Toxicology and Applied Pharmacology* **134**, 18-25 (1995).

Biegel 2001: Biegel LB, et al. Mechanisms of Extrahepatic Tumor Induction by Peroxisome Proliferators in Male CD Rats. *Toxicological Sciences* **60**, 44-55 (2001).

Bizarro 2016: Bizarro C, et al. Single and mixture effects of aquatic micropollutants studied in precision-cut liver slices of Atlantic cod (Gadus morhua). *Aquat Toxicol.* 2016 Aug;**177:**395-404.

Bjork and Wallace 2009: Bjork JA, Wallace KB. Structure-Activity Relationship and Human Relevance for Perfluoroalkyl Acid-Induced Transcriptional Activation of Peroxisome Proliferation in Liver Cell Cultures. *Toxicological Sciences* **111(1),** 89-99 (2009).

Blaine 2014: Blaine, et al. Perfluoroalkyl acid uptake in lettuce (*Lactuca sativa*) and strawberry (*Fragaria ananassa*) irrigated with reclaimed water. *Environ Sci Technol*. 2014 Dec 16;**48(24):**14361-8.

Blanc 2017: Blanc M, et al. Mixture-specific gene expression in zebrafish (Danio rerio) embryos exposed to perfluorooctane sulfonic acid (PFOS), perfluorohexanoic acid (PFHxA) and 3,3',4,4',5-pentachlorobiphenyl (PCB126). *Sci Total Environ.* 2017 Jul 15;**590-591**:249-257.

Bloom 2010: Bloom MS, et al. Exploratory assessment of perfluorinated compounds and human thyroid function. *Physiology & Behavior* **99** (2010) 240-245.

Borg 2013: Borg D, et al. Cumulative health risk assessment of 17 perfluoroalkylated and polyfluoroalkylated substances (PFASs) in the Swedish population. *Environment International* **59** (2013) 112-123.

Borghoff 2017: Borghoff SJ, et al. The potential for PFHxA to modulate the endocrine system in wildlife: A hypothesis-driven weight-of-evidence analysis across endocrine pathways. SETAC poster from ToxStrategies and EAG Laboratories.

Braun 2016: Braun JM, et al. Prenatal Perfluoroalkyl Substance Exposure and Child Adiposity at 8 Years of Age: The HOME Study. *Obesity* (2016) **24,** 231-237.

Buck 2011: Buck RC, et al. Perfluoroalkyl and Polyfluoroalkyl Substances in the Environment: Terminology, Classification, and Origins. *Integrated Environmental Assessment and Management*, **7(4),** 513-541 (2011).

Buhrke 2015: Buhrke T, et al. Perfluorooctanoic acid (PFOA) affects distinct molecular signalling pathways in human primary hepatocytes. *Toxicology.* 2015 Jul 3;**333**:53-62.

Bull 2014: Bull S, Burnett K, Vassaux K, Ashdown L, Brown T, Rushton L. Extensive literature search and provision of summaries of studies related to the oral toxicity of perfluoroalkylated substances (PFASs), their precursors and potential replacements in experimental animals and humans Area 1: Data on toxicokinetics (absorption, distribution, metabolism, excretion) in in vitro studies, experimental animals and humans Area 2: Data on toxicity in experimental animals Area 3: Data on observations in human. EFSA supporting publication 2014: EN-572.

Burkemper 2017: Burkemper JL, et al. Radiosynthesis and Biological Distribution of 18F-Labeled Perfluorinated Alkyl Substances. *Environmental Science & Technology Letters* 2017, **4**, 211-215.

Busch 2010: Busch J, et al. Polyfluoroalkyl compounds in the East Greenland Arctic Ocean. *Journal of Environmental Monitoring,* 2010, **12,** 1242-1246.

Butenhoff 2009: Butenhoff JL, et al. Evaluation of potential reproductive and developmental toxicity of potassium perfluorohexanesulfonate in Sprague Dawley rats. *Reproductive Toxicology* **27** (2009) 331-341.

Butenhoff 2012: Butenhoff JL, et al. Chronic dietary toxicity and carcinogenicity study with ammonium perfluorooctanoate in Sprague-Dawley rats. *Toxicology* **298** (2012) 1-13.

Butenhoff 2012a: Butenhoff JL, et al. Toxicological evaluation of ammonium perfluorobutyrate in rats: Twenty-eight-day and ninety-day oral gavage studies. *Reproductive Toxicology* **33** (2012) 513-530.

Butt 2008: Butt CM, et al. Spatial Trends of Perfluoroalkyl Compounds in Ringed Seals (*Phoca Hispida*) From the Canadian Arctic. *Environmental Toxicology and Chemistry*, **27(3),** 542-553, 2008.

CA 2015: CA Scientific Guidance Panel Biomonitoring California. Mar 13, 2015. Potential Designated Chemicals: Perfluoroalkyl and Polyfluoroalkyl Substances (PFASs) (p.11 referencing Nilsson et al 2013). Accessed online at: http://www.biomonitoring.ca.gov/sites/default/files/downloads/PotenDesigPFASs_031315.pdf.

Cai 2012: Cai M, et al. Per- and polyfluoroalkyl substances in snow, lake, surface runoff water and coastal seawater in Fildes Peninsula, King George Island, Antarctica. *Journal of Hazardous Materials* **209-210** (2012) 335-342.

Campo 2016: Campo J, et al. Analysis of the presence of perfluoroalkyl substances in water, sediment and biota of the Jucar River (E Spain). Sources, partitioning and relationships with water physical characteristics. *Environmental Research* **147** (2016) 503-512.

Caverly Rae 2014: Caverly Rae JM, et al. Pathology review of proliferative lesions of the exocrine pancreas in two chronic feeding studies in rats with ammonium perfluorooctanoate. *Toxicology Reports* **1** (2014) 85-91.

C8 2011a: C8 Science Panel. Probable Link Evaluation of Pregnancy Induced Hypertension and Preeclampsia, December 5, 2011.

C8 2012: C8 Science Panel. C8 Probably Link Reports website, October 29, 2012. Accessed online at: http://www.c8sciencepanel.org/prob_link.html.

C8 2012a: C8 Science Panel. Probable Link Evaluation of Cancer, April 15, 2012.

C8 2012b: C8 Science Panel. Probable Link Evaluation of Thyroid disease, July 30, 2012.

C8 2012c: C8 Science Panel. Probable Link Evaluation for heart disease (including high blood pressure, high cholesterol, coronary artery disease), October 29, 2012.

C8 2012d: C8 Science Panel. Probable Link Evaluation of Autoimmune Disease, July 30, 2012.

Chan 2011: Chan E, et al. Perfluorinated acids and hypthyroxinemia in pregnant women. *Environmental Research* **111** (2011) 559-564.

Chang 2008: Chang SC, et al. Comparative Pharmacokinetics of Perfluorobutyrate in Rats, Mice, Monkeys, and Humans and Relevance to Human Exposure via Drinking Water. *Toxicological Sciences* **104(1),** 40-53 (2008).

Chang 2014: Chang ET, et al. A critical review of perfluorooctanoate and perfluorooctanesulfonate exposure and cancer risk in humans. *Crit Rev Toxicol*, 2014; **44(S1):** 1–81.

Chang 2016: Chang ET, et al. A critical review of perfluorooctanoate and perfluorooctanesulfonate exposure and immunological health conditions in humans. *Critical Reviews in Toxicology,* **46(4),** 2016, 279-331.

Chang 2016a: Supplemental Material (13 pages) for "Chang ET, et al. A critical review of perfluorooctanoate and perfluorooctanesulfonate exposure and immunological health conditions in humans. *Critical Reviews in Toxicology,* **46(4),** 2016, 279-331".

Chang 2017: Chang S, et al. Evaluation of Serum Lipid, Thyroid, and Hepatic Clinical Chemistries in Association With Serum Perfluorooctanesulfonate (PFOS) in Cynomolgus Monkeys After Oral Dosing With Potassium PFOS. *Toxicological Sciences*, 2017, 1-15 (Advanced Access Publication).

Chang 2017a: Supplemental Material for "Chang S, et al. Evaluation of Serum Lipid, Thyroid, and Hepatic Clinical Chemistries in Association With Serum Perfluorooctanesulfonate (PFOS) in Cynomolgus Monkeys After Oral Dosing With Potassium PFOS. *Toxicological Sciences*, 2017, 1-15 (Advanced Access Publication)".

Charles River 2011a: Charles River Laboratories. Oral (gavage) combined developmental and perinatal/postnatal reproduction toxicity study of PFH ammonium salt (ammonium salt of perfluorinated hexanoic acid) in mice. Charles River Laboratories preclinical Services Protocol Number 20005045. 2011. Available: https://www.daikin.com/chm/csr/pdf/PFHxA/13)_PFHxA_E.pdf.

Charles River 2011b: Charles River Laboratories. Oral (gavage) combined developmental and perinatal/postnatal reproduction toxicity study of PFH ammonium salt (ammonium salt of perfluorinated hexanoic acid) in mice. Charles River Laboratories preclinical Services Protocol Number UZS00010. 2011. Available: https://www.daikin.com/chm/csr/pdf/PFHxA/14)_PFHxA_E.pdf.

Charles River 2012: Charles River. 2012. Oral (gavage) combined developmental and perinatal/postnatal reproduction toxicity study of PFH ammonium salt (ammonium salt of perfluorinated hexanoic acid) in mice. Final report amendment. Charles River Laboratories preclinical Services Protocol Number 20005045. 2012. Available: https://www.daikin.com/chm/csr/pdf/PFHxA/15)_PFHxA_E.pdf.

ChemHAT 2016: Record for Perfluorooctanoic Acid, CASRN: 335-67-1, Accessed online, 11/23/16, http://www.chemhat.org/en/chemical/335-67-1/perfluorooctanoic-acid-pfoa-c-8.

ChemHAT 2017: Record for Perfluorooctanyl sulphonic acid, CASRN: 1763-23-1, Accessed online, 8/28/17, http://www.chemhat.org/en/chemical/1763-23-1/perfluorooctanyl-sulphonic-acid-pfos-c-8.

Chen 2016: Chen J, et al. Chronic perfluorooctanesulphonic acid (PFOS) exposure produces estrogenic effects in zebrafish. *Environ Pollut.* 2016 Nov**;218**:702-708.

Chen 2017: Chen Y, et al. Maternal exposure to perfluorooctanoic acid inhibits luteal function via oxidative stress and apoptosis in pregnant mice. *Reprod Toxicol.* 2017 Apr;**69**:159-166.

Chen 2018: Chen Q, et al. Prenatal exposure to perfluoroalkyl and polyfluoroalkyl substances and childhood atopic dermatitis: a prospective birth cohort study. *Environmental Health: A Global Access Science Source.* 2018 Jan 17; **17(1):** 8.

Cheng 2016: Cheng J, et al. Chronic perfluorooctane sulfonate (PFOS) exposure induces hepatic steatosis in zebrafish. *Aquat Toxicol.* 2016 Jul;**176**:45-52.

Chengelis 2009a: Chengelis CP, et al. Comparison of the toxicokinetic behavior of perfluorohexanoic acid (PFHxA) and nonafluorobutane-1-sulfonic acid (PFBS) in cynomolgus monkeys and rats. *Reprod. Toxicol.* 2009 Jun; **27 (3-4)**, 400–406.

Chengelis 2009b: Chengelis CP, et al. A 90-Day repeated dose oral (gavage) toxicity study of perfluorohexanoic acid (PFHxA) in rats (with functional observational battery and motor activity determinations). *Reproductive Toxicology*, **27(3-4),** June 2009, 342-352.

Choi 2017: Choi EM, et al. Perfluorooctanoic acid induces mitochondrial dysfunction in MC3T3-E1 osteoblast cells. *J Environ Sci Health A Tox Hazard Subst Environ Eng.* 2017 Feb 23;**52(3):**281-289. (On order through ILL, 9/19/17)

Chu 2016: Chu, et al. A New Fluorinated Surfactant Contaminant in Biota: Perfluorobutane Sulfonamide in Several Fish Species. *Environmental Science & Technology* **50** (2016), 669-675.

CIDP 2016a: Chemical ID Plus, A Toxnet Database. Bethesda (MD): National Library of Medicine (US); Perfluorooctanoic acid, CASRN: 335-67-1. Available from: https://chem.sis.nlm.nih.gov/chemidplus/

CIDP 2016b: Chemical ID Plus, A Toxnet Database. Bethesda (MD): National Library of Medicine (US); Perfluorooctane sulfonic acid, CASRN: 1763-23-1. Available from: https://chem.sis.nlm.nih.gov/chemidplus/

Codling 2014: Codling G, et al. Historical trends of inorganic and organic fluorine in sediments of Lake Michigan. *Chemosphere* **114** (2014) 203-209.

Consoer 2016: Consoer DM, et al. Toxicokinetics of perfluorooctane sulfonate in rainbow trout (Oncorhynchus mykiss). *Environ Toxicol Chem.* 2016 Mar;**35(3):**717-27.

Coperchini 2015: Coperchini F, et al. Exposure to perfluorinated compounds: in vitro study on thyroid cells. *Environ Sci Pollut Res Int.* 2015 Feb;**22(3):**2287-94.

Corsini 2011: Corsini E, et al. In vitro evaluation of the immunotoxic potential of perfluorinated compounds (PFCs). *Toxicology and Applied Pharmacology* **250** (2011) 108-116.

Corsini 2012: Corsini E, et al. In vitro characterization of the immunotoxic potential of several perfluorinated compounds (PFCs). *Toxicology and Applied Pharmacology* **258** (2012) 248-255.

Corsini 2014: Corsini E, et al. Perfluorinated Compounds: Emerging POPs with Potential Immunotoxicity. *Toxicology Letters* 2014 October 15; **230(2):** 263-270.

Corton 2018: Corton JB, et al. The PPARα-dependent rodent liver tumor response is not relevant to humans: addressing misconceptions. *Archives of Toxicology* (2018) **92**:83-119.

CT DPH 2017: Connecticut Department of Public Health – Environmental & Occupational Health Assessment Program. Perfluoroalkyl Substances (PFAS) in Drinking Water: Health Concerns Fact Sheet. October 2017. Accessed online at: http://portal.ct.gov/-/media/Departments-and-Agencies/DPH/dph/environmental_health/eoha/Toxicology_Risk_Assessment/2018-uploads/Perfluoroalkyl-Substances-PFASs-in-DWHealth-Concerns.pdf?la=en.

Cui 2015: Cui Y, et al. Investigation of the Effects of Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS) on Apoptosis and Cell Cycle in a Zebrafish (Danio rerio) Liver Cell Line. *Int J Environ Res Public Health.* 2015 Dec 9;**12(12):**15673-82.

Cui 2017: Cui Y, et al. Chronic perfluorooctanesulfonic acid exposure disrupts lipid metabolism in zebrafish. *Hum Exp Toxicol.* 2017 Mar;**36(3):**207-217.

D'Agostino and Mabury 2017: D'Agostino LA, Mabury SA. Aerobic biodegradation of 2 fluorotelomer sulfonamide-based aqueous film-forming foam components produces perfluoroalkyl carboxylates. *Environ Toxicol Chem.* 2017 Feb 1 doi: 10.1002/etc.3750. [Epub ahead of print].

Daikin 2007: Hita Laboratory, Chemicals Evaluation and Research Institute, Japan. Twenty-Eight-Day Repeated Dose Oral Toxicity Study of 13F-EtOH In Rats. July 2007. Accessed online: http://www.daikin.com/chm/csr/pdf/C6-2Alcohol/28)_C6-2Alcohol_E.pdf.

Dalahmeh 2018: Dalahmeh S, et al. Per- and polyfluoroalkyl substances (PFASs) in water, soil and plants in wetlands and agricultural areas in Kampala, Uganda. *Science of the Total Environment* **631-632** (2018) 660-667.

Dalsager 2016: Dalsager L, et al. Association between prenatal exposure to perfluorinated compounds and symptoms of infections at age 1–4 years among 359 children in the Odense Child Cohort. *Environment International* **96** (2016) 58–64.

Danish EPA 2013: Danish Environmental Protection Agency. Survey of PFOS, PFOA and other perfluoroalkyl and polyfluoroalkyl substances – Part of the LOUS-review. Environmental Project No. 1475, 2013. Accessed online at: http://www2.mst.dk/Udgiv/publications/2013/04/978-87-93026-03-2.pdf

Danish EPA 2015a: Danish Environmental Protection Agency. Polyfluoroalkyl substances (PFASs) in textiles for children. Survey of chemical substances in consumer products No. 136, 2015. Accessed online at: http://www2.mst.dk/Udgiv/publications/2015/04/978-87-93352-12-4.pdf

Danish EPA 2015b: Danish Environmental Protection Agency. Short-chain Polyfluoroalkyl substances (PFAS) – A literature review of information on human health effects and environmental fate and effect aspects of short-chain PFAS. Environmental project No. 1707, 2015. Accessed online at: http://www2.mst.dk/Udgiv/publications/2015/05/978-87-93352-15-5.pdf.

Danish EPA 2015c: Danish Environmental Protection Agency. Perfluoroalkylated substances: PFOA, PFOS, and PFOSA – Evaluation of health hazards and proposal of a health based quality criterion for drinking water, soil, and ground water. Environmental project No. 1665, 2015. Accessed online at: http://www2.mst.dk/Udgiv/publications/2015/04/978-87-93283-01-5.pdf.

Darrow 2016: Darrow LA, et al. Modeled Perfluorooctanoic Acid (PFOA) Exposure and Liver Function in a Mid-Ohio Valley Community. *Environ Health Perspect.* 2016 Aug;**124(8)**:1227-33.

Das 2008: Das KP, et al. Effects of Perfluorobutyrate Exposure during Pregnancy in the Mouse. *Toxicological Sciences* **105(1),** 173-181 (2008).

Das 2015: Das KP, et al. Developmental toxicity of perfluorononanoic acid in mice. *Reprod Toxicol.* 2015 Jan;**51**:133-44.

Das 2015a: Das P, et al. Perfluorooctane sulfonate release pattern from soils of fire training areas in Australia and its bioaccumulation potential in the earthworm Eisenia fetida. *Environ Sci Pollut Res Int.* 2015 Jun**;22(12):**8902-10.

Das 2017: Das KP, et al. Perfluoroalkyl acids-induced liver steatosis: Effects on genes controlling lipid homeostasis. *Toxicology.* 2017 Mar 1;**378**:37-52.

DEP 2016: Maine CDC Environmental and Occupational Health Programs. Table 1. Summary of results from recent epidemiology studies focusing on PFOA and PFCs (received from MA DEP 12/7/16).

DEP 2016a: Table 1. Comparison of State and Federal PFOA drinking water guidelines (received from MA DEP 12/7/16).

DeWitt 2012: DeWitt, JC et al. Immunotoxicity of Perfluorinated Compounds: Recent Developments. *Toxicologic Pathology*, **40:**200-311, 2012.

DeWitt 2015: DeWitt, Jamie C. *Toxicological Effects of Perfluoroalkyl and Polyfluoroalkyl Substances*. Humana Press; 2015 edition (April 14, 2015).

DeWitt 2016: DeWitt JC, et al. Suppression of antigen-specific antibody responses in mice exposed to perfluorooctanoic acid: Role of PPARα and T- and B-cell targeting. *J Immunotoxicol.* 2016;**13(1):**38-45.

Dhingra 2016: Dhingra R, et al. Perfluorooctanoic acid exposure and natural menopause: A longitudinal study in a community cohort. *Environ Res.* 2016 Apr;**146**:323-30.

Dhingra 2016a: Dhingra R, et al. Perfluorooctanoic acid and chronic kidney disease: Longitudinal analysis of a Mid-Ohio Valley community. *Environ Res.* 2016 Feb;**145**:85-92.

Dhingra 2017: Dhingra R, et al. A Study of Reverse Causation: Examining the Associations of Perfluorooctanoic Acid Serum Levels with Two Outcomes. *Environmental Health Perspectives* **125**:416-421, 2017.

Dhingra 2017a: Supplemental Material for "Dhingra R, et al. A Study of Reverse Causation: Examining the Associations of Perfluorooctanoic Acid Serum Levels with Two Outcomes. *Environmental Health Perspectives* **125**:416-421, 2017".

D'Hollander 2010: D'Hollander W, et al. Perfluorinated substances in human food and other sources of human exposure. *Rev Environ Contam Toxicol.* 2010; **208:** 179-215.

Dietz 2015: Dietz R, et al. Physiologically-based pharmacokinetic modelling of immune, reproductive and carcinogenic effects from contaminant exposure in polar bears (Ursus maritimus) across the Arctic. *Environ Res.* 2015 Jul;**140**:45-55.

Ding 2013: Ding G & Peijnenburg WJGM. Physicochemical Properties and Aquatic Toxicity of Poly- and Perfluorinated Compounds. *Critical Reviews in Environmental Science and Technology*, **43(6),** 2013, 598-678. [Would need to order through ILL]

Ding 2015: Ding G, et al. Toxicity and DNA methylation changes induced by perfluorooctane sulfonate (PFOS) in sea urchin Glyptocidaris crenularis. *Chemosphere.* 2015 Jun;**128**:225-30.

Domínguez 2016: Domínguez A, et al. Effect of perfluorooctane sulfonate on viability, maturation and gap junctional intercellular communication of porcine oocytes in vitro. *Toxicol In Vitro.* 2016 Sep;**35**:93-9.

Dong 2013: Dong GH, et al. Serum Polyfluoroalkyl Concentrations, Asthma Outcomes, and Immunological Markers in a Case-Control Study of Taiwanese Children. *Environmental Health Perspectives* **121**:507-513 (2013).

Du 2016: Du J, et al. Developmental toxicity and DNA damage to zebrafish induced by perfluorooctane sulfonate in the presence of ZnO nanoparticles. *Environ Toxicol.* 2016 Mar;**31(3):**360-71.

Du 2017: Du J, et al. Oxidative stress and apotosis to zebrafish (Danio rerio) embryos exposed to perfluorooctane sulfonate (PFOS) and ZnO nanoparticles. *Int J Occup Med Environ Health.* 2017 Mar 30;**30(2):**213-229.

Dufour 2018: Dufour P, et al. Association between organohalogenated pollutants in cord blood and thyroid function in newborns and mothers from Belgian population. *Environmental Pollution* (Barking, Essex: 1987). 2018 Mar 23; **238**:389-396.

ECHA 2015: European Chemicals Agency, (2015). Member State Committee Support Document for Identification of Perfluorononan-1-oic Acid and Its Sodium and Ammonium Salts As Substances of Very High Concern Because of Their Toxic For Reproduction and PBT Properties. Available online at: https://echa.europa.eu/documents/10162/48ae5fe3-9436-4a10-a533-ed642b92ce47.

ECHA 2015a: European Chemicals Agency, (August 31, 2015). DECISION ON SUBSTANCE EVALUATION PURSUANT TO ARTICLE 46(1) OF REGULATION (EC) NO 1907/2006 – For reaction mass of mixed (3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) phosphates, ammonium salt, CAS No not available (EC No 700-161-3). Accessed online: https://echa.europa.eu/documents/10162/58786c6a-d440-46d7-9438-022fdc37191c.

ECHA 2016a: European Chemicals Agency, REACH Registration Database, Record for CAS RN 335-67-1, Perfluorooctanoic acid. Available online at: https://echa.europa.eu/substance-information/-/substanceinfo/100.005.817

ECHA 2016b: European Chemicals Agency, REACH Registration Database, Record for CAS RN 1763-23-1, Perfluorooctane sulfonic acid. Available online at: https://echa.europa.eu/substance-information/-/substanceinfo/100.015.618

ECHA 2016c: European Chemicals Agency, CLP Data base entry for CAS # 1763-23-1, Accessed online 9/13/16, https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/82756

ECHA 2017: Swedish Chemicals Agency, (2017). Annex XV report – Proposal for Identification of a Substance of Very High Concern on the Basis of the Criteria set out in REACH article 57, Substance Name(s): Perfluorohexane-1-sulphonic acid and its salts. 2017-03-02. Accessed online 04/20/17, https://echa.europa.eu/documents/10162/40a82ea7-dcd2-5e6f-9bff-6504c7a226c5.

ECHA 2017a: European Chemicals Agency. Non-exhaustive list of relevant numerical identifiers for the Candidate List entry "Perfluorohexane-1-sulphonic acid and its salts (PFHxS)". June 28, 2017.

ECHA 2018: European Chemicals Agency. 2018. Summary of Classification and Labelling for Perfluorohexane-1-sulphonic acid, CAS # 355-46-4. Retrieved from https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/10265.

ECHA 2018a: European Chemicals Agency record for Perfluoroheptanoic acid, CAS # 375-85-9, Accessed online at: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/37168.

EC 2006: Environment Canada. Ecological Screening Assessment Report on Perfluorooctane Sulfonate, Its Salts and Its Precursors that Contain the $C_8F_{17}SO_2$ or $C_8F_{17}SO_3$, or $C_8F_{17}SO_2N$ Moiety. June 2006. Accessed online at: http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=98B1954A-1.

EC 2012: Environment Canada, Health Canada. Screening Assessment Report: Perfluorooctanoic Acid, its Salts, and its Precursors. August 2012. Accessed online at: http://www.ec.gc.ca/ese-ees/default.asp?lang=En&n=370AB133-1.

EFSA 2014: Ricardo-AEA Ltd. For European Food Safety Authority (EFSA). Extensive literature search and provision of summaries of studies related to the oral toxicity of perfluoroalkylated substances (PFASs), their precursors and potential replacements in experimental animals and humans – Area 1: Data on toxicokinetics (absorption, distribution, metabolism, excretion) in in vitro studies, experimental animals and humans; Area 2: Data on toxicity in experimental animals; Area 3: Data on observations in humans. EFSA supporting publication 2014:EN-572. Accessed online: http://onlinelibrary.wiley.com/doi/10.2903/sp.efsa.2014.EN-572/abstract.

Ellis 2004: Ellis DA, et al. Degradation of Fluorotelomer Alcohols: A Likely Atmospheric Source of Perfluorinated Carboxylic Acids. *Environmental Science & Technology*, 2004, **38**, 3316-3321.

Emmett 2006: Emmett EA, et al. Community Exposure to Perfluorooctanoate: Relationships Between Serum Levels and Certain Health Parameters. *J Occup Environ Med.* 2006 August; **48(8);** 771-779.

ENVIRON 2014: Assessment of POP Criteria for Specific Short-Chain perfluorinated Alkyl Substances. Report prepared for FluoroCouncil, Washington, DC. Project Number: 0134304A . ENVIRON International Corporation, Arlington, Virginia, January 2014.

ENVIRON 2016: Assessment of POP Criteria for Specific Short-Chain Perfluorinated Alkyl Substances. Report prepared for FluoroCouncil, Washington, DC. December 2016.

Ericson 2008: Ericson I, et al. Levels of perfluorochemicals in water samples from Catalonia, Spain: is drinking water a significant contribution to human exposure? *Environmental Science and Pollution Research Int.* 2008 Oct; **15(7):** 614-9.

Eriksen 2009: Eriksen KT, et al. Perfluorooctanoate and Perfluorooctanesulfonate Plasma Levels and Risk of Cancer in the General Danish Population. *Journal of the National Cancer Institute,* 2009; **101**: 605-609.

Eriksen 2010: Eriksen KT, et al. Genotoxic potential of the perfluorinated chemicals PFOA, PFOS, PFBS, PFNA and PFHxA in human HepG2 cells. *Mutation Research* **700** (2010) 39-43.

Eriksen 2013: Eriksen KT, et al. Association between Plasma PFOA and PFOS Levels and Total Cholesterol in a Middle-Aged Danish Population. *PLOS One*, February 2013, **8(2),** e56969.

Fai Tse 2016: Fai Tse WK, et al. Fatty liver disease induced by perfluorooctane sulfonate: Novel insight from transcriptome analysis. *Chemosphere.* 2016 Sep;**159**:166-77.

Fang 2008: Fang X, et al. Immunotoxic effects of perfluorononanoic acid on BALB/c mice. *Toxicological Sciences*, 2008, **105**:312-321.

Fang 2009: Fang X, et al. Alterations of Cytokines and MAPK Signaling Pathways are Related to the Immunotoxic Effect of Perfluorononanoic Acid. *Toxicological Sciences* **108 (2),** 1 April 2009, 367-376.

Fang 2010: Fang X, et al. Perfluorononanoic acid-induced apoptosis in rat spleen involves oxidative stress and the activation of caspase-independent death pathway. *Toxicology* **267** (2010) 54-59.

Fang 2012: Fang X, et al. Exposure of perfluorononanoic acid suppressed the hepatic insulin signal pathway and increases serum glucose in rats. *Toxicology*; **294:** 109-115.

Fang 2012a: Fang X, et al. In vitro and in vivo studies of the toxic effects of perfluorononanoic acid on rat hepatocytes and Kupffer cells. *Environmental Toxicology and Pharmacology* **34** (2012) 484-494.

Fang 2012b: Fang X, et al. Kupffer cells suppress perfluorononanoic acid-induced hepatic peroxisome proliferator-activated receptor α expression by releasing cytokines. *Archives of Toxicology*, October 2012, **86 (10)** 1515-1525.

Fang 2015: Fang X, et al. Perfluorononanoic acid disturbed the metabolism of lipid in the liver of streptozotocin-induced diabetic rats. *Toxicol Mech Methods.* 2015;**25(8):**622-7. (On ORDER through ILL, 9/19/17)

Fang 2018: Fang X, et al. Elevation of intracellular calcium and oxidative stress is involved in perfluorononanoic acid-induced neurotoxicity. *Toxicology and Industrial Health.* 2018 Mar; **34(3):** 139-145.

Feng 2015: Feng X, et al. Chronic Exposure of Female Mice to an Environmental Level of Perfluorooctane Sulfonate Suppresses Estrogen Synthesis Through Reduced Histone H3K14 Acetylation of the StAR Promoter Leading to Deficits in Follicular Development and Ovulation. *Toxicol Sci.* 2015 Dec;**148(2):**368-79.

Feng 2017: Feng X, et al. Exposure of Pregnant Mice to Perfluorobutanesulfonate Causes Hypothyroxinemia and Developmental Abnormalities in Female Offspring. *Toxicological Sciences*, **155(2),** 2017, 409-419.

Filgo 2015: Filgo AJ, et al. Perfluorooctanoic Acid (PFOA)-induced Liver Lesions in Two Strains of Mice Following Developmental Exposures: PPARα Is Not Required. *Toxicol Pathol.* 2015 Jun;**43(4):**558-68.

Fisher 2012: Fisher M, et al. Do perfluoroalkyl substances affect metabolic function and plasma lipids? – Analysis of the 2007-2009, Canadian Health Measures Survey (CHMS) Cycle 1. *Environmental Research* **121** (2013) 95-103.

Fitz-Simon 2013: Fitz-Simon, N, et al. Reductions in Serum Lipids with a 4-year Decline in Serum Perfluorooctanoic Acid and Perfluorooctanesulfonic Acid. *Epidemiology.* 2013 July; **24(4):** 569-576.

FluoroCouncil 2017: FluoroCouncil Critical Review of "Accumulation of Perfluoroalkyl Substances in Human Tissues" *Environment International* **59** (2013) 354-362, "Perez et al. 2013".

Foreman 2009: Foreman, JE, et al. Differential Hepatic Effects of Perfluorobutyrate Mediated by Mouse and Human PPAR-α. *Toxicological Sciences* **110(1),** 204-211 (2009).

Forns 2015: Forns J, et al. Perfluoroalkyl substances measured in breast milk and child neuropsychological development in a Norwegian birth cohort study. *Environ Int.* 2015 Oct;**83**:176-82.

Fraser 2012: Fraser, AJ, et al. Polyfluorinated Compounds in Serum Linked to Indoor Air in Office Environments. *Environmental Science & Technology*, 2012, **46,** 1209-1215.

Fujii 2015: Fujii, Y, et al. Toxicokinetics of perfluoroalkyl carboxylic acids with different carbon chain lengths in mice and humans. *Journal of Occupational Health* 2015; **57**: 1-12.

Gallo 2012: Gallo V, et al. Serum Perfluorooctanoate (PFOA) and Perfluorooctane Sulfonate (PFOS) Concentrations and Liver Function Biomarkers in a Population with Elevated PFOA Exposure. *Environmental Health Perspectives* **120**; 655-660 (2012).

Gannon 2011: Gannon SA, et al. Absorption, distribution, metabolism, and excretion of [1-^{14}C]-perfluorohexanoate ([^{14}C]-PFHx) in rats and mice. *Toxicology* **283** (2011) 55-62.

Gao 2017: Gao Y, et al. Perfluorooctanesulfonate (PFOS)-induced Sertoli cell injury through a disruption of F-actin and microtubule organization is mediated by Akt1/2. *Sci Rep*. 2017 Apr 24;**7(1):**1110.

Ge 2016: Ge J, et al. ROS-mediated apoptosis of HAPI microglia through p53 signaling following PFOS exposure. *Environ Toxicol Pharmacol.* 2016 Sep;**46**:9-16.

Gebbink and Letcher 2012: Gebbink WA and Letcher RJ. Comparative tissue and body compartment accumulation and maternal transfer to eggs of perfluoroalkyl sulfonates and carboxylates in Great Lakes herring gulls. *Environmental Pollution* **162** (2012) 40-47.

Giari 2016: Giari L, et al. Common carp Cyprinus carpio responses to sub-chronic exposure to perfluorooctanoic acid. *Environ Sci Pollut Res Int.* 2016 Aug;**23(15):**15321-30.

Giesy 2010: Giesy JP, et al. Aquatic Toxicology of Perfluorinated Chemicals. *Reviews of Environmental Contamination and Toxicology*, **202**, 2010, 1-52.

Gilliland and Mandel 1993: Gilliland FD, Mandel JS. Mortality among employees of a perfluorooctanoic acid production plant. *Journal of Occupational Medicine: Official publication of the Industrial Medical Association.* **35 (9)** September 1993.

Giménez-Bastida 2015: Giménez-Bastida JA, et al. In vitro evaluation of the cytotoxicity and modulation of mechanisms associated with inflammation induced by perfluorooctanesulfonate and perfluorooctanoic acid in human colon myofibroblasts CCD-18Co. *Toxicol In Vitro.* 2015 Oct;**29(7):**1683-91.

Gleason 2015: Gleason JA, et al. Associations of perfluorinated chemical serum concentrations and biomarkers of liver function and uric acid in the US populations (NHANES), 2007-2010. *Environmental Research* **136** (2015) 8-14.

Glynn 2012: Glynn A, et al. Perfluorinated Alkyl Acids in Blood Serum from Primiparous Women in Sweden: Serial Sampling during Pregnancy and Nursing, And Temporal Trends 1996-2010. *Environmental Science & Technology* 2012, **46**, 9071-9079.

Glynn 2012a: Glynn A, et al. Supporting information for: Perfluorinated Alkyl Acids in Blood Serum from Primiparous Women in Sweden: Serial Sampling during Pregnancy and Nursing, And Temporal Trends 1996-2010. *Environmental Science & Technology* 2012, **46**, 9071-9079.

Godfrey 2017: Godfrey A, et al. Acute mixture toxicity of halogenated chemicals and their next generation counterparts on zebrafish embryos. *Chemosphere.* 2017 Aug;**181:**710-712.

Godfrey 2017a: Godfrey A, et al. Thyroid disrupting effects of halogenated and next generation chemicals on the swim bladder development of zebrafish. *Aquatic Toxicology* **193** (2017) 228-235.

Gorrochategui 2014: Gorrochategui E, et al. Perfluorinated chemicals: Differential toxicity, inhibition of aromatase activity and alteration of cellular lipids in human placental cells. *Toxicology and Applied Pharmacology* **277** (2014) 124-130.

Gorrochategui 2016: Gorrochategui E, et al. Perfluoroalkylated Substance Effects in Xenopus laevis A6 Kidney Epithelial Cells Determined by ATR-FTIR Spectroscopy and Chemometric Analysis. *Chem Res Toxicol.* 2016 May 16**;29(5):**924-32.

Goudarzi 2016: Goudarzi H, et al. Effects of prenatal exposure to perfluoroalkyl acids on prevalence of allergic diseases among 4-year-old children. *Environment International* **94** (2016) 124-132.

Goudarzi 2017: Goudarzi H, et al. Prenatal exposure to perfluoroalkyl acids and prevalence of infectious diseases up to 4 years of age. *Environment International* **104** (2017) 132-138.

Grandjean 2012: Grandjean P, et al. (2012). Serum vaccine antibody concentrations in children exposed to perfluorinated compounds. *JAMA,* **307 (4)**: 391-397.

Grandjean and Clapp 2015: Grandjean P, Clapp R. Perfluorinated Alkyl Substances: Emerging Insights Into Health Risks. *NEW SOLUTIONS: A Journal of Environmental and Occupational Health Policy*, 2015, **Vol. 25(2)** 147–163.

Grandjean 2016: Grandjean P, et al. Serum Vaccine Antibody Concentrations in Adolescents Exposed to Perfluorinated Compounds. *Environmental Health Perspectives*, Advanced publication, Accessed online: https://ehp.niehs.nih.gov/EHP275/.

Guo 2011: Guo F, et al. Perfluorinated compounds in human blood around Bohai Sea, China. *Chemosphere* **85** (2011) 156-162.

Guo 2016: Guo X, et al. Perfluorooctane sulfonate exposure causes gonadal developmental toxicity in Caenorhabditis elegans through ROS-induced DNA damage. *Chemosphere.* 2016 Jul;**155**:115-26.

Gyllenhammar 2015: Gyllenhammar I, et al. Influence of contaminated drinking water on perfluoroalkyl acid levels in human serum--A case study from Uppsala, Sweden. *Environ Res.* 2015 Jul;**140:**673-83.

Gyllenhammar 2018: Gyllenhammar I, et al. Perfluoroalkyl acid levels in first-time mothers in relation to offspring weight gain and growth. *Environmental International.* 2018 Feb; **111**: 191-199.

Hall 2012: Hall AP, et al. Liver Hypertrophy: A Review of Adaptive (Adverse and Non-adverse) Changes – Conclusions from the 3rd International ESTP Expert Workshop. *Toxicologic Pathology*, **40**:971-994, 2012.

Hallgren 2015: Hallgren S, et al. More signs of neurotoxicity of surfactants and flame retardants - Neonatal PFOS and PBDE 99 cause transcriptional alterations in cholinergic genes in the mouse CNS. *Environ Toxicol Pharmacol.* 2015 Sep;**40(2):**409-16.

Hallgren and Viberg 2016: Hallgren S, et al. Postnatal exposure to PFOS, but not PBDE 99, disturb dopaminergic gene transcription in the mouse CNS. *Environ Toxicol Pharmacol.* 2016 Jan;**41**:121-6.

Halsne 2016: Halsne R, et al. Effects of perfluorinated alkyl acids on cellular responses of MCF-10A mammary epithelial cells in monolayers and on acini formation in vitro. *Toxicol Lett.* 2016 Sep 30;**259**:95-107.

Hamm 2010: Hamm MP, et al. Maternal exposure to perfluorinated acids and fetal growth. *Journal of Exposure Science and Environmental Epidemiology* (2010) **20**, 589-597.

Han 2015: Han J, et al. Developmental retardation, reduced fecundity, and modulated expression of the defensome in the intertidal copepod Tigriopus japonicus exposed to BDE-47 and PFOS. *Aquat Toxicol.* 2015 Aug**;165**:136-43.

Hardisty 2010: Hardisty JF, et al. Pathology Working Group review and evaluation of proliferative lesions of mammary gland tissues in female rats fed ammonium perfluorooctanoate (APFO) in the diet for 2 years. *Drug and Chemical Toxicology*, 2010; **33(2):** 131-137.

Haukas 2007: Haukas M, et al. Bioaccumulation of per- and polyfluorinated alkyl substances (PFAS) in selected species from the Barents Sea food web. *Environmental Pollution* **148** (2007) 360-371.

HAZMAP 2016a: Record for CAS RN 1763-23-1. Accessed online 9/7/16, https://hazmap.nlm.nih.gov/category-details?id=6595&table=copytblagents

HAZMAP 2016b: Record for CAS RN 335-67-1. Accessed online 9/7/16, https://hazmap.nlm.nih.gov/category-details?id=6596&table=copytblagents

HC 2006: Health Canada. State of the Science Report for a Screening Health Assessment. Perfluorooctane Sulfonate (PFOS): Its Salts and Its Precursors that Contain the $C_8F_{17}SO_2$ or $C_8F_{17}SO_3$ Moiety. 2006. ISBN: 0-662-44200-8. Available online at: http://www.hc-sc.gc.ca/ewh-semt/alt_formats/hecs-sesc/pdf/contaminants/existsub/pfos-spfo/perfluorooctane_sulfonate-eng.pdf.

He 2016: He W, et al. Toxicity of perfluorooctanoic acid towards earthworm and enzymatic activities in soil. *Environ Monit Assess.* 2016 Jul;**188(7):**424.

He 2018: He X, et al. PFOA is associated with diabetes and metabolic alteration in US men: National Health and Nutrition Examination Survey 2003-2012. *The Science of the Total Environment.* 2018 Jun 1; **625**: 566-574.

Hoffman 2010: Hoffman, K, et al. Exposure to Polyfluoroalkyl Chemicals and Attention Deficit/Hyperactivity Disorder in U.S. Children 12-15 Years of Age. *Environmental Health Perspectives*, 2010 Dec; **118(12):** 1762-1767. Available online at: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3002197/

Hoke 2012: Hoke RA, et al. Comparative acute freshwater hazard assessment and preliminary PNEC development for eight fluorinated acids. *Chemosphere* **87** (2012) 725-733.

Hori 2005: Hori H, et al. Efficient Decomposition of Environmentally Persistent Perfluorocarboxylic Acids by Use of Persulfate as a Photochemical Oxidant. *Environmental Science & Technology*. 2005, **39,** 2383-2388.

Hori 2008: Hori H, et al. Efficient Decomposition of Perfluorocarboxylic Acids and Alternative Fluorochemical Surfactants in Hot Water. *Environmental Science and Technology*. 2008, **42,** 7438-7443.

Houde 2006: Houde M, et al. Biomagnification of Perfluoroalkyl Compounds in the Bottlenose Dolphin (*Tursiops truncates*) Food Web. *Environmental Science & Technology*, 2006, **40**, 4138-4144.

Houde 2016: Houde M, et al. Endocrine-disruption potential of perfluoroethylcyclohexane sulfonate (PFECHS) in chronically exposed Daphnia magna. *Environ Pollut.* 2016 Nov;**218:**950-956.

Høyer 2015: Høyer BB, et al. Anthropometry in 5- to 9-Year-Old Greenlandic and Ukrainian Children in Relation to Prenatal Exposure to Perfluorinated Alkyl Substances. *Environ Health Perspect.* 2015 Aug;**123(8):**841-6.

HSDB 2016a: Hazardous Substances Data Bank. Bethesda (MD): National Library of Medicine (US); Last Revision Date May 3, 2012; cited 2016 Sept. Perfluorooctanoic acid, CASRN: 335-67-1; Hazardous Substances Databank Number: 7137. Available from: http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB

HSDB 2016b: Hazardous Substances Data Bank. Bethesda (MD): National Library of Medicine (US); Last Revision Date May 3, 2012; cited 2016 Sept. Perfluorooctane sulfonic acid, CASRN: 1763-23-1; Hazardous Substances Databank Number: 7099. Available from: http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB

HSDB 2017a: Hazardous Substances Data Bank. Bethesda (MD): National Library of Medicine (US); Last Revision Date October 25, 2016; cited 2017 Feb. Perfluorohexanoic acid, CASRN: 307-24-4; Hazardous Substances Databank Number: 8299. Available from: http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB

HSDB 2017b: [Sigma-Aldrich; Safety Data Sheet for Nonafluorobutane-1-sulfonic acid. Product Number: 562629, Version 4.2 (Revision Date 09/08/2015). Available from, as of December 15, 2015: http://www.sigmaaldrich.com/safety-center.html] **PEER REVIEWED**

HSDB 2018: Hazardous Substances Data Bank. Bethesda (MD): National Library of Medicine (US); Last Revision Date February 8, 2013; cited 2018 Jun. Perfluoro-n-nonanoic acid, CASRN: 375-95-1; Hazardous Substances Databank Number: 8040. Available from: http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB

HSDB 2018a: Hazardous Substances Data Bank. Bethesda (MD): National Library of Medicine (US); Last Revision Date October 25, 2016; cited 2018 Jun. Perfluoroheptanoic acid, CASRN: 375-85-9; Hazardous Substances Databank Number: 8293. Available from: http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB

Hu 2016: Hu XC, et al. Detection of Poly- and Perfluoroalkyl Substances (PFASs) in U.S. Drinking Water Linked to Industrial Sites, Military Fire Training Areas, and Wastewater Treatment Plants. *Environmental Science and Technology Letters* 2016, **3**, 344-350.

Huang 2015: Huang Q, et al. Immunotoxic effects of perfluorooctane sulfonate and di(2-ethylhexyl) phthalate on the marine fish Oryzias melastigma. *Fish Shellfish Immunol.* 2015 May;**44(1):**302-6.

Hui 2017: Hui Z, et al. The impact of exposure to environmental contaminant on hepatocellular lipid metabolism. *Gene.* 2017 Jul 30;**622**:67-71.

IARC 2016: CAS No. 335-67-1, Agent = Perfluorooctanoic acid (PFOA) Group 2B, Volume 110, 2016 online, Available at: http://monographs.iarc.fr/ENG/Classification/latest_classif.php

Ikeda 1985: Ikeda T, et al. The Induction of Peroxisome Proliferation in Rat Liver by Perfluorinated Fatty Acids, Metabolically Inert Derivatives of Fatty Acids. *Journal of Biochemistry* **98**, 475-482 (1985).

Impinen 2018: Impinen I, et al. Prenatal exposure to perfluoroalkyl substances (PFASs) associated with respiratory tract infections but not allergy- and asthma-related health outcomes in childhood. *Environmental Research* **160** (2018) 518-523.

Ishibashi 2011: Ishibashi H, et al. Transactivation potencies of the Baikal seal (Pusa sibirica) peroxisome proliferator—activated receptor α by perfluoroalkyl carboxylates and sulfonates: estimation of PFOA induction equivalency factors. *Environmental Science & Technology* 2011 Apr 1; **45(7):** 3123-30.

Iwabuchi 2017: Iwabuchi K, et al. Tissue toxicokinetics of perfluoro compounds with single and chronic low doses in male rats. *The Journal of Toxicological Sciences* **42 (3),** 301-317, 2017.

Iwai and Hoberman 2014: Iwai H and Hoberman AM. Oral (Gavage) Combined Developmental and Perinatal/Postnatal Reproduction Toxicity Study of Ammonium Salt of Perfluorinated Hexanoic Acid in Mice. *International Journal of Toxicology* 2014, **33(3)** 219-237.

Jain 2013: Jain RB. Association between thyroid profile and perfluoroalkyl acids: Data from NHANES 2007-2008. *Environmental Research* **126** (2013) 51-59.

Jain 2018: Jain RB. Contribution of diet and other factors to the observed levels of selected perfluoroalkyl acids in serum among US children aged 3-11 years. *Environmental Research*. 2018 Feb; **161**:268-275.

Janesick 2016: Janesick AS, et al. On the Utility of ToxCast™ and ToxPi as Methods for Identifying New Obesogens. *Environmental Health Perspectives* **124**: 1214-1226 (2016).

Jantzen 2016: Jantzen CE, et al. Behavioral, morphometric, and gene expression effects in adult zebrafish (Danio rerio) embryonically exposed to PFOA, PFOS, and PFNA. *Aquat Toxicol.* 2016 Nov;**180**:123-130.

Jantzen 2016a: Jantzen CE, et al. PFOS, PFNA, and PFOA sub-lethal exposure to embryonic zebrafish have different toxicity profiles in terms of morphometrics, behavior and gene expression. *Aquat Toxicol.* 2016 Jun;**175:**160-70.

Jeddy 2017: Jeddy Z, et al. Prenatal concentrations of Perfluoroalkyl substances and early communication development in British girls. *Early Human Development* **109** (2017) 15-20.

Jensen 2015: Jensen TK, et al. Association between perfluorinated compound exposure and miscarriage in Danish pregnant women. *PLoS One.* 2015 Apr 7;**10(4):**e0123496. Erratum in *PLoS One*. 2016;**11(2):**e0149366.

Jensen 2018: Jensen RC, et al. Perfluoroalkyl substances and glycemic status in pregnant Danish women: The Odense Child Cohort. *Environment International* **116** (2018) 101-107.

Jeong 2016: Jeong TY, et al. Multigenerational effect of perfluorooctane sulfonate (PFOS) on the individual fitness and population growth of Daphnia magna. *Sci Total Environ.* 2016 Nov 1;**569-570**:1553-60.

Jiang 2016a: Jiang Q, et al. Perfluorooctanoic acid-induced toxicity in primary cultures of chicken embryo cardiomyocytes. *Environ Toxicol.* 2016 Nov;**31(11):**1580-1590.

Jiang 2016b: Jiang Q, et al. Changes in the levels of l-carnitine, acetyl-l-carnitine and propionyl-l-carnitine are involved in perfluorooctanoic acid induced developmental cardiotoxicity in chicken embryo. *Environ Toxicol Pharmacol.* 2016 Dec;**48**:116-124.

Joensen 2009: Joensen UN, et al. (2009). Do perfluoroalkyl compounds impair human semen quality? *Environmental Health Perspectives*, **117**: 923–927.

Kang 2016: Kang H, et al. Elevated levels of short carbon-chain PFCAs in breast milk among Korean women: Current status and potential challenges. *Environmental Research* **148** (2016) 351-359.

Kariuki 2017: Kariuki MN, et al. Analysis of Sub-Lethal Toxicity of Perfluorooctane Sulfonate (PFOS) to Daphnia magna Using ^{1}H Nuclear Magnetic Resonance-Based Metabolomics. *Metabolites.* 2017 Apr 14;**7(2).** pii: E15.

Karlsen 2017: Karlsen M, et al. Early-life exposures to persistent organic pollutants in relation to overweight in preschool children. *Reprod Toxicol.* 2017 Mar;**68**:145-153.

Karnjanapiboonwong 2018: Karnjanapiboonwong A, et al. Perfluoroalkylsulfonic and carboxylic acids in earthworms (Eisenia fetida): Accumulation and effects results from spiked soils at PFAS concentrations bracketing environmental relevance. *Chemosphere*. 2018 May; **199:** 168-173.

Karrman 2010: Karrman A, et al. Biomonitoring perfluorinated compounds in Catalonia, Spain: concentrations and trends in human liver and milk samples. *Environ Sci Pollut Res* (2010) **17**:750-758.

Kataria 2015: Kataria A, et al. Association between perfluoroalkyl acids and kidney function in a cross-sectional study of adolescents. *Environ Health.* 2015 Nov 21;**14**:89.

Keiter 2016: Keiter S, et al. Does perfluorooctane sulfonate (PFOS) act as chemosensitizer in zebrafish embryos? *Sci Total Environ.* 2016 Apr 1;**548-549**:317-24.

Kelly 2009: Kelly BC, et al. Perfluoroalkyl Contaminants in an Arctic Marine Food Web: Trophic Magnification and Wildlife Exposure. *Environmental Science & Technology* 2009, **43**, 4037-4043.

Kelly 2009a: Supporting information for "Kelly BC, et al. Perfluoroalkyl Contaminants in an Arctic Marine Food Web: Trophic Magnification and Wildlife Exposure. *Environmental Science & Technology* 2009, **43**, 4037-4043".

Kerger 2011: Kerger BD, et al. Tenuous dose-response correlations for common disease states: case study of cholesterol and perfluorooctanoate/sulfonate (PFOA/PFOS) in the C8 Health Project. *Drug and Chemical Toxicology*, 2011; **34(4):** 396-404.

Kersten and Stienstra 2017: Kersten S and Stienstra R. The role and regulation of the peroxisome proliferator activated receptor alpha in human liver. *Biochimie* **136** (2017) 75-84.

Khalil 2018: Khalil N, et al. Perfluoroalkyl substances, bone density, and cardio-metabolic risk factors in obese 8-12 year old children: A pilot study. *Environmental Research* 2018 Jan; **160**; 314-321.

Kim 2015: Kim M, et al. Perfluoroheptanoic acid affects amphibian embryogenesis by inducing the phosphorylation of ERK and JNK. *International Journal of Molecular Medicine*, December 2015, **36 (6),** 1693-1700.

Kim 2016: Kim DH, et al. Perfluoroalkyl substances in serum from South Korean infants with congenital hypothyroidism and healthy infants--Its relationship with thyroid hormones. *Environ Res.* 2016 May;**147:**399-404.

Kim 2016a: Kim JH, et al. The modifying effect of vitamin C on the association between perfluorinated compounds and insulin resistance in the Korean elderly: a double-blind, randomized, placebo-controlled crossover trial. *Eur J Nutr.* 2016 Apr;**55(3):**1011-20.

Kim and Oh 2014: Kim Un-Jung and Oh Jeong-Eun. Tetrabromobisphenol A and hexabromocyclododecane flame retardants in infant-mother paired serum samples, and their relationships with thyroid hormones and environmental factors. *Environmental Pollution* **184** (2014) 193-200.

Kirchgeorg 2016: Kirchgeorg T, et al. Seasonal accumulation of persistent organic pollutants on a high altitude glacier in the Eastern Alps. *Environmental Pollution* **218** (2016) 804-812.

Kirkpatrick 2005: Kirkpatrick JB. A combined 28-day repeated dose oral toxicity study with the reproduction/developmental toxicity screening test of perfluorohexanoic acid and 1H, 1H, 2H, 2H-tridecafluoro-1-octanol in rats, with recovery. Study Number WIL-534001, WIL Research Laboratories. September 2, 2005.

Kjeldsen 2013: Kjeldsen LS and Bonefeld-Jorgensen, EC. Perfluorinated compounds affect the function of sex hormone receptors. *Environmental Science and Pollution Research* (2013) **20:** 8031-8044.

Klaunig 2015: Klaunig JE, et al. Evaluation of the chronic toxicity and carcinogenicity of perfluorohexanoic acid (PFHxA) in Sprague-Dawley rats. *Toxicol Pathol.* 2015 Feb;**43(2):**209-20.

Kleszczynski 2007: Kleszczynski K, et al. Analysis of structure-cytotoxicity in vitro relationship (SAR) for perfluorinated carboxylic acids. *Toxicology in Vitro* **21** (2007) 1206-1211.

Knobeloch 2012: Knobeloch L, et al. Perfluoroalkyl chemicals in vacuum cleaner dust from 39 Wisconsin homes. *Chemosphere*. 2012 Aug; **88(7):** 779-83.

Knox 2011: Knox SS, et al. Perfluorocarbon exposure, gender and thyroid function in the C8 Health Project. *The Journal of Toxicological Sciences*, **36(4),** 403-410, 2011.

Kobayashi 2018: Kobayashi K, et al. Bioaccumulation Patterns of Perfluoroalkyl Acids in an Estuary of the Ariake Sea, Japan. *Bulletin of Environmental Contamination and Toxicology*, April 2018, **100 (4),** 536-540.

Koskela 2016: Koskela A, et al. Effects of developmental exposure to perfluorooctanoic acid (PFOA) on long bone morphology and bone cell differentiation. *Toxicol Appl Pharmacol.* 2016 Jun 15;**301**:14-21.

Kudo 2002: Kudo N, et al. Sex hormone-regulated renal transport of perfluorooctanoic acid. *Chemico-Biological Interactions* **139** (2002) 301-316.

Labadie and Chevreuil 2011: Labadie P and Chevreuil M. Partitioning behavior of perfluorinated alkyl contaminants between water, sediment and fish in the Orge River (nearby Paris, France). *Environmental Pollution* **159** (2011) 391-397.

Lam 2016: Lam JC, et al. Perfluoroalkyl Substances (PFASs) in Marine Mammals from the South China Sea and Their Temporal Changes 2002-2014: Concern for Alternatives of PFOS? *Environ Sci Technol.* 2016 Jul 5;**50(13):**6728-36.

Larson 2018: Larson ES, et al. Modeling avian exposures to perfluoroalkyl substances in aquatic habitats impacted by historical aqueous film forming foam releases. *Chemosphere.* 2018 Jun; **201**: 335-341.

Latala 2009: Latala A, et al. Acute toxicity assessment of perfluorinated carboxylic acids towards the Baltic microalgae. *Environmental Toxicology and Pharmacology* **28** (2009) 167-171.

Lau 2004: Lau C, et al. The developmental toxicity of perfluoroalkyl acids and their derivatives. *Toxicology and Applied Pharmacology* **198** (2004) 231-241.

Lau 2007: Lau C, et al. Perfluoroalkyl Acids: A Review of Monitoring and Toxicological Findings. *Toxicological Sciences* **99(2),** 366-394 (2007).

Lee 2014: Lee YJ, et al. PFHxS induces apoptosis of neuronal cells via ERK1/2-mediated pathway. *Chemosphere* **94** (2014) 121-127.

Lee 2015: Lee YY, et al. Prenatal exposure to the contaminant perfluorooctane sulfonate elevates lipid peroxidation during mouse fetal development but not in the pregnant dam. *Free Radic Res.* 2015;**49(8):**1015-25.

Lee 2015a: Lee CK, et al. Effects of perfluorooctane sulfuric acid on placental PRL-family hormone production and fetal growth retardation in mice. *Mol Cell Endocrinol.* 2015 Feb 5;**401**:165-72.

Lee 2017: Lee JW, et al. Multi-generational xenoestrogenic effects of Perfluoroalkyl acids (PFAAs) mixture on Oryzias latipes using a flow-through exposure system. *Chemosphere.* 2017 Feb;**169**:212-223.

Lee 2018: Lee YA, et al. The serum concentrations of perfluoroalkyl compounds were inversely associated with growth parameters in 2-year old children. *The Science of the Total Environment.* 2018 Jul 1; **628-629:** 226-232.

Lee 2018a: Lee S, et al. Perfluoroalkyl substances (PFASs) in breast milk from Korea: Time-course trends, influencing factors, and infant exposure. *Science of the Total Environment.* 2018 Jan 15; **612**:286-292.

Lee and Kim 2018: Lee JK and Kim SH. Correlation between mast cell-mediated allergic inflammation and length of perfluorinated compounds. *Journal of Toxicology and Environmental Health, Part A.* 2018; **81(9)** 302-313.

Lee and Viberg 2013: Lee I and Viberg H. A single neonatal exposure to perfluorohexane sulfonate (PFHxS) affects the levels of important neuroproteins in the developing mouse brain. *NeuroToxicology* **37** (2013) 190-196.

Lee and Yang 2014: Lee YJ, et al. NMDA receptor-mediated ERK 1 / 2 pathway is involved in PFHxS-induced apoptosis of PC12 cells. *Science of the Total Environment* **491-492** (2014) 227-234.

Lee and Yang 2016: Lee YJ, et al. AMP-activated protein kinase is involved in perfluorohexanesulfonate-induced apoptosis of neuronal cells. *Chemosphere* **149** (2016) 1-7.

Lenters 2016: Lenters V, et al. Prenatal Phthalate, Perfluoroalkyl Acid, and Organochlorine Exposures and Term Birth Weight in Three Birth Cohorts: Multi-Pollutant Models Based on Elastic Net Regression. *Environ Health Perspect.* 2016 Mar;**124(3):**365-72.

Letcher 2015: Letcher RJ, et al. Perfluorinated sulfonate and carboxylate compounds and precursors in herring gull eggs from across the Laurentian Great Lakes of North America: Temporal and recent spatial comparisons and exposure implications. *Science of the Total Environment* **538** (2015) 468-477.

Levin 2016: Levin M, et al. Immunomodulatory effects of exposure to polychlorinated biphenyls and perfluoroalkyl acids in East Greenland ringed seals (Pusa hispida). *Environ Res.* 2016 Nov;**151**:244-250.

Li 2015: Li K, et al. In Vivo Bioavailability and In Vitro Bioaccessibility of Perfluorooctanoic Acid (PFOA) in Food Matrices: Correlation Analysis and Method Development. *Environmental Science & Technology,* 2015**, 49,** 150-158.

Li 2015a: Li Y, et al. Comparison of waterborne and in ovo nanoinjection exposures to assess effects of PFOS on zebrafish embryos. *Environ Sci Pollut Res Int.* 2015 Feb;**22(3):**2303-10.

Li 2015b: Li W, et al. PFOS Disturbs BDNF-ERK-CREB Signalling in Association with Increased MicroRNA-22 in SH-SY5Y Cells. *Biomed Res Int.* 2015**;2015**:302653.

Li 2016: Li X, et al. In utero perfluorooctane sulfonate exposure causes low body weights of fetal rats: A mechanism study. *Placenta.* 2016 Mar;**39**:125-33.

Li 2017: Li M, et al. Isomers of perfluorooctanesulfonate (PFOS) in cord serum and birth outcomes in China: Guangzhou Birth Cohort Study. *Environ Int.* 2017 May;**102**:1-8.

Li 2017a: Li Z, et al. Evaluation of PFOS-mediated neurotoxicity in rat primary neurons and astrocytes cultured separately or in co-culture. *Toxicol In Vitro.* 2017 Feb;**38:**77-90.

Li 2017b: Li K, et al. Molecular mechanisms of PFOA-induced toxicity in animals and humans: Implications for health risks. *Environ Int.* 2017 Feb**;99**:43-54.

Li 2017c: Li Y, et al. Perfluorinated alkyl substances in serum of the southern Chinese general population and potential impact on thyroid hormones. *Scientific Reports* **7**, 43380 (2017).

Li 2018: Li Y, et al. A critical analysis of published data to discern the role of soil and sediment properties in determining sorption of per and polyfluoroalkyl substances (PFASs). *The Science of the Total Environment.* 2018 Jul 1; **628-629**: 110-120.

Liang 2017: Liang R, et al. Effects of Perfluorooctane sulfonate on immobilization, heartbeat, reproductive and biochemical performance of Daphnia magna. *Chemosphere.* 2017 Feb;**168**:1613-1618.

Lieder 2009a: Lieder PH, et al. A two-generation oral gavage reproduction study with potassium perfluorobutanesulfonate (K+PFBS) in Sprague Dawley rats. *Toxicology* **259** (2009) 33-45.

Lieder 2009b: Lieder PH, et al. Toxicological evaluation of potassium perfluorobutanesulfonate in a 90-day oral gavage study with Sprague-Dawley rats. *Toxicology* **255** (2009) 45-52.

Lien 2016: Lien GW, et al. Perfluoroalkyl substances in cord blood and attention deficit/hyperactivity disorder symptoms in seven-year-old children. *Chemosphere* **156** (2016) 118-127.

Liew 2015: Liew Z, et al. (2015). Attention Deficit/Hyperactivity Disorder and Childhood Autism in Association with Prenatal Exposure to Perfluoroalkyl Substances: A Nested Case-Control Study in the Danish National Birth Cohort. *Environmental Health Perspectives* 123:367-373.

Lind 2014: Lind L, et al. Circulating levels of perfluoroalkyl substances and prevalent diabetes in the elderly. *Diabetologia* (2014) **57**:473-479.

Liu 2015: Liu H, et al. Toxic effects of perfluorononanoic acid on the development of Zebrafish (Danio rerio) embryos. *J Environ Sci (China).* 2015 Jun 1**;32**:26-34.

Liu 2015a: Liu W, et al. Involvement of NRF2 in Perfluorooctanoic Acid-Induced Testicular Damage in Male Mice. *Biol Reprod.* 2015 Aug;**93(2):**41.

Liu 2016: Liu G, et al. Toxicity of perfluorooctane sulfonate and perfluorooctanoic acid to Escherichia coli: Membrane disruption, oxidative stress, and DNA damage induced cell inactivation and/or death. *Environ Pollut.* 2016 Jul;**214**:806-15.

Liu 2018: Liu G, et al. Perfluoroalkyl substances and changes in body weight and resting metabolic rate in response to weight-loss diets: A prospective study. *PLoS Medicine* **15(2):** e1002502.

Liu & Gin 2018: Liu C and Gin K. Immunotoxicity in Green Mussels Under Perfluoroalkyl Substance (PFAS) Exposure: Reversible Response and Response Model Development. *Environmental Toxicology and Chemistry* **37(4),** 1138-1145, 2018.

Loi 2011: Loi E, et al. Trophic Magnification of Poly- and Perfluorinated Compounds in a Subtropical Food Web. *Environmental Science & Technology*, 2011, **45**, 5506-5513.

López-Doval 2015: López-Doval S, et al. Possible role of serotonin and neuropeptide Y on the disruption of the reproductive axis activity by perfluorooctane sulfonate. *Toxicol Lett.* 2015 Mar 4;**233(2):**138-47.

Lopez-Espinosa 2012: Lopez-Espinosa MJ, et al. Thyroid Function and Perfluoroalkyl Acids in Children Living Near a Chemical Plant. *Environmental Health Perspectives*, **120**:1036-1041 (2012).

Lorenzo 2016: Lorenzo M, et al. Perfluoroalkyl substances in Breast milk, infant formula and baby food from Valencian Community (Spain). *Environmental Nanotechnology, Monitoring & Management* **6** (2016) 108-115.

Louis 2015: Louis GM, et al. Perfluorochemicals and human semen quality: the LIFE study. *Environ Health Perspect.* 2015 Jan;**123(1):**57-63.

Louis 2016: Louis GM, et al. Preconception perfluoroalkyl and polyfluoroalkyl substances and incident pregnancy loss, LIFE Study. *Reprod Toxicol*. 2016 Oct;**65**:11-17.

Loveless 2009: Loveless SE, et al. Toxicological evaluation of sodium perfluorohexanoate. *Toxicology* **264** (2009) 32-44.

Lu 2016: Lu Y, et al. Perfluorooctanoic acid disrupts the blood-testis barrier and activates the TNFα/p38 MAPK signaling pathway in vivo and in vitro. *Arch Toxicol.* 2016 Apr;**90(4):**971-83.

Lu 2017: Lu Y, et al. Perfluorooctanoic acid affects endocytosis involving clathrin light chain A and microRNA-133b-3p in mouse testes. *Toxicol Appl Pharmacol.* 2017 Mar 1;**318**:41-48.

Lu and Cheng 2010: Lu Changxue and Cheng Sheue-Yann. Thyroid hormone receptors regulate adipogenesis and carcinogenesis via crosstalk signaling with peroxisome proliferator-activated receptors*. Journal of Molecular Endocrinology* 2010 March; **44(3):** 143-154.

Luebker 2002: Luebker DJ, et al. Interactions of fluorochemicals with rat liver fatty acid-binding protein. *Toxicology* **176** (2002) 175-185.

Lunardi 2016: Lunardi D, et al. Transcriptomic analysis of bottlenose dolphin (Tursiops truncatus) skin biopsies to assess the effects of emerging contaminants. *Mar Environ Res.* 2016 Mar;**114**:74-9.

Lundin 2009: Lundin JI, et al. Ammonium Perfluorooctanoate Production and Occupational Mortality. *Epidemiology* 2009; **20(6)**: 921–928.

Lv 2015: Lv QY, et al. In vivo immunotoxicity of perfluorooctane sulfonate in BALB/c mice: Identification of T-cell receptor and calcium-mediated signaling pathway disruption through gene expression profiling of the spleen. *Chem Biol Interact.* 2015 Oct 5;**240**:84-93.

Lynch 2018: Lynch JM, et al. Feasibility of using the National Marine Mammal Tissue Bank for retrospective exploratory studies of perfluorinated alkyl acids. *Science of the Total Environment* **624** (2018) 781-789.

MA DPH 2016: Massachusetts Department of Public Health. PFOS and PFOA in Drinking Water fact sheet. July 2016. Accessed online at: http://www.mass.gov/eohhs/docs/dph/environmental/exposure/pfas-drink-wtr-fact-sheet.pdf

Mahapatra 2017: Mahapatra CT, et al. Comparative in vitro toxicity assessment of perfluorinated carboxylic acids. *J Appl Toxicol.* 2017 Jun;**37(6):**699-708.

Maisonet 2012: Maisonet M, et al. (2012). Maternal concentrations of polyfluoroalkyl compounds during pregnancy and fetal and postnatal growth in Brit-ish girls. *Environ Health Perspect.* **120(10):**1432-1437.

Maisonet 2015: Maisonet M, et al. Prenatal Exposure to Perfluoroalkyl Acids and Serum Testosterone Concentrations at 15 Years of Age in Female ALSPAC Study Participants. *Environ Health Perspect.* 2015 Dec;**123(12):**1325-30.

Mak 2009: Mak YL, et al. Perfluorinated compounds in tap water from China and several other countries. *Environmental Science & Technology* 2009 Jul 1; **43(13):** 4824-9.

Martin 2007: Martin MT, et al. Toxicogenomic Study of Triazole Fungicides and Perfluoroalkyl Acids in Rat Livers Predicts Toxicity and Categorizes Chemicals Based on Mechanisms of Toxicity. *Toxicological Sciences* **97(2),** 595-613 (2007).

Martin and Mabury 2003: Martin JW, Mabury SA, et al. Bioconcentration and Tissue Distribution of Perfluorinated Acids in Rainbow Trout (*Oncorhynchus Mykiss*). *Environmental Toxicology and Chemistry*, **Vol. 22, No. 1**, pp. 196-204, 2003.

Mashayekhi 2015: Mashayekhi V, et al. Mechanistic approach for the toxic effects of perfluorooctanoic acid on isolated rat liver and brain mitochondria. *Hum Exp Toxicol.* 2015 Oct;**34(10):**985-96.

Mattsson 2015: Mattsson A, et al. Metabolic Profiling of Chicken Embryos Exposed to Perfluorooctanoic Acid (PFOA) and Agonists to Peroxisome Proliferator-Activated Receptors. *PLoS One.* 2015 Dec 1;**10(12):**e0143780.

Mattsson 2015a: Mattsson K, et al. Levels of perfluoroalkyl substances and risk of coronary heart disease: Findings from a population-based longitudinal study. Environmental Research 142 (2015) 148-154.

Mayilswami 2016: Mayilswami S, et al. Gene expression profile changes in Eisenia fetida chronically exposed to PFOA. *Ecotoxicology.* 2016 May;**25(4):**759-69.

McMillian 2004: McMillian M, et al. Inverse gene expression patterns for macrophage activating hepatotoxicants and peroxisome proliferators in rat liver. *Biochemical Pharmacology* **67** (2004) 2141-2165.

Melzer 2010: Melzer D, et al. Association between Serum Perfluorooctanoic Acid (PFOA) and Thyroid Disease in the U.S. National Health and Nutrition Examination Survey. *Environmental Health Perspectives* **118**:686-692 (2010).

Meng 2016: Meng L, et al. Toxicity and bioaccumulation of copper in *Limnodrilus hoffmeisteri* under different pH values: Impacts of perfluorooctane sulfonate. *J Hazard Mater.* 2016 Mar 15;**305**:219-28.

Miao 2015: Miao C, et al. Perfluorooctanoic acid enhances colorectal cancer DLD-1 cells invasiveness through activating NF-κB mediated matrix metalloproteinase-2/-9 expression. *Int J Clin Exp Pathol.* 2015 Sep 1;**8(9):**10512-22.

MI DCH 2015: Michigan Department of Community Health. Final Report U.S. EPA – Great Lakes Restoration Initiative Project, May 28, 2015. Grant Number: GL-00E01122. Project Title: Measuring Perfluorinated Compounds in Surface Waters and Fish Reporting Period Covered: September 1, 2012 – February 28, 2015,

Principal Investigator: Linda D. Dykema, Ph.D. Accessed online at: http://www.michigan.gov/documents/mdch/MDCH_GL-00E01122-0_Final_Report_493494_7.pdf.

Midgett 2015: Midgett K, et al. *In vitro* evaluation of the effects of perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) on IL-2 production in human T-cells. *Journal of Applied Toxicology* 2015 May; **35(5):** 459-465.

Minatoya 2017: Minatoya M, et al. Association of prenatal exposure to perfluoroalkyl substances with cord blood adipokines and birth size: The Hokkaido Study on environment and children's health. *Environ Res.* 2017 Jul;**156**:175-182.

Mitro 2016: Mitro SD, et al. Consumer Product Chemicals in Indoor Dust: A Quantitative Meta-analysis of U.S. Studies. *Environmental Science & Technology*, 2016, **50**, 10661-10672.

MN DPH 2011: Minnesota Department of Health. 2011 Health Risk Limit for Groundwater, Perfluorobutane sulfonate. Web Publication Date: March 21, 2011. Accessed online at: http://www.health.state.mn.us/divs/eh/risk/guidance/gw/pfbs.pdf.

MN DPH 2011a: Minnesota Department of Health. 2011 Health Risk Limit for Groundwater, Perfluorobutyrate. Web Publication Date: March 21, 2011. Accessed online at: http://www.health.state.mn.us/divs/eh/risk/guidance/gw/pfba.pdf.

Mobacke 2018: Mobacke I, et al. Circulation levels of perfluoroalkyl substances and left ventricular geometry of the heart in the elderly. *Environmental International* 2018 Apr 2; **115**:295-300.

Mora 2018: Mora AM, et al. Early life exposure to per- and polyfluoroalkyl substances and mid-childhood lipid and alanine aminotransferase levels. *Environment International* **111** (2018) 1-13.

Mulkiewicz 2007: Mulkiewicz E, et al. Evaluation of the acute toxicity of perfluorinated carboxylic acids using eukaryotic cell lines, bacteria and enzymatic assays. *Environmental Toxicology and Pharmacology* **23** (2007) 279-285.

Muller 2016: Muller CE, et al. Competing Mechanisms for Perfluoroalkyl Acid Accumulation in Plants Revealed Using an Arabidopsis Model System. *Environmental Toxicology and Chemistry*, **35(5),** pp. 1138-1147, 2016.

Naile 2012: Naile JE, et al. Transcriptional effects of perfluorinated compounds in rat hepatoma cells. *Chemosphere* **86** (2012) 270-277.

Naile 2013: Naile JE, et al. Distributions and bioconcentration characteristics of perfluorinated compounds in environmental samples collected from the west coast of Korea. *Chemosphere* **90** (2013) 387-394.

Navarro 2016: Navarro I, et al. Bioaccumulation of emerging organic compounds (perfluoroalkyl substances and halogenated flame retardants) by earthworm in biosolid amended soils. *Environmental Research* **149** (2016) 32-39.

NEWMOA 2016: PFAS Toxicology: A focus on metabolics. Presentation by Angela Slitt Ph.D. at NEWMOA Workshop, May 25, 2016.

Ng and Hungerbuhler 2014: Ng, CA and Hungerbuhler K. Bioaccumulation of Perfluorinated Alkyl Acids: Observations and Models. *Environmental Science & Technology* 2014, **48**, 4637-4648.

Ng and Hungerbuhler 2014a: Ng, CA and Hungerbuhler K. Supporting Information for "Bioaccumulation of Perfluorinated Alkyl Acids: Observations and Models". *Environmental Science & Technology* 2014, **48**, 10 pages.

NICNAS 2016: Australian Government, Department of Health, National Industrial Chemicals Notification and Assessment Scheme (NICNAS). Environment Tier II Assessment for Short-Chain Perfluorocarboxylic Acids and their Direct Precursors, Last update December 5, 2016. Accessed online at: https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-assessments/tier-ii-environment-assessments/short-chain-perfluorocarboxylic-acids-and-their-direct-precursors#PhysicalandChemicalProperties.

NICNAS 2016a: Australian Government, Department of Health, National Industrial Chemicals Notification and Assessment Scheme (NICNAS). Environment Tier II Assessment for Short-Chain Perfluorocarboxylic Acids and their Direct Precursors, Last update April 19, 2017. Accessed online at: https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-assessments/tier-ii-environment-assessments/short-chain-perfluorocarboxylic-acids-and-their-direct-precursors#PhysicalandChemicalProperties.

NICNAS 2017: Australian Government, Department of Health, National Industrial Chemicals Notification and Assessment Scheme (NICNAS). HUMAN HEALTH TIER II ASSESSMENT FOR Short chain perfluorocarboxylic acids and their direct precursors. Accessed online at: https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-group-assessment-report?assessment_id=1686.

NICNAS 2017a: Australian Government, Department of Health, National Industrial Chemicals Notification and Assessment Scheme (NICNAS). Environment Tier II Assessment for Perfluorobutanesulfonic Acid and its Direct Precursors, Last update April 26, 2017. Accessed online at: https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-assessments/tier-ii-environment-assessments/perfluorobutanesulfonic-acid-and-its-direct-precursors.

NICNAS 2017b: Australian Government, Department of Health, National Industrial Chemicals Notification and Assessment Scheme (NICNAS). HUMAN HEALTH TIER II ASSESSMENT FOR Perfluorobutanesulfonate (PFBS) and its direct precursors. Accessed online at: https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-group-assessment-report?assessment_id=1429#cas-A_375-73-5.

NICNAS 2018: Australian Government, Department of Health, National Industrial Chemicals Notification and Assessment Scheme (NICNAS). HUMAN HEALTH TIER II ASSESSMENT FOR Perfluoroheptanoic acid (PFHpA) and its direct precursors. Accessed online at: https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-group-assessment-report?assessment_id=1689.

NICNAS 2018a: Australian Government, Department of Health, National Industrial Chemicals Notification and Assessment Scheme (NICNAS). Environment Tier II Assessment for Perfluoroheptanoic acid (PFHpA) and its direct precursors, Last updated May 15, 2018. Accessed online at: https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-assessments/tier-ii-environment-assessments/perfluoroheptanoic-acid-pfhpa-and-its-direct-precursors.

Nilsson 2010: Nillsson H, et al. A time trend study of significantly elevated perfluorocarboxylate levels in humans after using fluorinated ski wax. *Environmental Science & Technology*, 2010, **44**: 2150-2155.

Nilsson 2013: Nilsson H, et al. Biotransformation of fluorotelomer compound to perfluorocarboxylates in humans. *Environmental International* **51** (2013) 8-12.

NJ 2015: New Jersey Drinking Water Quality Institute – Health Effects Subcommittee. Health-Based Maximum Contaminant Level Support Document: Perfluorononanoic Acid (PFNA). June 22, 2015. Accessed online, 2/21/17: http://www.state.nj.us/dep/watersupply/pdf/pfna-health-effects.pdf.

NJ 2015a: New Jersey Drinking Water Quality Institute. Maximum Contaminant Level Recommendations for Perfluorononanoic Acid in Drinking Water: Basis and Background. Page 4. July 1, 2015. Accessed online: http://www.nj.gov/dep/watersupply/pdf/pfna-recommend-final.pdf.

NJ 2016: New Jersey Drinking Water Quality Institute – Health Effects Subcommittee. Presentation on Health-Based Maximum Contaminant Level Support Document: Perfluorooctanoic Acid (PFOA). September 22, 2016. Accessed online: http://www.nj.gov/dep/watersupply/pdf/pfoa-hb-talk.pdf.

Nobels 2010: Nobels I, et al. Application of a multiple endpoint bacterial reporter assay to evaluate toxicological relevant endpoints of perfluorinated compounds with different functional groups and varying chain length. *Toxicol In Vitro.* 2010 Sept; **24(6):** 1768-74.

Nordén 2016: Nordén M, et al. Developmental toxicity of PFOS and PFOA in great cormorant (Phalacrocorax carbo sinensis), herring gull (Larus argentatus) and chicken (Gallus gallus domesticus). *Environ Sci Pollut Res Int.* 2016 Jun**;23(11):**10855-62.

Norwegian EA 2017: Norwegian Environment Agency. Investigation of Sources to PFBS in the Environment. Report Number M-759|2017. May 15, 2017. Accessed online at: http://www.miljodirektoratet.no/Documents/publikasjoner/M759/M759.pdf.

Nouhi 2018: Nouhi S, et al. Interactions of perfluoroalkyl substances with a phospholipid bilayer studied by neutron reflectometry. *Journal of Colloid and Interface Science.* 2018 Feb 1; **511**:474-481.

NTP 2003: U.S. EPA NTP Proposal to conduct studies on a series of perfluorinated chemicals. Correspondence from Charles M. Auer to Scott Masten, August 7, 2003. Accessed online at: https://ntp.niehs.nih.gov/ntp/htdocs/chem_background/exsumpdf/perfluorinatedcmpds_508.pdf

NTP 2016: NTP Monograph: Immunotoxicity Associated with Exposure to Perfluorooctanoic Acid (PFOA) or Perfluorooctane Sulfonate (PFOS), September 2016. Accessed online at: https://ntp.niehs.nih.gov/ntp/ohat/pfoa_pfos/pfoa_pfosmonograph_508.pdf.

NTP 2016a: Genetic Toxicology tests for Perfluorooctanoic acid; Page last updated 8/26/16, Accessed online, 9/9/16: http://ntp.niehs.nih.gov/testing/status/agents/ts-m910070.html

NTP 2016b: Genetic Toxicology tests for Perfluorooctane sulfonate; Page last updated 8/26/16, Accessed online, 9/9/16: http://ntp.niehs.nih.gov/testing/status/agents/ts-m040004.html

NTP TOX-97: Perfluorohexanoic acid (307-24-4), Perfluorooctanoic acid (335-67-1), Perfluorononanoic acid (375-95-1), Perfluorodecanoic acid (335-76-2), WY-14643 (50892-23-4). Chemical Effects in Biological Systems (CEBS). Research Triangle Park, NC (USA): National Toxicology Program (NTP). Accessed 2018-06-12. https://manticore.niehs.nih.gov/cebssearch/publication/TOX-97.

Ochoa-Herrera 2016: Ochoa-Herrera V, et al. Microbial toxicity and biodegradability of perfluorooctane sulfonate (PFOS) and shorter chain perfluoroalkyl and polyfluoroalkyl substances (PFASs). *Environ Sci Process Impacts.* 2016 Sep 14;**18(9):**1236-1246.

OECD 2002: Organization for Economic Co-operation and Development. Co-Operation on Existing Chemicals: Hazard Assessment of Perfluorooctane Sulfonate (PFOS) and Its Salts. November 21, 2002. Available online at: http://www.oecd.org/env/ehs/risk-assessment/2382880.pdf

OECD 2007: Organization for Economic Co-operation and Development. Environment Directorate – Joint Meeting of the Chemicals Committee and The Working Party on Chemicals, Pesticides and Biotechnology: Lists of PFOS, PFAS, PFOA, PFCA, Related Compounds and Chemicals That May Degrade to PFCA (As revised in 2007). August 21, 2007. Available online at: http://www.oecd.org/officialdocuments/publicdisplaydocumentpdf/?doclanguage=en&cote=env/jm/mono(2006)15.

OECD 2013: OECD/UNEP Global PFC Group, Synthesis paper on per- and polyfluorinated chemicals (PFCs), Environment, Health and Safety, Environment Directorate, OECD. Paris 2013. Accessed online: http://www.oecd.org/env/ehs/risk-management/PFC_FINAL-Web.pdf.

OECD 2016: Organization for Economic Co-operation and Development. Webpage on 'Perfluorooctane Sulfonate (PFOS) and related chemical products'. Updated 2016. Available online at: http://www.oecd.org/chemicalsafety/risk-management/perfluorooctanesulfonatepfosandrelatedchemicalproducts.htm

Ohmori 2003: Ohmori K, et al. Comparison of the toxicokinetics between perfluorocarboxylic acids with different carbon chain length. *Toxicology* **184** (2003) 135-140.

Oldham 2012: Oldham ED, et al. Disruption of Phosphatidylcholine Monolayers and Bilayers by Perfluorobutane Sulfonate. *J Phy Chem B.* 2012 August 23; **116(33):** 9999-10007.

Olsen 2003: Olsen GW, et al. Human Donor Liver and Serum Concentrations of Perfluorooctanesulfonate and Other Perfluorochemicals. *Environmental Science & Technology*, 2003, **37**, 888-891.

Olsen 2003a: Olsen GW, et al . Epidemiologic Assessment of Worker Serum Perfluorooctanesulfonate (PFOS) and Perfluorooctanoate (PFOA) Concentrations and Medical Surveillance Examinations. *Journal of Occupational and Environmental Medicine,* **45(3),** March 2003, pgs. 260-270.

Olsen 2007: Olsen GW, et al. (2007). Half-life of serum elimination of perfluorooctanesulfonate, perfluorohexanesulfonate, and perfluorooctanoate in retired fluorochemical production workers. *Environ Health Perspect,* **115:** 1298–1305.

Olsen 2009: Olsen GW, et al. A comparison of the pharmacokinetics of perfluorobutanesulfonate (PFBS) in rats, monkeys, and humans. *Toxicology* **256** (2009). 65-74.

Olsen & Zobel 2007: Assessment of lipid, hepatic, and thyroid parameters with serum perfluorooctanoate (PFOA) concentrations in fluorochemical production workers. *Int Arch Occup Environ Health* (2007) **81**:231-246.

Olsen & Ley 2015: Olsen, GW and Ley, CA. Prostate Cancer and PFOA – Letter to the editor. *Journal of Occupational and Environmental Medicine*, **57(6),** June 2015, page e60.

Oulhote 2016: Oulhote Y, et al. Behavioral difficulties in 7-year old children in relation to developmental exposure to perfluorinated alkyl substances. *Environment International* **97** (2016) 237-245.

Pablos 2015: Pablos MV, et al. Acute and chronic toxicity of emerging contaminants, alone or in combination, in Chlorella vulgaris and Daphnia magna. *Environ Sci Pollut Res Int.* 2015 Apr;**22(7):**5417-24.

Parolini 2016: Parolini M, et al. Potential toxicity of environmentally relevant perfluorooctane sulfonate (PFOS) concentrations to yellow-legged gull Larus michahellis embryos. *Environ Sci Pollut Res Int.* 2016 Jan;**23(1):**426-37.

Pattanasuttichonlakul 2014: Pattanasuttichonlakul J, et al. Contamination of Perfluorooctane Sulfonated (PFOS) and Perfluorooctanoic Acid (PFOA) in Air. *International Journal of Advances in Agricultural & Environmental Engineering*, **1(1);** 2014, 66-71.

Perez 2013: Perez F, et al. Accumulation of perfluoroalkyl substances in human tissues. *Environment International* **59** (2013) 354-362.

Preston 2018: Preston EV, et al. Maternal Plasma per- and Polyfluoroalkyl Substance Concentrations in Early Pregnancy and Maternal and Neonatal Thyroid Function in a Prospective Birth Cohort: Project Viva (USA). *Environmental Health Perspectives.* 2018 Feb 27; **126 (2):** 027013.

Qian 2010: Qian Y, et al. Perfluorooctane sulfonate (PFOS) induces reactive oxygen species (ROS) production in human microvascular endothelial cells: role in endothelial permeability. *J Toxicol Environ Health A.* 2010; **73(12):** 819-836.

Qiu 2016: Qiu L, et al. Perfluorooctane sulfonate (PFOS) disrupts blood-testis barrier by down-regulating junction proteins via p38 MAPK/ATF2/MMP9 signaling pathway. *Toxicology.* 2016 Dec 12;**373**:1-12.

Qu 2016: Qu JH, et al. Perfluorooctane sulfonate-induced testicular toxicity and differential testicular expression of estrogen receptor in male mice. *Environ Toxicol Pharmacol.* 2016 Jul;**45**:150-7.

Quist 2015: Quist EM, et al. Hepatic Mitochondrial Alteration in CD-1 Mice Associated with Prenatal Exposures to Low Doses of Perfluorooctanoic Acid (PFOA). *Toxicol Pathol.* 2015 Jun;**43(4):**546-57.

Rainieri 2017: Rainieri S, et al. Toxic effects of perfluorinated compounds at human cellular level and on a model vertebrate. *Food Chem Toxicol.* 2017 Jun;**104**:14-25.

Ren 2015: Ren XM, et al. Structure-activity relations in binding of perfluoroalkyl compounds to human thyroid hormone T3 receptor. *Arch Toxicol* (2015) **89**: 233-242.

Ren 2016: Ren XM, et al. Binding interactions of perfluoroalkyl substances with thyroid hormone transport proteins and potential toxicological implications. *Toxicology* **366-367** (2016) 32-42.

Rich 2014: Rich CD, et al. Bioaccumulation of Perfluoroalkyl Acids by Earthworms (*Eisenia fetida*) Exposed to Contaminated Soils. *Environmental Science & Technology*, 2014/2015, **49**, 881-888.

Rioux 2017: Comparison of neurotoxicity for 4 perfluorinated compounds (PFBA, PFBS, PFHxA, and PFHxS) submitted by Board Member Christine Rioux, January 9, 2018.

Rockwell 2013: Rockwell CE, et al. Acute Immunotoxic Effects of Perfluorononanoic Acid (PFNA) in C57BL/6 Mice. *Clin Exp Pharmacol.* 2013; **Suppl 4:**S4-002.

Rockwell 2017: Rockwell CE, et al. Persistent alterations in immune cell populations and function from a single dose of perfluorononanoic acid (PFNA) in C57BL/6 mice. *Food and Chemical Toxicology* **100** (2017) 24-33.

Rokoff 2018: Rokoff LB, et al. Cumulative exposure to environmental pollutants during early pregnancy and reduced fetal growth: the Project Viva cohort. *Environmental Health.* 2018 Feb 20; **17(1):** 19.

Rosenmai 2016: Rosenmai AK, et al. Fluorinated alkyl substances and technical mixtures used in food paper-packaging exhibit endocrine-related activity in vitro. *Andrology,* July 2016, **4(4),** 662-672.

Rosenmai 2017: Rosenmai AK, et al. Relationship between peroxisome proliferator-activated receptor alpha activity and cellular concentration of 14 perfluoroalkyl substances in HepG2 cells. *Journal of Applied Toxicology* 2018; **38**: 219-226.

Rosenmai 2017a: Rosenmai AK, et al. An effect-directed strategy for characterizing emerging chemicals in food contact materials made from paper and board. *Food and Chemical Toxicology* **106** (2017) 250-259.

RTECS 2016a: RTECS© Registry of Toxic Effects of Chemical Substances. National Institute for Occupational Safety and Health, Cincinnati, OH. ToxPlanet, a division of Timberlake Ventures, Inc. Cornelius, NC. 2016. Record for Perfluorooctanoic acid, CAS RN 335-67-1, Reviewed July 2016.

RTECS 2016b: RTECS© Registry of Toxic Effects of Chemical Substances. National Institute for Occupational Safety and Health, Cincinnati, OH. ToxPlanet, a division of Timberlake Ventures, Inc. Cornelius, NC. 2016. Record for Perfluorooctane sulfonic acid, CAS RN 1763-23-1, Reviewed July 2016.

Ruan 2014: Ruan T, et al. 6:2 Fluorotelomer iodide in vitro metabolism by rat liver microsomes: comparison with [1,2-(14)C] 6:2 fluorotelomer alcohol. *Chemosphere*. 2014 Oct; **112**:34-41.

Ruhl and Everhart 2014: Ruhl CE and Everhart JE. Fatty liver indices in the multiethnic United States National Health and Nutrition Examination Survey. *Alimentary Pharmacology and Therapeutics* 2015; **41**: 65-76.

Rush 2018: Rush EL, et al. Oral contraceptive use as a determinant of plasma concentrations of perfluoroalkyl substances among women in the Norwegian Mother and Child Cohort (MoBa) study. *Environment International.* 2018 Mar; **112:** 156-164.

Rushing 2017: Rushing BR, et al. **Evaluation of the immunomodulatory effects of 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-propanoate in C57BL/6 mice.** *Toxicol Sci.* 2017 **156(1)** Mar 1, 179-189. (On order through ILL 9/18/17)

Russell 2013: Russell MH, et al. Elimination kinetics of perfluorohexanoic acid in humans and comparison with mouse, rat and monkey. *Chemosphere* **93** (2013) 2419-2425.

Russell 2015: Russell MH, et al. Inhalation and oral toxicokinetics of 6:2 FTOH and its metabolites in mammals. *Chemosphere*. 2015 Feb; **120**:328-35.

Sagiv 2018: Sagiv SK, et al. Early-Pregnancy Plasma Concentrations of Perfluoroalkyl Substances and Birth Outcomes in Project Viva: Confounded by Pregnancy Hemodynamics? *American Journal of Epidemiology.* 2018 Apr 1; **187(4):** 793-802.

Saikat 2013: Saikat S, et al. The impact of PFOS on health in the general population: a review. *Environmental Science Processed & Impacts*, 2013, **15**, 329-335.

Salgado 2015: Salgado R, et al. Initial study on the possible mechanisms involved in the effects of high doses of perfluorooctane sulfonate (PFOS) on prolactin secretion. *Food Chem Toxicol.* 2015 Sep;**83**:10-6.

Salgado 2016: Salgado R, et al. Perfluorooctane sulfonate (PFOS) exposure could modify the dopaminergic system in several limbic brain regions. *Toxicol Lett.* 2016 Jan 5;**240(1):**226-35.

San-Segundo 2016: San-Segundo L, et al. Alterations in gene expression levels provide early indicators of chemical stress during Xenopus laevis embryo development: A case study with perfluorooctane sulfonate (PFOS). *Ecotoxicol Environ Saf.* 2016 May;**127**:51-60.

Sant 2017: Sant KE, et al. Embryonic exposures to perfluorooctanesulfonic acid (PFOS) disrupt pancreatic organogenesis in the zebrafish, Danio rerio. *Environ Pollut.* 2017 Jan;**220(Pt B):**807-817.

Schaider 2014: Schaider, LA, et al. Pharmaceuticals, perfluorosurfactants, and other organic wastewater compounds in public drinking water wells in a shallow sand and gravel aquifer. *Science of the Total Environment* **468-469** (2014) 384-393.

Schaider 2016: Schaider, LA, et al. Septic systems as sources of organic wastewater compounds in domestic drinking water wells in a shallow sand and gravel aquifer. *Science of the Total Environment* **547** (2016) 470-481.

Schaider 2017: Schaider, LA, et al. Fluorinated Compounds in U.S. Fast Food Packaging. *Environmental Science & Technology Letters*, 2017, **4**, 105-111.

Scheringer 2014: Scheriner M, et al. Helsingor Statement on poly- and perfluorinated alkyl substances (PFASs). *Chemosphere* **114** (2014) 337-339.

Seacat 2002: Seacat AM, et al. Subchronic Toxicity Studies on Perfluorooctanesulfonate Potassium Salt in Cynomolgus Monkeys. *Toxicological Sciences* **68**, 249-264 (2002).

Seo 2018: Seo SH, et al. Influence of exposure to perfluoroalkyl substances (PFASs) on the Korean general population: 10-year trend and health effects. *Environment International*. 2018 Apr; **113**:149-161.

Sheng 2016: Sheng N, et al. Interaction of perfluoroalkyl acids with human liver fatty acid-binding protein. *Arch Toxicol.* 2016 Jan;**90(1):**217-27. doi: 10.1007/s00204-014-1391-7. Epub 2014 Nov 5.

Shin 2011: Shin H-M, et al. Retrospective Exposure Estimation and Predicted versus Observed Serum Perfluorooctanoic Acid Concentrations for Participants in the C8 Health Project. *Environmental Health Perspectives* **119**:1760-1765 (2011).

Sigma-Aldrich 2014: Sigma-Aldrich Safety Data Sheet for Undecafluorohexanoic acid, CAS # 307-24-4. Revision Date 06/26/2014.

Sigma-Aldrich 2014a: Sigma-Aldrich Safety Data Sheet for Tridecafluorohexane-1-sulfonic acid potassium salt, CAS # 3871-99-6. Revision Date 12/22/2014.

Slotkin 2008: Slotkin, TA, et al. Developmental Neurotoxicity of Perfluorinated Chemicals Modeled in Vitro. *Environmental Health Perspectives* **116:**716-722 (2008).

Sonthithai 2016: Sonthithai P, et al. Perfluorinated chemicals, PFOS and PFOA, enhance the estrogenic effects of 17β-estradiol in T47D human breast cancer cells. *J Appl Toxicol.* 2016 Jun;**36(6):**790-801.

Soto 1995: Soto AM, et al. The E-SCREEN Assay as a Tool to Identify Estrogens: An Update on Estrogenic Environmental Pollutants. *Environmental Health Perspectives* **103 (Suppl 7):** 113-122 (1995).

Steenland 2013: Steenland K, et al. Ulcerative Colitis and Perfluorooctanoic Acid (PFOA) in a Highly Exposed Population of Community Residents and Workers in the Mid-Ohio Valley. *Environmental Health Perspectives* **121:** 900-905 (2013).

Steenland 2015: Steenland K, et al. A cohort incidence study of workers exposed to perfluorooctanoic acid (PFOA). *Occupational and Environmental Medicine* 2015; **72**:373-380.

Steenland and Woskie 2012: Cohort Mortality Study of Workers Exposed to Perfluorooctanoic Acid. *American Journal of Epidemiology*, 2012; **176(10),** 909-917.

Stein and Savitz 2011: Stein CR and Savitz DA. Serum Perfluorinated Compound Concentration and Attention Deficit/Hyperactivity Disorder in Children 5-18 Years of Age. *Environmental Health Perspectives* **119:** 1466-1471 (2011).

Su 2016: Su, et al. Home produced eggs: An important pathway of human exposure to perfluorobutanoic acid (PFBA) and perfluorooctanoic acid (PFOA) around a fluorochemical industrial park in China. *Environment International* **101** (2017) 1-6.

Sun 2016: Sun M, et al. Legacy and Emerging Perfluoroalkyl Substances Are Important Drinking Water Contaminants in the Cape Fear River Watershed of North Carolina. *Environmental Science & Technology Letters,* 2016, **3(12),** 415-419.

Sundström 2011: Sundström M, et al. A temporal trend study (1972-2008) of perfluorooctanesulfonate, perfluorohexanesulfonate, and perfluorooctanoate in pooled human milk samples from Stockholm, Sweden. *Environment International* **37** (2011) 178-183.

Sundström 2012: Sundström M, et al. Comparative pharmacokinetics of perfluorohexanesulfonate (PFHxS) in rats, mice, and monkeys. *Reprod Toxicol.* 2012; **33:** 441-451.

Surma 2015: Surma M, et al. Determination of perfluorinated sulfonate and perfluorinated acids in tissues of free-living European beaver (castor fiber L.) by d-SPE/ micro-UHPLC-MS/MS. *Ecotoxicol Environ Saf.* 2015 Oct;**120:**436-44.

Tang 2017: Tang LL, et al. Mitochondrial toxicity of perfluorooctane sulfonate in mouse embryonic stem cell-derived cardiomyocytes. *Toxicology.* 2017 May 1;**382**:108-116.

Tao 2008: Tao L, et al. Perfluorinated Compounds in Human Breast Milk from Several Asian Countries, and in Infant Formula and Dairy Milk from the United States. *Environmental Science & Technology*, 2008, **42**, 8597-8602.

Tarazona 2015: Tarazona JV, et al. Toxicokinetics of perfluorooctane sulfonate in birds under environmentally realistic exposure conditions and development of a kinetic predictive model. *Toxicol Lett.* 2015 Jan 22;**232(2):**363-8.

Taylor 2014: Taylor KW, et al. Polyfluoroalkyl Chemicals and Menopause among Women 20-65 Years of Age (NHANES). *Environmental Health Perspectives*, **122 (2):** 145-150.

TEDX 2016: Record for Perfluorooctanoic acid, Accessed online 9/8/16 at: http://www.endocrinedisruption.com/endocrine-disruption/tedx-list-of-potential-endocrine-disruptors/chemicalsearch?

TEDX 2017: Record for Perfluorobutanoic acid, Accessed online 8/25/17 at: https://endocrinedisruption.org/interactive-tools/tedx-list-of-potential-endocrine-disruptors/search-the-tedx-list

TEDX 2017a: Record for Perfluorobutanesulfonate, Accessed online 8/25/17 at: https://endocrinedisruption.org/interactive-tools/tedx-list-of-potential-endocrine-disruptors/search-the-tedx-list

TEDX 2017b: Record for Perfluorohexanoic acid, Accessed online 8/25/17 at: https://endocrinedisruption.org/interactive-tools/tedx-list-of-potential-endocrine-disruptors/search-the-tedx-list

TEDX 2017c: Record for Perfluorohexanesulfonate, Accessed online 8/25/17 at: https://endocrinedisruption.org/interactive-tools/tedx-list-of-potential-endocrine-disruptors/search-the-tedx-list

Timmermann 2014: Timmermann CAG, et al. Adiposity and Glycemic Control in Children Exposed to Perfluorinated Compounds. *J Clin Endocrinol Metab* **99**: E608-E614, 2014).

ToxServices 2016: Perfluorohexanoic Acid (CAS # 307-24-4) GreenScreen® for Safer Chemicals (GreenScreen®) Assessment. Prepared by: ToxServices LLC, June 3, 2016.

Tsuda 2016: Tsuda S. Differential toxicity between perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA). *J Toxicol Sci.* 2016;**41(Special):**SP27-SP36.

Tucker 2015: Tucker DK, et al. The mammary gland is a sensitive pubertal target in CD-1 and C57Bl/6 mice following perinatal perfluorooctanoic acid (PFOA) exposure. *Reprod Toxicol.* 2015 Jul;**54**:26-36.

TURI 2016: PFOA Cancer Risk Summary Table for 1/11/17 meeting.

TURI 2016: PBT Notes for PFOS and PFOA.

TURI 2016a: Draft Perfluorooctanoic acid (PFOA) EHS Summary. Updated 11/25/16. Updated 1/6/17.

TURI 2016b: Draft Perfluorooctane sulfonate (PFOS) EHS Summary. Updated 11/25/16. Updated 1/9/17.

TURI 2017: PBT Notes for PFOS and PFOA, December 2016, Circulated at the January 11, 2017 meeting.

TURI 2017: Other Effects Notes for PFOS/PFOA, drafted for the January 11, 2017 meeting.

TURI 2017a: Draft Perfluorohexanoic acid (PFHxA) EHS Summary. Updated 5/22/17.

TURI 2017b: Draft Perfluorohexane sulfonic acid (PFHxS) EHS Summary. Updated 5/22/17.

TURI 2017c: Draft Perfluorobutyric acid (PFBA) EHS Summary. Updated 5/22/17.

TURI 2017d: Draft Perfluorobutane sulfonic acid (PFBS) EHS Summary. Updated 5/22/17.

Ulhaq 2015: Ulhaq M, et al. Tissue uptake, distribution and elimination of (14)C-PFOA in zebrafish (Danio rerio). *Aquat Toxicol.* 2015 Jun;**163**:148-57.

UNEP 2006: United Nations Environment Programme. Report of the Persistent Organic Pollutants Review Committee on the work of its second meeting – Addendum: Risk profile on perfluorooctane sulfonate. November 2006. Accessed online at: http://chm.pops.int/Convention/POPsReviewCommittee/Chemicals/tabid/243/Default.aspx.

UNEP 2012: United Nations Environment Programme. Technical paper on the identification and assessment of alternatives to the use of perfluorooctane sulfonic acid in open applications. August 2012. Accessed online at: http://chm.pops.int/Default.aspx?tabid=2801.

UNEP 2015a: United Nations Environment Programme. Proposal to list pentadecafluorooctanoic acid (CAS No: 335-67-1, PFOA, perfluorooctanoic acid), its salts and PFOA-related compounds in Annexes A, B, and/or C to the Stockholm Convention on Persistent Organic Pollutants. June 2015. Accessed online at: http://chm.pops.int/Convention/POPsReviewCommittee/Chemicals/tabid/243/Default.aspx.

UNEP 2015b: United Nations Environment Programme. POPRC-11/4: Pentadecafluorooctanoic acid (CAS No: 335-67-1, PFOA, perfluorooctanoic acid), its salts and PFOA-related compounds, Annex E: Risk Profile. Accessed online at: http://chm.pops.int/Convention/POPsReviewCommittee/Chemicals/tabid/243/Default.aspx.

Upham 2009: Upham BL, et al. Structure-Activity-Dependent Regulation of Cell Communication by Perfluorinated Fatty Acids using in Vivo and in Vitro Model Systems. *Environmental Health Perspectives* **117**:545-551 (2009).

U.S. EPA 2014: Health Effects Document for Perfluorooctanoic acid (PFOA). February 2014. Accessed online, 11/25/16, at: https://peerreview.versar.com/epa/pfoa/pdf/Health-Effects-Document-for-Perfluorooctanoic-Acid-(PFOA).pdf

U.S. EPA 2014a: U.S. Environmental Protection Agency. Provisional Peer-Reviewed Toxicity Values for Perfluorobutane Sulfonate (CASRN 375-73-5) and Related Compound Potassium Perfluorobutane Sulfonate (CASRN 29420-49-3). July 17, 2014. Accessed online at: https://hhpprtv.ornl.gov/.

U.S. EPA 2015: U.S. Environmental Protection Agency. 40 CFR Part 721. Long-Chain Perfluoroalkyl Carboxylate and Perfluoroalkyl Sulfonate Chemical Substances; Significant New Use Rule – Proposed Rule. Filed January 20, 2015.

U.S. EPA 2016: U.S. Environmental Protection Agency. Fact Sheet PFOA & PFOS Drinking Water Health Advisories. Document # EPA 800-F-16-003. May 2016. Accessed online at: https://www.epa.gov/sites/production/files/2016-06/documents/drinkingwaterhealthadvisories_pfoa_pfos_updated_5.31.16.pdf

U.S. EPA 2016a: U.S. Environmental Protection Agency. Health Effects Support Document for Perfluorooctane Sulfonate (PFOS). Document # EPA 822-R-16-002. May 2016. Accessed online at: https://www.epa.gov/sites/production/files/2016-05/documents/pfos_hesd_final_508.pdf

U.S. EPA 2016b: U.S. Environmental Protection Agency. Health Effects Support Document for Perfluorooctanoic acid (PFOA). Document # EPA 822-R-16-003. May 2016. Accessed online at: https://www.epa.gov/sites/production/files/2016-05/documents/pfoa_hesd_final_508.pdf

Van den Dungen 2015: Van den Dungen MW, et al. Steroid hormone related effects of marine persistent organic pollutants in human H295R adrenocortical carcinoma cells. *Toxicol In Vitro.* 2015 Jun;**29(4):**769-78.

Vanden Heuvel 2013: VandenHeuvel JP. Comment on "Associations between PFOA, PFOS and changes in the expression of genes involved in cholesterol metabolism in humans" by Fletcher et al., *Environment International* **57-58** (2013) 2-10". *Environmental International* **61** (2013) 150-153.

Van Esterik 2016: Van Esterik JC, et al. Programming of metabolic effects in C57BL/6JxFVB mice by in utero and lactational exposure to perfluorooctanoic acid. *Arch Toxicol.* 2016 Mar;**90(3):**701-15.

van Otterdijk 2007a: van Otterdijk, F.M. Repeated Dose 28-Day Oral Toxicity Study with MTDID-8391 By Daily Gavage in the Rat, Followed by a 21-day Recovery Period. NOTOX Project 470677. 3M study no. 06-226. Study completion date, June 21, 2007.

van Otterdijk 2007b: van Otterdijk, F.M. Repeated Dose 90-Day Oral Toxicity Study with MTDID-8391 By Daily Gavage in the Rat, Followed by a 3-Week Recovery Period. NOTOX Project 484492. 3M study no. 06-398. Study completion date, December 21, 2007.

Vélez 2015: Vélez MP, et al. Maternal exposure to perfluorinated chemicals and reduced fecundity: the MIREC study. *Hum Reprod.* 2015 Mar;**30(3):**701-9.

Verner 2015: Verner MA, et al. Associations of Perfluoroalkyl Substances (PFAS) with Lower Birth Weight: An Evaluation of Potential Confounding by Glomerular Filtration Rate Using a Physiologically Based Pharmacokinetic Model (PBPK). *Environ Health Perspect.* 2015 Dec;**123(12):**1317-24.

Viberg 2013: Viberg H, et al. Adult dose-dependent behavioral and cognitive disturbances after a single neonatal PFHxS dose. *Toxicology* **304** (2013) 185-191.

Vicente 2015: Vicente J, et al. Perfluoroalkyl and polyfluoroalkyl substances in entire clutches of Audouin's gulls from the ebro delta. *Chemosphere* **199** (2015) S62-S68.

Vieira 2013: Vieira VM, et al. Perfluorooctanoic Acid Exposure and Cancer Outcomes in a Contaminated Community: A Geographic Analysis. *Environmental Health Perspectives* **121**:318-323 (2013).

Vieira 2013a: Vieira VM, et al. Assessing the Spatial Distribution of Perfluorooctanoic Acid Exposure via Public Drinking Water Pipes Using Geographic Information Systems. *The Korean Society of Environmental Health and Toxicology*, **28**, 2013.

Vongphachan 2011: Vongphachan V, et al. Effects of Perfluoroalkyl Compounds on mRNA Expression Levels of Thyroid Hormone-Responsive Genes in Primary Cultures of Avian Neuronal Cells. *Toxicological Sciences* **120(2),** 392-402 (2011).

Vuong 2016: Vuong AM, et al. Prenatal polybrominated diphenyl ether and perfluoroalkyl substance exposures and executive function in school-age children. *Environ Res.* 2016 May;**147**:556-64.

Wang 2012: Wang C, et al. The *in Vitro* Estrogenic Activities of Polyfluorinated Iodine Alkanes. *Environmental Health Perspectives* **120:**119-125 (2012).

Wang 2015: Wang Y, et al. Prenatal exposure to perfluoroalkyl substances and children's IQ: The Taiwan maternal and infant cohort study. *International Journal of Hygiene and Environmental Health* **218** (2015) 639-644.

Wang 2015a: Wang F, et al. Prenatal and neonatal exposure to perfluorooctane sulfonic acid results in aberrant changes in miRNA expression profile and levels in developing rat livers. *Environ Toxicol.* 2015 May-Jun;**30(6**):712-23.

Wang 2015b: Wang Y, et al. Effects of developmental perfluorooctane sulfonate exposure on spatial learning and memory ability of rats and mechanism associated with synaptic plasticity. *Food Chem Toxicol.* 2015 Feb;**76**:70-6.

Wang 2015c: Wang C, et al. Reactive oxygen species mediate nitric oxide production through ERK/JNK MAPK signaling in HAPI microglia after PFOS exposure. *Toxicol Appl Pharmacol.* 2015 Oct 15;**288(2):**143-51.

Wang 2016: Wang et al. Identification, Tissue Distribution, and Bioaccumulation Potential of Cyclic Perfluorinated Sulfonic Acids Isomers in an Airport Impacted Ecosystem. *Environ. Sci. Technol*. 2016, 50, 10923−10932.

Wang 2016a: Wang Y, et al. Prenatal Exposure to Perfluorocarboxylic Acids (PFCAs) and Fetal and Postnatal Growth in the Taiwan Maternal and Infant Cohort Study. *Environ Health Perspect.* 2016 Nov;**124(11):**1794-1800.

Wang 2016b: Wang Y, et al. The interaction of perfluorooctane sulfonate with hemoglobin: Influence on protein stability. *Chem Biol Interact.* 2016 Jul 25;**254**:1-10.

Wang 2016c: Wang B, et al. Perfluoroalkyl and polyfluoroalkyl substances in cord blood of newborns in Shanghai, China: Implications for risk assessment. *Environment International* **97** (2016) 7-14.

Wang 2017: Wang B, et al. Perfluoroalkyl substances and endometriosis-related infertility in Chinese women. *Environ Int.* 2017 May;**102**:207-212.

Wang 2017a: Wang S, et al. The presence of MWCNTs reduces developmental toxicity of PFOS in early life stage of zebrafish. *Environ Pollut.* 2017 Mar;**222**:201-209.

Wang 2017b: Wang Z, et al. A Never-Ending Story of Per- and Polyfluoroalkyl Substances (PFASs)? *Environmental Science & Technology*, 2017, **51**, 2508-2518.

Watkins 2015: Watkins AM, et al. The effects of perfluorinated chemicals on adipocyte differentiation in vitro**.** *Mol Cell Endocrinol.* 2015 Jan 15;**400**:90-101.

Webster 2014: Webster GM, et al. Associations between Perfluoroalkyl acids (PFASs) and maternal thyroid hormones in early pregnancy: A population-based cohort study. *Environmental Research* **133** (2014) 338-347.

Weiss 2009: Weiss JM, et al. Competitive Binding of Poly- and Perfluorinated Compounds to the Thyroid Hormone Transport Protein Transthyretin. *Toxicological Sciences* **109(2),** 206-216 (2009).

Wen 2015: Wen B, et al. Bioavailability of perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) in biosolids-amended soils to earthworms (*Eisenia fetida*). *Chemosphere* **118** (2015) 361-366.

White 2011: White SS, et al. Endocrine disrupting properties of perfluorooctanoic acid. *The Journal of Steroid Biochemistry and Molecular Biology.* **127 (1-2)** October 2011, 16-26.

Wimsatt 2016: Wimsatt J, et al. Oral perfluorooctane sulfonate (PFOS) lessens tumor development in the APCmin mouse model of spontaneous familial adenomatous polyposis. *BMC Cancer* (2016) **16**: 942. 10pgs.

Winquist and Steenland 2014: Modeled PFOA Exposure and Coronary Artery Disease, Hypertension, and High Cholesterol in Community and Worker Cohorts. *Environmental Health Perspectives*, December 2014, **122(12),** 1299-1305.

Wolf 2008: Wolf CJ, et al. Activation of Mouse and Human Peroxisome Proliferator – Activated Receptor Alpha by Perfluoroalkyl Acids of Different Functional Groups and Chain Lengths. *Toxicological Sciences* **106(1),** 162-171 (2008).

Wolf 2010: Wolf CJ, et al. Developmental Effects of Perfluorononanoic Acid in the Mouse Are Dependent on Peroxisome Proliferator-Activated Receptor-Alpha. *PPAR Research*, **Volume 2010**, Article ID 282896.

Wolf 2012: Wolf CJ, et al. Activation of mouse and human peroxisome-proliferator-activated receptor-alpha (PPARα) by perfluoroalkyl acids (PFAAs): Further investigation of C4-C12 compounds. *Reproductive Toxicology* **33(4)** July 2012, 546-551.

Woskie 2012: Woskie SR, et al. Retrospective Exposure Assessment of Perfluorooctanoic Acid Serum Concentrations at a Fluoropolymer Manufacturing Plant. *Ann. Occup. Hyg.* **56 (9)** pp. 1025-1037. 2012.

Xia 2015: Xia JG, et al. Behavior, metabolism and swimming physiology in juvenile Spinibarbus sinensis exposed to PFOS under different temperatures. *Fish Physiol Biochem.* 2015 Oct;**41(5):**1293-304.

Xiao 2017: Xiao, Feng. Emerging poly- and perfluoroalkyl substances in the aquatic environment: A review of current literature. *Water Research* **124** (2017) 482-495.

Xing 2016: Xing J, et al. Toxicity assessment of perfluorooctane sulfonate using acute and subchronic male C57BL/6J mouse models. *Environ Pollut.* 2016 Mar;**210**:388-96.

Xu 2015: Xu B, et al. Effect of perfluorooctane sulfonate on pluripotency and differentiation factors in mouse embryoid bodies. *Toxicology.* 2015 Feb 3;**328**:160-7.

Xu 2016: Xu J, et al. PFOS induces adipogenesis and glucose uptake in association with activation of Nrf2 signaling pathway. *Toxicology and Applied Pharmacology* **290** (2016) 21-30.

Xu 2017: Xu C, et al. Estrogen receptor beta mediates hepatotoxicity induced by perfluorooctane sulfonate in mouse. *Environ Sci Pollut Res Int.* 2017 May;**24(15):**13414-13423.

Yahia 2016: Yahia D, et al. 8-Hydroxy-2'-deoxyguanosine as a biomarker of oxidative DNA damage induced by perfluorinated compounds in TK6 cells. *Environ Toxicol.* 2016 Feb;**31(2):**192-200.

Yan 2015: Yan S, et al. Perfluorooctanoic acid exposure for 28 days affects glucose homeostasis and induces insulin hypersensitivity in mice. *Sci Rep.* 2015 Jun 12;**5**:11029.

Yan 2017: Yan S, et al. High perfluorooctanoic acid exposure induces autophagy blockage and disturbs intracellular vesicle fusion in the liver. *Arch Toxicol.* 2017 Jan;**91(1):**247-258.

Yang 2015: Yang X, et al. Accumulation and phytotoxicity of perfluorooctanoic acid in the model plant species Arabidopsis thaliana. *Environ Pollut.* 2015 Nov;**206**:560-6.

Yang 2015a: Yang J, et al. Perfluorooctane sulfonate mediates microglial activation and secretion of TNF-α through Ca^{2+}-dependent PKC-NF-κB signaling. *Int Immunopharmacol.* 2015 Sep;**28(1):**52-60.

Yang 2017: Yang M, et al. Influence of perfluorooctanoic acid on proteomic expression and cell membrane fatty acid of Escherichia coli. *Environ Pollut.* 2017 Jan;**220(Pt A):**532-539.

Yang 2018: Yang Q, et al. Association of serum levels of perfluoroalkyl substances (PFASs) with the metabolic syndrome (MetS) in Chinese male adults: A cross-sectional study. *Science of the Total Environment* **621** (2018) 1542-1549.

Yao 2016: Yao X, et al. Perfluorooctane Sulfonate Induces Autophagy-Dependent Apoptosis through Spinster 1-Mediated lysosomal-Mitochondrial Axis and Impaired Mitophagy. *Toxicol Sci.* 2016 Sep;**153(1):**198-211.

Ye 2018: Ye X, et al. Per- and polyfluoroalkyl substances in sera from children 3 to 11 years of age participating in the National Health and Nutrition Examination Survey 2013-2014. *International Journal of Hygiene and Environmental Health*. 2018 Jan; **221(1):**9-16.

Yeung 2013: Yeung LWY, et al. Profiles of perfluoroalkyl substances in the liver and serum of patients with liver cancer and cirrhosis in Australia. *Ecotoxicology and Environmental Safety* **96** (2013) 139-146.

Yu 2015: Yu N, et al. Distribution of perfluorooctane sulfonate isomers and predicted risk of thyroid hormonal perturbation in drinking water. *Water Res.* 2015 Jun 1;**76**:171-80.

Yu 2016: Yu N, et al. Effects of Perfluorooctanoic Acid on Metabolic Profiles in Brain and Liver of Mouse Revealed by a High-throughput Targeted Metabolomics Approach. *Sci Rep.* 2016 Apr 1;**6**:23963.

Yuan 2017: Yuan Z, et al. Effects of perfluorooctanoic acid and perfluorooctane sulfonate on acute toxicity, superoxide dismutase, and cellulase activity in the earthworm Eisenia fetida. *Environ Sci Pollut Res Int.* 2017 Jun 20.

Zeng 2015: Zeng HC, et al. Prenatal exposure to PFOS caused mitochondia-mediated apoptosis in heart of weaned rat. *Environ Toxicol.* 2015 Sep;**30(9):**1082-90.

Zhang 2011: Zhang W, et al. Perfluorinated chemicals in blood of residents in Wenxhou, China. *Ecotoxicology and Environmental Safety* **74** (2011) 1787-1793.

Zhang 2013: Zhang T, et al. Distribution of Poly- and Perfluoroalkyl Substances in Matched Samples from Pregnant Women and Carbon Chain Length Related Maternal Transfer. *Environmental Science & Technology*, 2013, **47(14),** 7974-7981.

Zhang 2013a: Zhang Y, et al. Biomonitoring of Perfluoroalkyl Acids in Human Urine and Estimates of Biological Half-Life. *Environmental Science & Technology*, 2013, **47**, 10619-10627.

Zhang 2015: Zhang F, et al. Effects of perfluorooctane sulfonate on the immune responses and expression of immune-related genes in Chinese mitten-handed crab Eriocheir sinensis. *Comp Biochem Physiol C Toxicol Pharmacol.* 2015 Jun-Jul;**172-173**:13-8.

Zhang 2015a: Zhang N, et al. Reduction of progesterone, estradiol and hCG secretion by perfluorooctane sulfonate via induction of apoptosis in human placental syncytiotrophoblasts. *Placenta.* 2015 May;**36(5):**575-80.

Zhang 2015b: Zhang DY, et al. Analysis of apoptosis induced by perfluorooctane sulfonates (PFOS) in mouse Leydig cells in vitro. *Toxicol Mech Methods.* 2015 Jan**;25(1):**21-5.

Zhang 2016: Zhang Q, et al. Effects of perfluorooctane sulfonate and its alternatives on long-term potentiation in the hippocampus CA1 region of adult rats in vivo. *Toxicology Research* 2016, **5,** 539-546.

Zhang 2016a: Zhang YY, et al. Protein profiles of cardiomyocyte differentiation in murine embryonic stem cells exposed to perfluorooctane sulfonate. *J Appl Toxicol.* 2016 May;**36(5):**726-40.

Zhang 2016b: Zhang L, et al. Editor's Highlight: Perfluorooctane Sulfonate-Choline Ion Pair Formation: A Potential Mechanism Modulating Hepatic Steatosis and Oxidative Stress in Mice. *Toxicol Sci.* 2016 Sep;**153(1):**186-97.

Zhang 2016c: Zhang Q, et al. Developmental perfluorooctane sulfonate exposure results in tau hyperphosphorylation and β-amyloid aggregation in adults rats: Incidence for link to Alzheimer's disease. *Toxicology.* 2016 Mar 10;**347-349**:40-6.

Zhang 2016d: Zhang W, et al. Zebrafish reproductive toxicity induced by chronic perfluorononanoate exposure. *Aquat Toxicol.* 2016 Jun;**175**:269-76.

Zhang 2017: Zhang YM, et al. Poly- and perfluorinated compounds activate human pregnane X receptor. *Toxicology.* 2017 Apr 1;**380**:23-29.

Zhang 2018: Zhang H, et al. Prenatal and childhood perfluoroalkyl substances exposures and children's reading skills at ages 5 and 8 years. *Environmental International.* 2018 Feb; **111**: 224-231.

Zhang 2018a: Zhang Y, et al. Alteration of Bile Acid and Cholesterol Biosynthesis and Transport by Perfluorononanoic Acid (PFNA) in Mice. *Toxicological Sciences* **162(1)** 1 March 2018, 225-233.

Zhao 2010: Zhao B, et al. Inhibition of human and rat 3β-hydroxysteroid dehydrogenase and 17β-hydroxysteroid dehydrogenase 3 activities by perfluoroalkylated substances. *Chemico-Biological Interactions* **188** (2010) 38-43.

Zhao 2012: Zhao Z, et al. Distribution and long-range transport of polyfluoroalkyl substances in the Arctic, Atlantic Ocean and Antarctic coast. *Environmental Pollution* **170** (2012) 71-77.

Zhao 2013: Zhao S, et al. Bioaccumulation of perfluoroalkyl carboxylates (PFCAs) and perfluoroalkane sulfonates (PFSAs) by earthworms (*Eisenia fetida*) in soil. *Environmental Pollution* **179** (2013) 45-52.

Zhao 2014: Zhao S, et al. Mutual impacts of wheat (*Triticum aestivum L.*) and earthworms (*Eisenia fetida*) on the bioavailability of perfluoroalkyl substances (PFASs) in soil. *Environmental Pollution* **184** (2014) 495-501.

Zhao 2015: Zhao W, et al. Na^+/Taurocholate Cotransporting Polypeptide and Apical Sodium-Dependent Bile Acid Transporter Are Involved in the Disposition of Perfluoroalkyl Sulfonates in Humans and Rats. *Toxicological Sciences,* **146(2),** 2015, 363-373.

Zhong 2016: Zhong SQ, et al. Testosterone-Mediated Endocrine Function and TH1/TH2 Cytokine Balance after Prenatal Exposure to Perfluorooctane Sulfonate: By Sex Status. *Int J Mol Sci.* 2016 Sep 12;**17(9).** pii: E1509.

Zhou 2013: Zhou Z, et al. Occurrence and Transport of Perfluoroalkyl Acids (PFAAs), Including Short-Chain PFAAs in Tangxun Lake, China. *Environmental Science & Technology* 2013, **47**, 9249-9257.

Zhou 2014: Zhou Z, et al. Highly Elevated Serum Concentrations of Perfluoroalkyl Substances in Fishery Employees from Tangxun Lake, China. *Environmental Science & Technology*, 2014, **48**, 3864-3874.

Zhou 2016: Zhou L, et al. Toxic effect of perfluorooctanoic acid (PFOA) on germination and seedling growth of wheat (Triticum aestivum L.). *Chemosphere.* 2016 Sep;**159**:420-5.

Zhou 2016a: Zhou Y, et al. Association of perfluoroalkyl substances exposure with reproductive hormone levels in adolescents: By sex status. *Environment International.* 2016 Sep; **94**:189-195.

Zhou 2017: Zhou R, et al. Interactions between three typical endocrine-disrupting chemicals (EDCs) in binary mixtures exposure on myocardial differentiation of mouse embryonic stem cell. *Chemosphere.* 2017 Jul;**178**:378-383.

Zhou 2017a: Zhou Y, et al. **Ecological effect and risk towards aquatic plants induced by perfluoroalkyl substances: Bridging natural to culturing flora.** *Chemosphere.* 2017 Jan;**167**:98-106.

Zhu 2015: Zhu J, et al. Involvement of mitogen-activated protein kinase and NF-κB signaling pathways in perfluorooctane sulfonic acid-induced inflammatory reaction in BV2 microglial cells. *J Appl Toxicol.* 2015 Dec;**35(12):**1539-49.

Zoeller 2014: Regulation of Endocrine-Disrupting Chemicals Insufficient to Safeguard Public Health. *J Clin Endocrinol Metab*, June 2014, **99(6):** 1993-1994.