

**KYUNGHO CHOI** PhD MPH DVM  
**Professor, Department of Environmental Health Sciences**  
**Director, BK 21 Center for Healthy Environment Education & Research**  
**School of Public Health, Seoul National University**  
**1 Gwanak-ro Gwanak-gu 08826 Korea**

*Email:* [kyungho@snu.ac.kr](mailto:kyungho@snu.ac.kr)

<http://envtox.snu.ac.kr>

*Researcher ID:* D-5732-2012

---

## EDUCATION

SEOUL NATIONAL UNIVERSITY, Seoul, Korea  
School of Public Health (Environmental Health Sciences)  
*Ph.D.*, Environmental Toxicology, Environmental Health 1998  
*Master of Public Health (MPH)*, Environmental Health, 1995  
  
College of Veterinary Medicine  
*Doctor of Veterinary Medicine*, 1993

---

## PROFESSIONAL EXPERIENCE

SEOUL NATIONAL UNIVERSITY, Seoul, Korea Environmental Health, School of Public Health <i>Professor (2014-present)</i> <i>Associate Professor (2009-2014)</i> <i>Assistant Professor (2005-2009)</i> <i>Fulltime Lecturer (2003- 2005)</i>	2003-Present
BK21 Center for Healthy Environment Education and Research <i>Director (2013-Present)</i>	
Institute of Health and Environment <i>Associate Director (2015-Present)</i> <i>Director, Center for Environment and Health Risk Research (2011-2012)</i>	
Asian Institute for Energy, Environment, and Sustainability <i>Director, Research Center for Education (2016-present)</i> <i>Researcher (2010-present)</i>	
URS CORPORATION, Chicago, Illinois, USA <i>Environmental Toxicologist (2001-2003)</i>	2001-2003
UNIVERSITY OF MICHIGAN, Ann Arbor, Michigan, USA Environmental Health Sciences, School of Public Health <i>Postdoctoral Research Fellow (1998-2000)</i> <i>Visiting Scholar (1997-1998)</i>	1997 – 2000
SEOUL NATIONAL UNIVERSITY, Seoul, Korea Environmental Health, School of Public Health	1995 – 1996

*Teaching Assistant (1995-1996)*

Institute of Health and Environment  
*Researcher (1995-1996)*

---

## ACADEMIC AND SOCIAL ACTIVITIES

Korean Society of Environmental Health (Member, Vice President)  
Korea Public Health Association (Director of Academic Affairs)  
Korean Society of Environmental Health and Toxicology (Member)  
Society of Environmental Toxicology and Chemistry (Member)  
International Society of Exposure Science (Member)  
Society of Toxicology (Member)

### Journal Editorial Board

Environmental Toxicology and Chemistry (2019-2021 Editorial board)  
Environment International (2018-Present Editorial board)  
Toxics (2018-Present Associate editor)  
International Journal of Hygiene and Environmental Health (2017-Present Editorial board)  
Environmental Management (2015-Present Editorial board)  
Journal of Occupational Health (2010-Present Editorial board)  
Korean Public Health Research (Associate editor)  
Journal of Environmental Health Sciences (2013-2014, Editor in chief)

### Journal Guest Editor

Environment International (2019-2020 Guest editor) Exposure and Health in Asia  
Science of the Total Environment (2017 Guest editor) Asian birth cohorts  
Environmental Toxicology and Chemistry (2016 Guest editor) Pharmaceuticals in environment  
Environmental Science: Processes and Impacts (2016-2017 Guest editor) Bioassays

### Public Services

Risk Assessment Expert Committee (Ministry of Food and Drug Safety)

---

## AWARDS

Seoul National University Research Award (16 May 2018)  
Korean Society of Environmental Health Academic Award (2018)

---

## PUBLICATIONS

### Dissertations

**Choi K.** "An Evaluation on the Applicability of Biological Toxicity Testing Methods for Discharge Control of Plating Wastewater." Ph.D., Seoul National University 1998.

**Choi K.** “Composting of Swine Manure Using Sawdust, Rice Straw, Rice Hull or Newspaper Waste as a Bulking Material.” M.P.H., Seoul National University 1995.

**Peer-Reviewed International Journal Articles** (corresponding author underlined)

- 2020-3. Lee JW, **Choi K**, Park K, Seong C, Yu SD, Kim P. 2020. Adverse effects of perfluoroalkyl acids on fish and other aquatic organisms: A review. *Sci Total Environ* (in press)
- 2020-2. Lee G, Kim S, Kho Y, Kim S, Lee S, Choi G, Park J, Worakhunpiset S, Moon HB, Okanurak K, Geounupakul M, Tangtitawong J, Wetsutthanon K, Trisurat D, **Choi K**. 2020. Urinary levels of phthalates and DINCH metabolites in Korean and Thai pregnant women across three trimesters. *Sci Total Environ* (in press)
- 2020-1. Lee YM, Lee JY, Kim MK, Yang H, Lee JE, Son Y, Kho Y, **Choi K**, Zoh KD. 2020. Concentration and distribution of per- and polyfluoroalkyl substances (PFAS) in the Asan Lake area of South Korea. *J Hazard Mater*. 381:120909 (2020.1)
- 2019-22. Park SH, Jo AR, Choi JW, Kim JH, Zoh K-D, **Choi K**. 2019. Rapid screening for ecotoxicity of plating and semiconductor wastewater employing the heartbeat of *Daphnia magna*. *Ecotoxicol Environ Saf*. 186, 109721 (2019. 12)
- 2019-21. Park NY, Cho YH, **Choi K**, Lee EH, Kim YJ, Kim JH, Kho Y. 2019. Parabens in breast milk and possible sources of exposure among lactating women in Korea. *Environ Pollut*. 255(Pt 2):113142 (2019.12)
- 2019-20. Lee JW,.. **Choi K**, ... Kim SK. 2019. Bisphenol A in infant urine and baby-food samples among 9- to 15-month-olds. *Sci Total Environ*. 697, 133861 (2019.12)
- 2019-19. Ji K, Seo J, Kho Y, **Choi K**. 2019. Co-exposure to ketoconazole alters effects of bisphenol A in *Danio rerio* and H295R cells. *Chemosphere* 237:124414 (2019.12)
- 2019-18. Hwang M, Lee YM, **Choi K**, Park C. 2019. Urinary 3-phenoxybenzoic acid levels and the association with thyroid hormones in adults: Korean National Environmental Health Survey 2012-2014. *Sci Total Environ*. 696:133920 (2019.12)
- 2019-17. Kang H, Lee J, Lee JP, **Choi K**. 2019. Urinary metabolites of organophosphate esters (OPEs) are associated with chronic kidney disease in the general US population, NHANES 2013-2014. *Environ Int*. 131:105034 (2019.10)
- 2019-16. Lee I, Kim S, Park S, Mok S, Jeong Y, Moon H-B, Lee JW, Kim SK, Kim H-J, Choi G, Choi S, Kim SY, Lee AR, Park J, **Choi K**. 2019. Association of urinary phthalate metabolites and phenolics with adipokines and insulin resistance related markers among women of reproductive age. *Sci Total Environ*. 688:1319-1326. (2019. 10)
- 2019-15. Kim SJ, Cho YH, Won S, Ku JL, Moon HB, Park J, Choi G, Kim S, **Choi K**. 2019. Maternal exposures to persistent organic pollutants are associated with DNA methylation of thyroid hormone-related genes in placenta differently by infant sex. *Environ Int*. 130:104956. (2019.9)
- 2019-14. Bhuiyan MNH, Kang H, Kim JH, Kim S, Kho Y, **Choi K**. 2019. Endocrine disruption by several aniline derivatives and related mechanisms in a human adrenal H295R cell line and adult male zebrafish. *Ecotoxicol Environ Saf*. 180: 326-332. (2019.9)
- 2019-13. Lee I, Lee J, Jung D, Kim S, **Choi K**. 2019. Two-generation exposure to 2-ethylhexyl 4-methoxycinnamate (EHMC) in Japanese medaka (*Oryzias latipes*) and its reproduction and endocrine related effects. *Chemosphere*. 228: 478-484. (2019.8)

- 2019-12. Lee D, **Choi K**. 2019. Comparison of regulatory frameworks of environmental risk assessments for human pharmaceuticals in EU, USA, and Canada. *Sci. Total Environ.* 671:1026-1035. (2019.6)
- 2019-11. Park C, Hwang M, Baek Y, Jung S, Lee Y, **Paek D**, **Choi K**. 2019. Urinary phthalate metabolite and bisphenol A levels in the Korean adult population in association with sociodemographic and behavioral characteristics: Korean National Environmental Health Survey (KoNEHS) 2012-2014. *Int J Hyg Environ Health.* 222: 903-910 (2019.6)
- 2019-10. Lee J-Y, Lee J-E, Kim TY, **Choi K**, Kho YL, Choe W, Lee YM, **Zoh KD**. 2019. Distribution of phthalate esters in air, water, sediments, and fish in the Asan Lake of Korea. *Environ Int.* 126: 635-643 (2019.5)
- 2019-9. Lee HJ, Lee JE, **Choi K**, **Kim K-T**. 2019. Comparing endocrine disrupting effects of major phthalates employing two cell lines (MVLN and H295R) and embryonic zebrafish assay. *Environ Res.* 172: 319-325 (2019.5)
- 2019-8. Noh SR, Kim J-A, **Cheong H-K**, Ha M, Jee Y-K, Park M-Sm Choi KH, Kim H, Cho S-I, Choi K, Paek D. 2019. Hebei Spirit oil spill and its long-term effect on children's asthma symptoms. *Environ Pollut.* 248: 286-294 (2019.5)
- 2019-7. Lee G, Lee S, Ha N, Kho Y, Park K, Kim P, Ahn B, Kim S, **Choi K**. 2019. Effects of gemfibrozil on sex hormones and reproduction related performances of *Oryzias latipes* following long-term (155 d) and short-term (21 d) exposure. *Ecotoxicol Environ Saf.* 173:174-181 (2019.5)
- 2019-6. Lee S, Kim C, Shin H, Kho Y, **Choi K**. 2019. Comparison of thyroid hormone disruption potentials by bisphenols A, S, F, and Z in embryo-larval zebrafish. *Chemosphere.* 221:115-123 (2019.4)
- 2019-5. Liu X, Cai Y, Wang Y, Xu S, Ji K, **Choi K**. 2019. Effects of tris(1,3-dichloro-2-propyl) phosphate (TDCPP) and triphenyl phosphate (TPP) on sex-dependent alterations of thyroid hormones in adult zebrafish. *Ecotoxicol Environ Saf.* 170:25-32 (2019.4)
- 2019-4. Lee IA, Alakeel R, Kim SM, Al-Sheikh YA, Al-Mandeel H, Alyousef AA, **Kho YL**, **Choi K**. 2019. Urinary phthalate metabolites among children in Saudi Arabia: Occurrences, risks, and their association with oxidative stress markers. *Sci Total Environ.* 654:1350-1357 (2019.3)
- 2019-3. Kang H, Kim S, Lee G, Lee I, Lee JP, Lee J, Park H, Moon HB, Park J, Kim S, Choi G, **Choi K**. 2019. Urinary metabolites of dibutyl phthalate and benzophenone-3 are potential chemical risk factors of chronic kidney function markers among healthy women. *Environ Int.* 124:354-360 (2019.3)
- 2019-2. Kim B, **Ji K**, Kim C, Kang H, Lee S, Kwon B, Kho Y, Park K, Kim K, **Choi K**. 2019. Pharmaceutical residues in streams near concentrated animal feeding operations of Korea - Occurrences and associated ecological risks. *Sci Total Environ.* 655:408-413 (2019.3)
- 2019-1. Kim MJ, Moon S, Oh BC, Jung D, **Choi K**, **Park YJ**. 2019. Association Between Diethylhexyl Phthalate Exposure and Thyroid Function: A Meta-Analysis. *Thyroid.* 29(2):183-192 (2019.2)
- 2018-19. Lee J, Kim S, **Choi K**, Ji K. 2018. Effects of bisphenol analogs on thyroid endocrine system and possible interaction with 17 $\beta$ -estradiol using GH3 cells. *Toxicol In Vitro.* 53:107-113 (2018.12)
- 2018-18. Kang H, Lee HK, Moon HB, Kim S, Lee J, Ha M, Hong S, Kim S, **Choi K**. 2018. Perfluoroalkyl acids in serum of Korean children: Occurrences, related sources, and associated health outcomes. *Sci Total Environ.* 645:958-965 (2018.12)
- 2018-17. Kim S, Cho YH, Lee I, Kim W, Won S, Ku JL, Moon HB, Park J, Kim S, Choi G, **Choi K**. 2018. Prenatal exposure to persistent organic pollutants and methylation of LINE-1 and imprinted genes in placenta: A CHECK cohort study. *Environ Int.* 119:398-406 (2018.10)

- 2018-16. Kim TK, Kim T, Jo A, Park S, **Choi K**, Zoh KD. 2018. Degradation mechanism of cyanide in water using a UV-LED/H<sub>2</sub>O<sub>2</sub>/Cu<sup>2+</sup> system. *Chemosphere*. 208:441-449 (2018.10)
- 2018-15. Lee J, Kim S, Park YJ, Moon HB, **Choi K**. 2018. Thyroid hormone-disrupting potentials of major benzophenones in two cell lines (GH3 and FRTL-5) and embryo-larval zebrafish. *Environ Sci Technol*. 52(15):8858-8865 (2018.8)
- 2018-14. Lee IA, Kim SM, Kim K-T, Kim SK, Park SH, Lee HJ, Jeong YS, Lim J-E, Moon H-B, **Choi K**. 2018. Bisphenol A exposure through receipt handling and its association with insulin resistance among female cashiers. *Environ Int*. 117:268-275 (2018.8)
- 2018-13. Saha L, Kim SJ, Kang HB Akter S, **Choi K**, Sakuma T, Yamamoto T, Sasanuma H, Hirota K, Nakamura J, Honma M, Takeda 2018. Differential micronucleus frequency in isogenic human cells deficient in DNA repair pathways is a valuable indicator for evaluating genotoxic agents and their genotoxic mechanisms. *Environ Mol Mutagen*. 59:529-538 (2018.7)
- 2018-12. Kim S, Lee S, Shin C, Lee J, Kim S, Lee A, Park J, Kho Y, Moos RK, Koch HM, Kim S, **Choi K**. 2018. Urinary parabens and triclosan concentrations and associated exposure characteristics in a Korean population-A comparison between night-time and first-morning urine. *Int J Hyg Environ Health*. 221:632-641 (2018.5)
- 2018-11. Kim MJ, Moon SJ, Oh B-C, Jung D, Ji KH, **Choi K**, Park YJ. 2018 Association between perfluorinated compounds exposure and thyroid function: A meta-analysis. *PLoS ONE* 13 (5): e0197244. <https://doi.org/10.1371/journal.pone.0197244>
- 2018-10. An JS, **Choi K**, Yang SH, Nam KP. 2018. Estimation of human-origin estrone and 17β-estradiol concentrations in the Han River, Seoul, South Korea and its uncertainty-based ecological risk characterization. *Sci Total Environ* 633:1148-1155 (2018.8)
- 2018-9. Kwak K, Ji K, Kho YL, Kim PJ, Lee JA, Ryu JS, **Choi K**. 2018. Chronic toxicity and endocrine disruption of naproxen in freshwater waterfleas and fish, and steroidogenic alteration using H295R cell assay. *Chemosphere* 204:156-162 (2018.8)
- 2018-8. Lee J, **Choi K**, Park J, Moon HB, Choi G, Lee JJ, Suh E, Kim HJ, Eun SH, Kim GH, Cho GJ, Kim SK, Kim S, Kim SY, Kim S, Eom S, Choi S, Kim YD, Kim S. 2018. Bisphenol A distribution in serum, urine, placenta, breast milk, and umbilical cord serum in a birth panel of mother-neonate pairs. *Sci Total Environ* 626.1494-1501 (2018.6)
- 2018-7. Kim S, Eom S, Kim HJ, Lee JJ, Choi G, Choi S, Kim S, Kim SY, Cho G, Kim YD, Suh E, Kim SK, Kim S, Kim GH, Moon HB, Park J, Kim S, **Choi K**, Eun SH. 2018. Association between maternal exposure to major phthalates, heavy metals, and persistent organic pollutants, and the neurodevelopmental performances of their children at 1 to 2 years of age- CHECK cohort study. *Sci Total Environ*. 624:377-384 (2018.5)
- 2018-6. Shin MY, Kim S, Lee S, Kim HJ, Lee JJ, Choi G, Choi S, Kim S, Kim SY, Park J, Moon HB, **Choi K**, Kim S. 2018. Prenatal contribution of 2, 2', 4, 4'-tetrabromodiphenyl ether (BDE-47) to total body burden in young children. *Sci Total Environ*. 616-617.510-516 (2018.3)
- 2018-5. Choi S, Kim HJ, Kim S, Choi G, Kim S, Park J, Shim SS, Lee I, Kim S, Moon HB, **Choi K**, Lee JJ, Kim SY. 2018. Current status of organochlorine pesticides (OCPs) and polychlorinated biphenyls (PCBs) exposure among mothers and their babies of Korea-CHECK cohort study. *Sci Total Environ*. 618.674-681 (2018.5)
- 2018-4. Liu X, Jung D, Zhou K, Lee S, Noh K, Khim JS, Giesy JP, Yim UH, Shim WJ, **Choi K**. 2018. Characterization of endocrine disruption potentials of coastal sediments of Taean, Korea employing H295R and MVLN assays-Reconnaissance at 5 years after *Hebei Spirit* oil spill. *Mar Pollut Bull*. 127:264-272 (2018.2)

- 2018-3. Jeong Y, Lee S, Kim S, Park J, Kim HJ, Choi G, Choi S, Kim S, Kim SY, Kim S, **Choi K**, Moon HB. In press. Placental transfer of persistent organic pollutants and feasibility using the placenta as a non-invasive biomonitoring matrix. *Sci Total Environ.* 612:1498-1505 (2018.1)
- 2018-2. Park Y, Lee A, **Choi K**, Kim HJ, Lee JJ, Choi G, Kim S, Kim SY, Cho GJ, Suh E, Kim SK, Eun SH, Eom S, Kim S, Kim GH, Moon HB, Kim S, Choi S, Kim YD, Kim J, Park J. Exposure to lead and mercury through breastfeeding during the first month of life: A CHECK cohort study. *Sci Total Environ.* 612:876-883 (2018.1)
- 2018-1. Lee S, Kim S, Park J, Kim HJ, Choi G, Choi S, Kim S, Kim SY, Kim S, Choi K, Moon HB. Perfluoroalkyl substances (PFASs) in breast milk from Korea: Time-course trends, influencing factors, and infant exposure. *Sci Total Environ.* 612:286-292 (2018.1)
- 2017-14. Kim SM, Lee J, Park J, Kim HJ, Cho GJ, Kim GH, Eun SH, Lee JJ, Choi G, Suh E, Choi S, Kim S, Kim SK, Kim YD, Kim SY, Kim S, Eom S, Moon HB, Kim S, Choi K. 2017. Urinary phthalate metabolites over the first 15 months of life and risk assessment - CHECK cohort study. *Sci Total Environ.* 607-608:881-887 (2017.12)
- 2017-13. Kim SJ, Kim SM, Won S, Choi K. 2017. Considering common sources of exposure in association studies - Urinary benzophenone-3 and DEHP metabolites are associated with altered thyroid hormone balance in the NHANES 2007-2008. *Environ Int.* 107:25-32 (2017.10)
- 2017-12. Kim B, Ji K, Kho Y, Kim PG, Park K, Kim K, Kim Y, Kim KT, Choi K. 2017. Effects of chronic exposure to cefadroxil and cefradine on *Daphnia magna* and *Oryzias latipes*. *Chemosphere.* 185:844-851 (2017.10)
- 2017-11. Kolodziej EP, Choi K, Marfil-Vega R, Brooks BW. 2017. The necessity of bioanalytical tools for advancing water and sediment quality assessment. *Environ Sci Process Impacts.* 19(9):1113-1116 (2017.9)
- 2017-10. Lee S, Hong S, Liu X, Kim C, Jung D, Yim UH, Shim WJ, Khim JS, Giesy JP, Choi K. 2017. Endocrine disrupting potential of PAHs and their alkylated analogues associated with oil spills. *Environ Sci Process Impacts.* 19(9):1117-1125 (2017.9)
- 2017-9. Park C, Choi W, Hwang M, Lee Y, Kim S, Yu S, Lee I, Paek D, Choi K. 2017. Associations between urinary phthalate metabolites and bisphenol A levels, and serum thyroid hormones among the Korean adult population - Korean National Environmental Health Survey (KoNEHS) 2012-2014. *Sci Total Environ.* 584-585:950-957 (2017.4)
- 2017-8. Kim JH, Park Y, Kim SK, Moon HB, Park J, Choi K, Kim S. 2017. Timing of an accelerated body mass increase in children exposed to lead in early life: A longitudinal study. *Sci Total Environ.* 584-585:72-77 (2017.4)
- 2017-7. Lee JE, Choi K. 2017. Perfluoroalkyl substances exposure and thyroid hormones in humans: epidemiological observations and implications. *Ann Pediatr Endocrinol Metab.* 22(1):6-14 (2017.3)
- 2017-6. Choi W, Kim S, Baek YW, Choi K, Lee K, Kim S, Yu SD, Choi K. 2017. Exposure to environmental chemicals among Korean adults-updates from the second Korean National Environmental Health Survey (2012-2014). *Int J Hyg Environ Health.* 220(2 Pt A):29-35 (2017.3)
- 2017-5. Lee S, Kim C, Youn H, Choi K. (2017) Thyroid hormone disrupting potentials of bisphenol A and its analogues - in vitro comparison study employing rat pituitary (GH3) and thyroid follicular (FRTL-5) cells. *Toxicol In Vitro.* 40:297-304

- 2017-4. Jung D, Kim JA, Park MS, Yim UH, Choi K. (2017) Human health and ecological assessment programs for Hebei Spirit oil spill accident of 2007: Status, lessons, and future challenges. *Chemosphere*. 173:180-189
- 2017-3. Kim JA, Noh SR, Cheong HK, Ha M, Eom SY, Kim H, Park MS, Chu Y, Lee SH, Choi K. (2017) Urinary oxidative stress biomarkers among local residents measured 6 years after the Hebei Spirit oil spill. *Sci Total Environ*. 580:946-952
- 2017-2. Jung D, Guan M, Lee S, Kim C, Shin H, Hong S, Yim UH, Shim WJ, Giesy JP, Khim JS, Zhang X, Choi K. (2017) Searching for novel modes of toxic actions of oil spill using E. coli live cell array reporter system - A Hebei Spirit oil spill study. *Chemosphere*. 169:669-677
- 2017-1. Kim C, Lee I, Jung D, Hong S, Khim JS, Giesy JP, Yim UH, Shim WJ, Choi K. (2017) Reconnaissance of dioxin-like and estrogen-like toxicities in sediments of Taean, Korea-seven years after the Hebei Spirit oil spill. *Chemosphere*. 168:1203-1210
- 2016-15. Sohn J, Kim S, Koschorreck J, Kho Y, Choi K. (2016) Alteration of sex hormone levels and steroidogenic pathway by several low molecular weight phthalates and their metabolites in male zebrafish (*Danio rerio*) and/or human adrenal cell (H295R) line. *J Hazard Mater*. 320:45-54 (2016.12)
- 2016-14. Shin MY, Lee S, Kim HJ, Lee JJ, Choi G, Choi S, Kim S, Kim SY, Park J, Moon HB, Choi K, Kim S. (2016) Polybrominated diphenyl ethers in maternal serum, breast milk, umbilical Cord serum, and house dust in a South Korean birth panel of mother-neonate pairs. *Int J Environ Res Public Health*. 13(8) doi: 10.3390/ijerph13080767
- 2016-13. Liu X, Jung D., Jo A, Ji K, Moon HB, Choi K. (2016) Long-term exposure to triphenyl phosphate alters hormone balance and HPG, HPI, and HPT gene expression in zebrafish (*Danio rerio*). *Environ Toxicol Chem*. 35(9) 2288-2296 (2016.9)
- 2016-12. Kim S, Sohn JH, Ha SY, Kang H, Yim UH, Shim WJ, Khim JS, Jung D, Choi K. (2016) Thyroid Hormone Disruption by Water-Accommodated Fractions of Crude Oil and Sediments Affected by the Hebei Spirit Oil Spill in Zebrafish and GH3 Cells. *Environ Sci Technol*. 50(11):5972-80
- 2016-11. Park C, Hwang M, Kim H, Ryu S, Lee K, Choi K, Paek D. (2016) Early snapshot on exposure to environmental chemicals among Korean adults-results of the first Korean National Environmental Health Survey (2009-2011). *Int J Hyg Environ Health*. 219(4-5):398-404
- 2016-10. Kim Y, Lee KB, Choi K. (2016) Effect of runoff discharge on the environmental levels of 13 veterinary antibiotics: A case study of Han River and Kyungahn Stream, South Korea. *Mar Pollut Bull*. 107(1):347-54
- 2016-9. Kim JH, Lee SJ, Kim SY, Choi G, Lee JJ, Kim HJ, Kim S, Park J, Moon HB, Choi K, Kim S, Choi SR. (2016) Association of food consumption during pregnancy with mercury and lead levels in cord blood. *Sci Total Environ*. 563-564:118-24
- 2016-8. Kim JH, Park H, Lee J, Cho G, Choi S, Choi G, Kim SY, Eun SH, Suh E, Kim SK, Kim HJ, Kim GH, Lee JJ, Kim YD, Eom S, Kim S, Moon HB, Park J, Choi K, Kim S, Kim S. (2016) Association of diethylhexyl phthalate with obesity-related markers and body mass change from birth to 3 months of age. *J Epidemiol Community Health*. 70(5):466-472
- 2016-7. Kwon B, Ha N, Jung J, Kim PG, Kho Y, Choi K, Ji K. (2016) Effects of Barium Chloride Exposure on Hormones and Genes of the Hypothalamic-Pituitary-Gonad Axis, and Reproduction of Zebrafish (*Danio rerio*). *Bull Environ Contam Toxicol*. 96(3):341-346
- 2016-6. Jeong Y, Lee S, Kim S, Choi SD, Park J, Kim HJ, Lee JJ, Choi G, Choi S, Kim S, Kim SY, Kim YD, Cho G, Suh E, Kim SK, Eun SH, Eom S, Kim S, Kim GH, Kim S, Choi K, Moon HB. (2016)

- Occurrence and prenatal exposure to persistent organic pollutants using meconium in Korea: Feasibility of meconium as a non-invasive human matrix. *Environ Res.* 147:8-15 (2016.5)
- 2016-5. Williams M, Backhaus T, Bowe C, Choi K, Connors K, Hickmann S, Hunter W, Kookana R, Marfil-Vega R, Rattray G, Verslycke T. (2016) Pharmaceuticals in the environment- Editorial. *Environ Toxicol Chem.* 35(4) 763-766 (2016.4)
- 2016-4. Ji K, Han EJ, Back S, Park J, Ryu J, Choi K. (2016) Prioritizing human pharmaceuticals for ecological risks in freshwater environment of Korea. *Environ Toxicol Chem.* 35(4) 1028-1036 (2016.4)
- 2016-3. Jeon S, Kim KT, Choi K. (2016) Migration of DEHP and DINP into dust from PVC flooring products at different surface temperature. *Sci Total Environ.* 547:441-6 (2016.3)
- 2016-2. Kang H, Moon HB, Choi K. (2016) Toxicological responses following short-term exposure through gavage feeding or water-borne exposure to Dechlorane Plus in zebrafish (*Danio rerio*). *Chemosphere.* 146:226-32. (2016.3)
- 2016-1. Hong S, Yim UH, Ha SY, Shim WJ, Jeon S, Lee S, Kim C, Choi K, Jung J, Giesy JP, Khim JS. (2016) Bioaccessibility of AhR-active PAHs in sediments contaminated by the Hebei Spirit oil spill: Application of Tenax extraction in effect-directed analysis. *Chemosphere.* 144:706-12(2016.2)
- 2015-10. Lee S, Shin WH, Hong S, Kang H, Jung D, Yim UH, Shim WJ, Khim JS, Seok C, Giesy JP, Choi K. (2015) Measured and predicted affinities of binding and relative potencies to activate the AhR of PAHs and their alkylated analogues. *Chemosphere.* 139:23-29 (2015.11)
- 2015-9. Lee S, Jung D, Kho Y, Ji K, Kim P, Ahn B, Choi K. (2015) Ecotoxicological assessment of cimetidine and determination of its potential for endocrine disruption using three test organisms: *Daphnia magna*, *Moina macrocopa*, and *Danio rerio*. *Chemosphere.* 135, 208-216 (2015.9)
- 2015-8. Lee S, Kim C, Kim J, Kim WK, Shin HS, Lim ES, Lee JW, Kim S, Kim KT, Lee SK, Choi CY, Choi K. (2015) Cloning metallothionein gene in *Zacco platypus* and its potential as an exposure biomarker against cadmium. *Environ Monit Assess.* 187(7):447 (2015.7)
- 2015-7. Kim S, Park J, Kim HJ, Lee JJ, Choi G, Choi S, Kim S, Kim SY, Lee DH, Moon HB, Kim S, Choi K. (2015) Association between Several Persistent Organic Pollutants in Serum and Adipokine Levels in Breast Milk among Lactating Women of Korea. *Environ Sci Technol.* 49(13):8033-8040 (2015.7)
- 2015-6. Lee S, Kim S, Park J, Kim HJ, Jae Lee J, Choi G, Choi S, Kim S, Young Kim S, Choi K, Kim S, Moon HB. (2015) Synthetic musk compounds and benzotriazole ultraviolet stabilizers in breast milk: Occurrence, time-course variation and infant health risk. *Environ Res.* 140:466-473 (2015.7)
- 2015-5. Kim S, Park J, Kim HJ, Lee JJ, Choi G, Choi S, Kim S, Kim SY, Moon HB, Kim S, Choi K. (2015) Association between Several Persistent Organic Pollutants and Thyroid Hormone Levels in Cord Blood Serum and Bloodspot of the Newborn Infants of Korea. *PLoS One.* 10(5):e0125213 (2015.5)
- 2015-4. Hong S, Lee S, Choi K, Kim GB, Ha SY, Kwon BO, Ryu J, Yim UH, Shim WJ, Jung J, Giesy JP, Khim JS. (2015) Effect-directed analysis and mixture effects of AhR-active PAHs in crude oil and coastal sediments contaminated by the Hebei Spirit oil spill. *Environ Pollut.* 199:110-118 (2015.4)
- 2015-3. Kho Y, Lee EH, Chae HJ, Choi K, Paek D, Park S. (2015) 1-Hydroxypyrene and oxidative stress marker levels among painting workers and office workers at shipyard. *Int Arch Occup Environ Health.* 88(3):297-303 (2015.4)
- 2015-2. Kim S, Jung J, Lee I, Jung D, Youn H, Choi K. (2015) Thyroid disruption by triphenyl phosphate, an organophosphate flame retardant, in zebrafish (*Danio rerio*) embryos/larvae, and in GH3 and FRTL-5 cell lines. *Aquat Toxicol.* 160:188-96 (2015.3)



- 2015-1. Kim S, Lee J, Park J, Kim HJ, Cho G, Kim GH, Eun SH, Lee JJ, Choi G, Suh E, Choi S, Kim S, Kim YD, Kim SK, Kim SY, Kim S, Eom S, Moon HB, Kim S, Choi K. (2015) Concentrations of phthalate metabolites in breast milk in Korea: estimating exposure to phthalates and potential risks among breast-fed infants. *Sci Total Environ.* 508:13-19 (2015.3)
- 2014-17. Kookana RS, Williams M, Boxall ABA, Larsson DGJ, Gaw S, Choi K, Yamamoto H, Thatikonda S, Zhu Y-G, Carriquiriborde P. (2014) Potential ecological footprints of active pharmaceutical ingredients: an examination of risk factors in low-, middle- and high-income countries. *Phil Trans R Soc B.* 369, 20130586 (2014.10)
- 2014-16. Jeong Y, Lee S, Kim S, Choi SD, Park J, Kim HJ, Lee JJ, Choi G, Choi S, Kim S, Kim SY, Kim YD, Cho G, Suh E, Kim SK, Eun SH, Eom S, Kim S, Kim GH, Lee WC, Choi K, Kim S, Moon HB. (2014) Infant exposure to polybrominated diphenyl ethers (PBDEs) via consumption of homemade baby food in Korea. *Environ Res.* 134C, 396-401 (2014.9)
- 2014-15. Kim WK, Lee SK, Park JW, Choi K, Cargo J, Schlenk D, Jung J. (2014) Integration of multi-level biomarker responses to cadmium and benzo[k]fluoranthene in the pale chub (*Zacco platypus*). *Ecotoxicol Environ Saf.* 110C, 121-128 (2014.9)
- 2014-14. Park D, Leem J, Lee K, Lim H, Choi Y, Ahn JJ, Lim S, Park J, Choi K, Lee N, Jung H, Ha J, Paek D. (2014) Exposure characteristics of familial cases of lung injury associated with the use of humidifier disinfectants. *Environ Health.* 13:70. doi: 10.1186/1476-069X-13-70 (2014.9)
- 2014-13. Lee S, Ji K, Choi K. (2014) Effects of water temperature on perchlorate toxicity to the thyroid and reproductive system of *Oryzias latipes*. *Ecotoxicol Environ Saf.* 108C, 311-317 (2014.10)
- 2014-12. Kim S, Jung D, Kho Y, Choi K. (2014) Effects of benzophenone-3 exposure on endocrine disruption and reproduction of Japanese medaka (*Oryzias latipes*)-A two generation exposure study. *Aquat Toxicol.* 155C, 244-252 (2014.9)
- 2014-11. Kim S, Choi K. (2014) Occurrences, toxicities, and ecological risks of benzophenone-3, a common component of organic sunscreen products: A mini-review. *Environ Int.* 70C, 143-157 (2014.9)
- 2014-10. Hong S, Khim JS, Park J, Son HS, Choi SD, Choi K, Ryu J, Kim CY, Chang GS, Giesy JP. (2014) Species- and tissue-specific bioaccumulation of arsenicals in various aquatic organisms from a highly industrialized area in the Pohang City, Korea. *Environ Pollut.* 192, 27-35 (2014.9)
- 2014-9. Choi G, Kim S, Kim S, Kim S, Choi Y, Kim HJ, Lee JJ, Kim SY, Lee S, Moon HB, Choi S, Choi K, Park J. (2014) Occurrences of major polybrominated diphenyl ethers (PBDEs) in maternal and fetal cord blood sera in Korea. *Sci Total Environ.* 491-492, 219-226 (2014.9)
- 2014-8. Jo A, Ji K, Choi K. (2014) Endocrine disruption effects of long-term exposure to perfluorodecanoic acid (PFDA) and perfluorotridecanoic acid (PFTrDA) in zebrafish (*Danio rerio*) and related mechanisms. *Chemosphere.* 108, 360-366 (2014.8)
- 2014-7. Kim WK, Park JW, Lim ES, Lee SK, Kim J, Kim S, Lee SW, Choi K, Jung J. (2014) Tissue-Specific Antioxidant Responses in Pale Chub (*Zacco platypus*) Exposed to Copper and Benzo[a]pyrene. *Bull Environ Contam Toxicol.* 92(5), 540-545 (2014.5)
- 2014-6. Kim J, Lee S, Kim CM, Seo J, Park Y, Kwon D, Lee SH, Yoon TH, Choi K. (2014) Non-monotonic concentration-response relationship of TiO<sub>2</sub> nanoparticles in freshwater cladocerans under environmentally relevant UV-A light. *Ecotoxicol Environ Saf.* 101, 240-247 (2014.3)
- 2014-5. Smith S, Fox J, Mejia M, Ruangpradit W, Saberi A, Kim S, Choi Y, Oh S, Wang Y, Choi K, Li L, Hendrickson EA, Takeda S, Muller M, Myung K. (2014) Histone deacetylase inhibitors selectively

- target homology dependent DNA repair defective cells and elevate non-homologous endjoining activity. *PLoS One* 9(1), e87203 (2014.1)
- 2014-4. Kim S, Kang S, Lee G, Lee S, Jo A, Kwak K, Kim D, Koh D, Kho YL, Kim S, **Choi K**. (2014) Urinary phthalate metabolites among elementary school children of Korea: sources, risks, and their association with oxidative stress marker. *Sci Total Environ.* 472, 49-55 (2014.2)
- 2014-3. Kim S, Lee S, Kim C, Liu X, Seo J, Jung H, Ji K, Hong S, Park J, Khim JS, Yoon S, Lee W, Park J, **Choi K**. (2014) In vitro and in vivo toxicities of sediment and surface water in an area near a major steel industry of Korea: Endocrine disruption, reproduction, or survival effects combined with instrumental analysis. *Sci Total Environ.* 470-471, 1509-1516 (2014.2)
- 2014-2. Hong S, **Khim JS**, Park J, Kim S, Lee S, **Choi K**, Kim CS, Choi SD, Park J, Ryu J, Jones PD, Giesy JP. (2014) Instrumental and bioanalytical measures of dioxin-like compounds and activities in sediments of the Pohang Area, Korea. *Sci Total Environ.* 470-471, 1517-1525 (2014.2)
- 2014-1. Jeong Y, Lee S, Kim S, Choi SD, Park J, Kim HJ, Lee JJ, Choi G, Choi S, Kim S, Kim SY, Kim YD, Cho G, Suh E, Kim SK, Eun SH, Eom S, Kim S, Kim GH, **Choi K**, **Kim S**, **Moon HB**. (2014) Occurrence and exposure assessment of polychlorinated biphenyls and organochlorine pesticides from homemade baby food in Korea. *Sci Total Environ.* 470-471, 1370-1375 (2014.2)
- 2013-14. Lee S, Kim S, Lee H-K, Lee I-S, Park J, Kim H-J, Lee JJ, Choi G, Choi S, Kim S, Kim SY, **Choi K**, Kim SK, **Moon H-B**. (2013) Contamination of polychlorinated biphenyls and organochlorine pesticides in breast milk in Korea: Time-course variation, influencing factors, and exposure assessment. *Chemosphere.* 93, 1578-1585 (2013.11)
- 2013-13. Lee S, Kim S, Kim E, Lee IS, Choi G, Kim HJ, Park J, Jae Lee J, Choi S, Young Kim S, Kim S, Kim S, **Choi K**, **Moon HB**. (2013) Polybrominated diphenyl ethers (PBDEs) in breast milk of Korea in 2011: Current contamination, time course variation, influencing factors and health risks. *Environ Res.* 126, 76-83 (2013.10)
- 2013-12. Kim S, Park J, Kim HJ, Lee JJ, Choi G, Choi S, Kim S, Kim SY, Moon HB, Kim S, **Choi K**. (2013) Association between several persistent organic pollutants and thyroid hormone levels in serum among the pregnant women of Korea. *Environ Int.* 59, 442-448 (2013.9)
- 2013-11. Lee S, Liu X, Takeda S, **Choi K**. (2013) Genotoxic potentials and related mechanisms of bisphenol A and other bisphenol compounds: A comparison study employing chicken DT40 cells. *Chemosphere* 93, 434-440 (2013.9)
- 2013-10. Kang SE, Kim SM, Park J, Kim H-J, Lee JJ, Choi GY, Choi SR, Kim SJ, Kim SY, Moon H-B, Kim SK, Kho YL, **Choi K**. (2013) Urinary paraben concentrations among pregnant women and their matching newborn infants of Korea, and the association with oxidative stress biomarkers. *Science of the Total Environment.* 461-462C:214-221 (2013.9)
- 2013-9. Ji K, Hong S, Kho Y, **Choi K**. (2013) Effects of bisphenol s exposure on endocrine functions and reproduction of zebrafish. *Environ Sci Technol.* 47, 8793-8800 (2013.8)
- 2013-8. Jung HR, Ji KH, Lee SW, Liu XS, Kang SE, Kho YL, Ahn BW, Ryu JS, Lee JA, **Choi K**. (2013) Toxicity and endocrine disruption in zebrafish (*Danio rerio*) and two freshwater invertebrates (*Daphnia magna* and *Moina macrocopa*) after chronic exposure to mefenamic acid. *Ecotoxicology and Environmental Safety.* 94:80-6 (2013.8)
- 2013-7. Ji K, Kim J, Lee M, Park S, Kwon H-J, Cheong H-K, Jang J-Y, Kim D-S, Yu S, Kim Y-W, Lee K-Y, Yang S-O, Jhung IJ, Yang W-H, Paek D-H, Hong Y-C, **Choi K**. (2013) Assessment of exposure to heavy metals and health risks among residents near abandoned metal mines in Goseong, Korea. *Environmental Pollution.* 178, 322-328. (2013.7)

- 2013-6. Ji K, Kang SE, Lee GW, Lee SR, Jo AR, Kwak KH, Kim DH, Kho DH, Lee SW, Kim SM, Kim SK, Hiuang Y-F, Wu K-Y, **Choi K** (2013) Urinary levels of N-acetyl-S-(2-carbamoyl-ethyl)-cysteine (AAMA), an acrylamide metabolite, in Korean children and their association with food consumption. *Science of the Total Environment*. 456-457, 17-23. (2013.7)
- 2013-5. Kim WK, Lee SK, **Choi K**, **Jung J**. (2013) Integrative assessment of biomarker responses in pale chub (*Zacco platypus*) exposed to copper and benzo[a]pyrene. *Ecotoxicol Environ Saf*. 92, 71-78. (2013.6)
- 2013-4. Ji K, Liu X, Lee SR, Kang SE, Kho YL, Giesy JP, **Choi K** (2013) Effects of non-steroidal anti-inflammatory drugs on hormones and genes of the hypothalamic pituitary-gonad axis, and reproduction of zebrafish. *Journal of Hazardous Materials*. 254-255, 242-251. (2013.6)
- 2013-3. Liu X, Ji K, Jo AR, Moon H-B, **Choi K** (2013) Effects of TDCPP or TPP on gene transcriptions and hormones of HPG axis, and their consequences on reproduction in adult zebrafish (*Danio rerio*). *Aquatic Toxicology*. 134-135, 104-111. (2013.6)
- 2013-2. Lee EH, Paek D, Kho YL, **Choi K**, **Chae HJ**. (2013) Color vision impairments among shipyard workers exposed to mixed organic solvents, especially xylene. *Neurotoxicology and Teratology*, 37C, 39-43. (2013. 5-6)
- 2013-1. Tewari S, **Jindal R**, Kho YL, Eo S, **Choi K**. (2013) Major pharmaceutical residues in wastewater treatment plants and receiving waters in Bangkok, Thailand, and associated ecological risks. *Chemosphere*, 91, 697-704. (2013. 4)
- 2012-14. Sul D, Ahn R, Im H, Oh E, Kim JH, Kim JG, Kim P, Kim HA, Park WY, Son BS, Shin D, Shim AS, Yang W, Yu SD, Lee KH, Lee KJ, Lee SD, Lee JW, Lee CK, Jang BK, **Choi K**, Han DH, Hwang MY, **Lee JH**. (2012) Korea National Survey for Environmental Pollutants in the human body 2008: 1-hydroxypyrene, 2-naphthol, and cotinine in urine of the Korean population. *Environmental Research*, 118, 25-30. (2012.10)
- 2012-13. Ji KH, Kim SM, Kho YL, Sakong J, Paek DM, **Choi K**. (2012) Major perfluoroalkyl acid (PFAA) concentrations and influence of food consumption among the general population of Daegu, Korea, *Science of The Total Environment*, 438, 42-48. (2012.11)
- 2012-12. Ji K, Kim S, Han S, Seo J, Lee S, Park Y, Choi K, Kho YL, Kim PG, Park J, **Choi K**. (2012) Risk assessment of chlortetracycline, oxytetracycline, sulfamethazine, sulfathiazole, and erythromycin in aquatic environment: are the current environmental concentrations safe? *Ecotoxicology*. 21, 2031-2050. (2012.10)
- 2012-11. **Boxall AB**, Rudd MA, Brooks BW, Caldwell DJ, **Choi K**, Hickmann S, Innes E, Ostapyk K, Staveley JP, Verslycke T, Ankley GT, Beazley KF, Belanger SE, Berninger JP, Carriquiriborde P, Coors A, Deleo PC, Dyer SD, Ericson JF, Gagné F, Giesy JP, Gouin T, Hallstrom L, Karlsson MV, Larsson DG, Lazorchak JM, Mastrocco F, McLaughlin A, McMaster ME, Meyerhoff RD, Moore R, Parrott JL, Snape JR, Murray-Smith R, Servos MR, Sibley PK, Straub JO, Szabo ND, Topp E, Tetreault GR, Trudeau VL, Van Der Kraak G. (2012) Pharmaceuticals and Personal Care Products in the Environment: What are the Big Questions? *Environmental Health Perspectives*. 120, 1221-1229. (2012.9)
- 2012-10. Ji K, Kim S, Kho Y, Paek D, Sakong J, Ha J, Kim S, **Choi K**. (2012) Serum concentrations of major perfluorinated compounds among the general population in Korea: dietary sources and potential impact on thyroid hormones. *Environment International*. 45, 78-85. (2012.9)
- 2012-9. Kim P, Park Y, Ji K, Seo J, Lee S, Choi K, Kho Y, Park J, **Choi K**. (2012) Effect of chronic exposure to acetaminophen and lincomycin on Japanese medaka (*Oryzias latipes*) and freshwater cladocerans *Daphnia magna* and *Moina macrocopa*, and potential mechanisms of endocrine disruption. *Chemosphere*. 89, 10-18. (2012.9)

- 2012-8. Kwon D, Kim MJ, Park C, Park J, **Choi K**, **Yoon TH**. (2012) In vivo biodegradation of colloidal quantum dots by a freshwater invertebrate, *Daphnia magna*. *Aquatic Toxicology*. 114-115, 217-222.
- 2012-7. Liu X, Lee J, Ji K, Takeda S, **Choi K**. (2012) Potentials and mechanisms of genotoxicity of six pharmaceuticals frequently detected in freshwater environment. *Toxicology Letters*. 211, 70-76.
- 2012-6. Liu X, Ji K, **Choi K**. (2012) Endocrine disruption potentials of organophosphate flame retardants and related mechanisms in H295R and MVLN cell lines and in zebrafish. *Aquatic Toxicology*. 114-115, 173-181.
- 2012-5. Yoon HS, Lee KM, Lee KH, Kim S, **Choi K**, **Kang D**. (2012) Polycyclic aromatic hydrocarbon (1-OHPG and 2-naphthol) and oxidative stress (malondialdehyde) biomarkers in urine among Korean adults and children. *Int J Hyg Environ Health*. 215, 458-464.
- 2012-4. **Choi K**, Paek D, Wu T, Chan CC, Onchang R, Padungtod C, Koizumi A. (2012) Asian forum on environmental health policy: challenges and perspectives of environmental health problems in the region in the next 30 years. *Environ Health Prev Med*. 17, 170-172.
- 2012-3. Hong S, **Khim JS**, Ryu J, Park J, Song SJ, Kwon BO, **Choi K**, Ji K, Seo J, Lee S, Park J, Lee W, Choi Y, Lee KT, Kim CK, Shim WJ, Naile JE, Giesy JP. (2012) Two years after the Hebei Spirit oil spill: residual crude-derived hydrocarbons and potential AhR-mediated activities in coastal sediments. *Environ Sci Technol*. 46, 1406-1414.
- 2012-2. Oh S, **Choi K**. (2012) Optimal conditions for three brood chronic toxicity test method using a freshwater macroinvertebrate *Moina macrocopa*. *Environ Monit Assess*. 184, 3687-3695.
- 2012-1. Li Y, **Jindal R**, **Choi K**, Kho YL, de Bullen PG (2012) Pharmaceutical residues in wastewater treatment plants and surface waters in Bangkok (Thailand). *Journal of Hazardous, Toxic, and Radioactive Waste* 15, 88-91
- 2011-7. Choi EH, **Choi K**, **Yi SM**. (2011) Non-methane hydrocarbons in the atmosphere of a metropolitan city and a background site in South Korea: sources and health risk potentials. *Atmospheric Environment* 45, 7563-7573
- 2011-6. Kim S, **Choi K**, Ji K, Seo J, Kho Y, Park J, Kim S, Park S, Hwang I, Jeon J, Yang H, Giesy JP. (2011) Trans-placental transfer of thirteen perfluorinated compounds and relations with fetal thyroid hormones. *Environmental Science and Technology* 45, 7465-7472
- 2011-5. Ji KH, Seo J, Liu X, Lee J, Lee S, Lee W, Park J, **Khim JS**, Hong S, Choi Y, Shim WJ, Takeda S, Giesy JP, **Choi K**. (2011) Genotoxicity and endocrine-disruption potentials of sediment near an oil spill site: two years after the Hebei Spirit oil spill. *Environmental Science and Technology* 45, 7481-7488
- 2011-4. Kim JK, **Kim YH**, Lee SW, Kwak KH, Chung WJ, **Choi K**. (2011) Determination of mRNA expression of DMRT93B, vitellogenin, and cuticle 12 in *Daphnia magna* and their biomarker potential for endocrine disruption. *Ecotoxicology* 20, 1741-1748
- 2011-3. Ji KH, **Choi K**, Giesy J, Musarrat J, Takeda S. (2011) Genotoxicity of several polybrominated diphenyl ethers (PBDEs) and hydroxylated PBDEs, and their mechanisms of toxicity. *Environmental Science and Technology* 45, 5003-5008
- 2011-2. Lee JY, Ji KH, Kho YL, Kim PJ, **Choi K**. (2011) Chronic exposure to diclofenac on two freshwater cladocerans and Japanese medaka. *Ecotoxicology and Environmental Safety* 74, 1216-1225 (2011)

- 2011-1. Kim SY, Ji KH, Lee SW, Lee JY, Kim JK, Kim SM, Kho YL, **Choi K** (2011) Perfluorooctane sulfonic acid (PFOS) exposure increases cadmium toxicity in early life stage of zebrafish (*Danio rerio*). *Environmental Toxicology and Chemistry* 30, 870-877
- 2010-10. Ji KH, Kho YL, Park CG, Paek DH, Ryu PD, Paek DM, Kim MY, Kim PG, **Choi K** (2010) Influence of water and food consumption on inadvertent antibiotics intake among general population. *Environmental Research* 110, 641-649
- 2010-9. Ji KH, **Choi K**, Lee SW, Park SR, Khim JS, Jo E-H, Choi KH, Zhang XW, Giesy JP (2010) Effects of sulfathiazole, oxytetracycline and chlortetracycline on steroidogenesis in the human adrenocarcinoma (H295R) cell line and freshwater fish *Oryzias latipes*. *Journal of Hazardous Materials* 182, 494-502
- 2010-8. Wan Y, **Choi K**, Kim SM, Ji KH, Chang H, Wiseman S, Jones PD, Khim JS, Park SH, Park J, Lam MHW, Giesy JP. (2010) Hydroxylated polybrominated diphenyl ethers and bisphenol A in pregnant women and their matching fetuses: placental transfer and potential risks. *Environmental Science and Technology* 44 (13) 5233–5239
- 2010-7. Kim JK, Kim SM, An KW, Choi CY, Lee SK, **Choi K** (2010) Molecular cloning of *Daphnia magna* catalase and its biomarker potential against oxidative stresses. *Comparative Biochemistry and Physiology Part C: Toxicology and Pharmacology* 152, 263-269
- 2010-6. Han SY, **Choi K**, Kim JK, Ji KH, Kim SM, Ahn BW, Yun JH, Choi KH, Khim JS, Zhang X, Giesy JP. (2010) Endocrine disruption and consequences of chronic exposure to ibuprofen in Japanese medaka (*Oryzias latipes*) and waterfleas (*Daphnia magna* and *Moina macrocopa*). *Aquatic Toxicology* 98. 256-264
- 2010-5. Ji KH, Kho YL, Park YS, **Choi K**. (2010) Influence of short-term dietary change on urinary levels of antibiotic residues and phthalates: A pilot study on 'Temple Stay' participants. *Environmental Research* 110, 375-382
- 2010-4. Kim JK, Park YN, Yoon TH, Yoon CS, **Choi K**. (2010) Phototoxicity of CdSe/ZnSe quantum dots with surface coatings of 3-mercaptopropionic acid or tri-n-octylphosphine oxide/gum arabic in *Daphnia magna* under environmentally relevant UV-B light. *Aquatic Toxicology* 97, 116-124
- 2010-3. Lee JY, Ji KH, Kim JK, Park CS, Lim KH, Yoon TH, **Choi K**. (2010) Acute toxicity of two CdSe/ZnSe quantum dots with different surface coating in *Daphnia magna* under various light conditions. *Environmental Toxicology* 25, 593-600
- 2010-2. Kim JK, Park J, Kim PG, Lee CW, Choi KH, **Choi K**. (2010) Implication of global environmental changes on chemical toxicity-Effect of water temperature, pH, and ultraviolet B irradiation on acute toxicity of several pharmaceuticals in *Daphnia magna*. *Ecotoxicology* 19. 662-669.
- 2010-1. Ji KH, Kim YH, **Choi K**. (2010) Water intake rate among the general Korean population. *Science of the Total Environment* 408, 734-739
- 2009-3. Kim JK, Lee MJ, Oh SR, Ku J-L, Kim K-H, **Choi K**. (2009) Acclimation to ultraviolet irradiation affects UV-B sensitivity of *Daphnia magna* to several environmental toxicants. *Chemosphere* 77, 1600-1608
- 2009-2. Ji KH, Kogame T, Choi K, Wang X, Lee JY, Taniguchi Y, Takeda S. (2009) A novel approach using DNA repair-deficient chicken DT40 cell lines for screening and. *Environmental Health Perspectives* 117, 1737-1744
- 2009-1. Kim JK, Park YN, **Choi K**. (2009) Phototoxicity and oxidative stress responses in *Daphnia magna* under exposure to sulfathiazole and environmental level ultraviolet B irradiation. *Aquatic Toxicology*, 91, 87-94

- 2008-12. Cho IH, **Choi K**, Kang H, **Zoh KD**. (2008) The risk assessment before and after solar photocatalytic degradation of BTEX contaminated groundwater at a gas station site in Korea. *Environmental Progress*, 27, 447-459
- 2008-11. **Choi K**, Kim YH, Park J, Park CK, Kim MY, Kim HS, Kim PG. (2008) Seasonal variations of several pharmaceutical residues in surface water and sewage treatment plants of Han River, Korea. *Science of the Total Environment*, 405(1-3) 120-128
- 2008-10. Ji KH, Kim YH, Oh SR, Ahn BW, Jo HY, **Choi K**. (2008) Toxicity of Perfluorooctane Sulfonic Acid and Perfluorooctanoic Acid on Freshwater Macroinvertebrates (*Daphnia magna* and *Moina macrocopa*) and the fish (*Oryzias latipes*). *Environmental Toxicology and Chemistry*, 27(10) 2159-2168
- 2008-9. Kim YH, Jung JY, Park J, Kim MH, Boxall ABA, **Choi K**. (2008) Prioritizing veterinary pharmaceuticals for aquatic environment in Korea. *Environmental Toxicology and Pharmacology*, 26, 167-176
- 2008-8. Kim MJ, Park CS, **Choi K**, **Yoon TH**. (2008) Implications of "Trap Emission" Observed in Quantum Dot Nanoparticles Accumulated in Toxicity Test Organism, *Daphnia magna*. *Bulletin of the Korean Chemical Society*, 29(6) 1101-1102
- 2008-7. Park SJ, **Choi K**. (2008) Hazard assessment of commonly used agricultural antibiotics on aquatic ecosystems. *Ecotoxicology*, 17, 526-538
- 2008-6. Kim SY, **Kwon HJ**, Cheong HK, **Choi K**, Jang JY, Jeong WC, Kim D-S, Yu S, Kim YW, Lee KW, Yang SO, Jung IJ, Yang W-H, Hong YC. (2008) Investigation on the Health Effects of an Abandoned Metal Mine. *Journal of Korean Medical Science*, 23(3) 452-458
- 2008-5. Kim KR, Lee SW, Paik NW, **Choi K**. (2008) Low-level lead exposure among Korean lead workers and estimates of associated risk of cardiovascular diseases. *Journal of Occupational and Environmental Hygiene*, 5(6) 399-416
- 2008-4. **Choi K**, Kim YH, Jung JY, Kim M-H, Kim C-S, Kim N-H, **Park J**. (2008) Occurrences and ecological risks of roxithromycin, trimethoprim, and chloramphenicol in Han River, Korea. *Environmental Toxicology and Chemistry*, 27(3) 711-719
- 2008-3. Oh SR, Kim JK, Lee MJ, **Choi K**. (2008) Dechlorination with Sodium Thiosulfate may affect the Toxicity of Wastewater Contaminated with Copper, Cadmium, Nickel, Zinc. *Environmental Toxicology*, 23, 211-217
- 2008-2. Jung JY, Kim YH, Kim JK, Jung D-H, **Choi K**. (2008) Environmental levels of ultraviolet light potentiate the toxicity of sulfonamide antibiotics in *Daphnia magna*. *Ecotoxicology*, 17, 37-45
- 2008-1. Kim YH, Jung JY, Oh SR, **Choi K**. (2008) Aquatic Toxicity of Cartap and Cypermethrin to Different Life Stages of *Daphnia magna* and *Oryzias latipes*. *Journal of Environmental Science and Health Part B-Pesticides Food Contam.* B43(1) 56-64
- 2007-2. Kim YH, **Choi K**, Jung JY, Park SJ, Kim PG, Park J. (2007) Aquatic toxicity of acetaminophen, carbamazepine, cimetidine, diltiazem and six major sulfonamides, and their potential ecological risks in Korea. *Environment International*, 33, 370-375
- 2007-1. Kim JK, **Choi K**, Cho IH, Son HS, Zoh KD. (2007) Application of a microbial toxicity assay for monitoring treatment effectiveness of pentachlorophenol in water using UV photolysis and TiO<sub>2</sub> photocatalysis. *Journal of Hazardous Materials*, 148, 281-286

- 2006-3. Oh SJ, Park J, Lee MJ, Park SY, Lee J-H., **Choi K.** (2006) Ecological Hazard Assessment of Major Veterinary Benzimidazoles: Acute and Chronic Toxicities to Aquatic Microbes and Invertebrates. *Environmental Toxicology and Chemistry*, 25(8), 2221-2226
- 2006-2. Kim TS, Kim JK, **Choi K**, **Zoh KD**. 2006. Degradation Mechanism and the Toxicity Assessment in TiO<sub>2</sub> Photocatalysis and Photolysis of Parathion. *Chemosphere*, 62(6) 926-933
- 2006-1. **Zoh KD**, Kim TS, Kim JG, **Choi K**, Yi SM. (2006) Parathion degradation and toxicity reduction in solar photocatalysis and photolysis. *Water Science and Technology*, 53(3), 1-8
- 2005-1. Zoh KD, TS Kim, JK Kim, **Choi K**, (2005) Degradation of parathion and the reduction of acute toxicity in TiO<sub>2</sub> photocatalysis. *Water Science and Technology*, 52, 45-52
- Choi K**, Meier P, Zong M. (2004) Relationship of Chemical-based effluent regulations of Korea to aquatic toxicities to microbes, macroinvertebrates, and fish. *Bulletin of Environmental Contamination and Toxicology*, 72 (5) 1067-1074
- Choi K**, Sweet L, Meier P, Kim P. (2004) Aquatic Toxicity of Four Alkylphenols (3-tert-butyl-, 2-isopropyl-, 3-isopropyl-, and 4-isopropylphenol) and their binary mixtures to microbes, invertebrates, and fish. *Environmental Toxicology*, 19 (1) 45-50
- Choi K**, Meier P. (2001) Toxicity evaluation of metal plating wastewater employing the Microtox assay: a comparison with cladocerans and fish. *Environmental Toxicology*, 16, 136-141
- Meier P**, **Choi K**, Sweet L. (2000) Acute and chronic life cycle toxicity of acenaphthene and 2,4,6-trichlorophenol to the midge *Paratanytarsus parthenogeneticus* (Diptera: Chironomidae). *Aquatic Toxicology*, 51, 31-44
- Choi K**, Zong M, Meier P. (2000) Application of a fish DNA damage assay as a biological toxicity screening tool for metal plating wastewater *Environmental Toxicology and Chemistry*, 19, 242-247

**Peer-Reviewed Books and Chapters** (corresponding author underlined)

- Choi K., Kim S. (2020) Brominated Flame Retardants (BFRs). In: Kishi R., Grandjean P. (eds) Health Impacts of Developmental Exposure to Environmental Chemicals. Current Topics in Environmental Health and Preventive Medicine. Springer, Singapore

---

## LECTURES AND PRESENTATIONS

### Keynote Lectures

Plenary lecture. Bangladesh Council of Scientific and Industrial Research Congress 2019. Industrial chemicals and environmental health. Dhaka Bangladesh (December 12-14, 2019)

Plenary lecture. Korean Endocrine Society 2019 Fall Conference, Daejeon Convention Center. Chemicals and reproduction. (October 31 – November 2, 2019)

Keynote lecture. Global Challenges University Alliance. Global Challenges in Food, Nutrition & Environment Symposium. 'Persistent Organic Pollutant among Us'. (December 6-9, 2018) Hong Kong University, Hong Kong

Keynote lecture. Indonesia Public Health Association Assembly (Kendari Indonesia) Keynote lecture Endocrine disrupting chemicals and challenges in public health (2018.1.21.)

Plenary lecture. POPs Forum 2018. Daemyung Vivaldi Park. 'Exposure to Environmental Phenols and Environmental Health' (February 8, 2018)

Keynote lecture. The 6<sup>th</sup> Asia Pacific Conference of Public Health Association (Bangkok Thailand) Keynote lecture Chemicals and Health- Linking chemical exposure to health (2016.8.22.-26.)

### Invited Lecture/Presentations

Gordon Research Conference 2019- Urbanization, Water and Food Security, Hong Kong University of Science and Technology. Chemical Exposure Profiles in Urine Among Several Asian Populations: Exposure Assessment and Public Health Implications (July 21-26, 2019) <https://www.grc.org/urbanization-water-and-food-security-conference/2019/>

SICEM 2019, Seoul Grand Walker Hill Hotel. 'Environmental Chemicals and Thyroid Hormone Disruption'. (April 20, 2019)

Japanese Society for Hygiene (Miyazaki Japan) Invited presentation EHPM-Medium for promoting Environmental Health of Asia and World (2017.3.26-28)

The 2016 Mansfield Lecture- Innovation & imagination in global health (Missoula MT, USA) Invited presentation. How environmental pollution impact our health and how we can deal with it (2016.4.11-13)

Public Speaking Series (AIHD Mahidol University) (2016.12.19)

Environmental chemicals and thyroid hormone disruptions by environmental chemicals- experimental evidences and epidemiological observations Asiatox 2015. 7th International Congress of Asian Society of Toxicology. June 23-26, 2015 (Jeju Korea)

Environmental risk assessment of pharmaceuticals and management challenges in Korea World Congress on Risk 2015. July 19-23, 2015. Singapore