

Curriculum Vitae

NAME	POSITION TITLE
Sungkyoon Kim	Ph.D., M.P.H. / Professor, Dept. Environmental Health Sciences School of Public Health, Seoul National University

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RESEARCH INTERESTS

Biological Monitoring, Human Exposure Assessments,

Computational Modeling: Disposition and Metabolism of Xenobiotics, PBPK

Statistical Analyses: Generalized Linear Models, Mixed-Effects Models, Non-Linear Models

Exposure Biology, Environmental Epigenetics,

EDUCATION

INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
University of North Carolina, Chapel Hill, NC	Ph.D.	2006	Environmental Science
Seoul National University, Seoul Korea	M.P.H.	1997	Environmental Health
Sogang University, Seoul Korea	B.S.	1994	Biology

POSITIONS & ACTIVITIES

Dec. 2011~ Present	Associate editor of Journal of Exposure Science and Environmental Epidemiology
Feb. 2009 ~ Present	Professor, Associate Professor, Assistant Professor, Dept. Envr. Health, School of Public Health, Seoul National University
Jan. 2009 ~ Present	Full membership to Korean Society of Environmental Health (Currently General director)
Jul. 2018 ~ Jun. 2023	Evaluation committee of health risk assessment, Korea Ministry of Science and ICT
Feb. 2018 ~ Feb. 2020	Advisory committee of risk assessment, National Institute of Food and Drug safety Evaluation
Dec. 2010~ Dec. 2012	Associate editor of Toxicological Research

Apr. 2010~ Dec. 2012	R&D Advisor of Korean Food and Drug Administration/National Institute of Food and Drug Safety Evaluation
Jun. 2006 ~ Jan. 2009	Postdoctoral Researcher, Dept. Envr. Sci. Eng., University of North Carolina at Chapel Hill
Aug. 2001 ~ Jun. 2006	Graduate Research Assistant, Dept. Envr. Sci. Eng., University of North Carolina at Chapel Hill
Sep. 2000 ~ Jul. 2001	Researcher, Institute of Environmental Medicine, Seoul National University Medical Research Center (SNUMRC), Seoul Korea
May 1998 ~ Sep. 2000	Research Assistant, SNUMRC
Mar. 1997 ~ Jun. 1998	Assistant Researcher, Institute of Health and Environmental Sciences, School of Public Health, Seoul National University, Seoul Korea Lecturer, Seowon University, Korea (Envr. Sci.), Seoul Health College & Dongnam Health College, Korea (Envr. Health)
Aug. 1991 ~ Feb. 1993	Service in the Korean Army (Rep. of Korea)

ACADEMIC SOCIETIES

Society of Toxicology	(Full membership)
International Society of Exposure Science	(Full membership)
Korean Society of Environmental Health	(General Director)

RESEARCH PROJECTS

Epigenetic perturbation after exposure to environmental BPS and heavy metals in mouse model and in vivo system, supported by Korea National Research Foundation (2019~2020), PI

- Monitoring of health effects at next generation after prenatal exposure to BPS and heavy metals
- Identification of epigenetic markers of health outcomes

Development of framework for aggregate exposure/risk assessment for PFCs/PBDEs, supported by Ministry of Food and Drug Safety (2020~2021), collaborator

- Construction of methodological framework of chemical risk assessment with reverse dosimetry with PBPK model of PFCs/PBDEs in general human population
- Review of the toxicological profiles of the study chemicals

Development of framework for aggregate exposure/risk assessment for PAHs, supported by Ministry of Food and Drug Safety (2020~2021), collaborator

- Construction of methodological framework of chemical risk assessment with reverse dosimetry with PBPK or PK models of PAHs in general human population

Project design of the national biobank for environmental health and the roadmap of its management, supported by National Institute of Environmental Research / Ministry of Environment (2019), PI

- Concept design of the national biobank for environmental health and suggestion of the rationales and estimates of the construction and operation/management
- Determination/identification of environmental chemicals in biological tissues collected from Korean National Environmental Health Survey as pilot projects of the biobank

Exposure assessment of key heavy metals via multiple media and pathways and comprehensive human risk assessment: Lead, mercury, cadmium, arsenic and chromium, supported by Ministry of Food and Drug Safety (2019~2020), PI

- Development of assessment methods of risk assessment of the key chemicals applicable to real exposure and life of general population
- Renewal or construction of exposure inventory of food, consumer products, living environments, toy, etc
- Construction of scenario-based exposure models for sub-populations and individuals
- Massive measurements of the analytes in biological samples and products to fill the data gaps
- Interpretation of biomarkers (reverse-dosimetry) via PBPK models and support the exposure model for realistic exposure
- Review and update toxicity-based reference values through recent toxicological and epidemiological studies

Nontarget screening and targeted biomonitoring of urine samples from the volunteers of cleaning jobs at the Hebei Spirit Oil Spill disaster, supported by Taean /ChungNam province (2017, 2018), PI

- Identification of chemicals which were not determined previously among the workers volunteering oil spills from Hebei Spirit Disaster

Development of the study design of the 4th Korean National Environmental Health Survey, supported by National Institute of Environmental Research / Ministry of Environment (2018), PI

- Construction of study design of Korean Nationwide biomonitoring program; suggestion of future plans and methodology

Development of framework for aggregate exposure/risk assessment for parabens, supported by Ministry of Food and Drug Safety (2018~2010), collaborator

- Construction of methodological framework of chemical risk assessment with reverse dosimetry with PBPK model of paraben in general human population
- Upgrade human PBPK model of paraben (core model) with exposure via dermal

Interpretation of human biomonitoring data in *Monitoring Information Management System and Monitoring database And assessment program* of Korea Ministry of Food and Drug Safety, supported by Ministry of Food and Drug Safety (2017~2018), collaborator

- Development of interpretation tools for human biomonitoring data in MIMS/MAP system of Korea Ministry of Food and Drug Safety

Developmental health and diseases after combined exposure to environmental chemicals in a mouse model, supported by Korea National Research Foundation (2016~2019), PI

- Monitoring of health effects at next generation after prenatal exposure to BPS and co-exposure chemical
- Identification of mechanistic and metabolomic features associated with health outcomes

Construction of PBPK models for environmental phenols (extended to other phenols), supported by Ministry of Food and Drug Safety (2017~2019), collaborator

- Construction of animal PBPK model for bisphenol F, 4-n-nonylphenol and 4-t-octylphenol
- Application of standardized methodology to risk assessment of environmental phenols with PBPK models above

Construction of PBPK models for environmental phenols and their application to risk assessment, supported by Ministry of Food and Drug Safety (2014~2016), PI

- Construction of human PBPK model for bisphenol A, triclosan, parabens, benzophenone and bisphenol S
- Application of standardized methodology to risk assessment of environmental phenols with PBPK models above

Cancer epidemiological inspection on a southern village near an asphalt-producing plant, supported by Korea Centers for Disease Control and Prevention (2014~2016), collaborator

- Biomonitoring of trichloroethylene and heavy metals in the study subjects

Inhalation exposure assessment and determination of toxicity-based reference values for nano-particles in consumer products under management of Korea Ministry of Environment (2015), collaborator

- Estimation of inhalation toxicity reference values of nanoparticles of silver, silica, titanium oxide in humans

Risk profiling of oral personal care products containing parabens, supported by Korea Centers for Disease Control and Prevention (2014~2016), collaborator

- Measuring human PK profiles after exposure to parabens and triclosan in oral personal care products
- Construction of PK models to describe ADME of parabens and triclosan
- Dose-reconstruction of parabens and triclosan at various exposure scenarios

Integrated risk assessment method for EDCs, supported by Korea Environmental Industry & Technology Institute (2015~2018), collaborator

- Exposure assessment of EDCs using exposure biomarkers with PBPK models
- Suggest pipeline of methodology for risk assessment for EDCs using biomonitoring and exposure models

Risk assessments of bisphenol A (BPA) and polybrominated diphenylethers (PBDEs) in multi-routes and sources for susceptible populations in Korea, supported by Korea National Institute of Environmental Research (2013), Collaborator

- Application of PBPK models of BPA and BDE-47 to make reverse dosimetry in Korean populations and compare to exposure estimates from conventional calculations with exposure coefficients.
- Biomonitoring of BPA and PBDEs in volunteers in a general population biospecimens and house dust

Construction of physiologically-based pharmacokinetic models for parabens and reverse-dosimetry to estimate general populations in Korea, supported by Korea Food and Drug Administration/ National Institute of Food and Drug Safety Evaluation (2013), Collaborator

- Development of PBPK models for methyl-, ethyl- and propylparabens in human volunteers and validation
- Application of PBPK models to estimate exposure levels of paraben with urinary paraben products in humans

Exposure characterization of biocides and risk assessment at workplaces in Korea, supported by Korea Occupational Safety and Health Research Institute (2012), Collaborator

- Surveillance of biocides frequently used at workplaces in Korea
- Determination of five major biocides including didecyldimethylammonium chloride in bioaerosol and biospecimens
- Risk assessment of biocide using exposure models

Exposure to endocrine disruptors (phthalates and bisphenol A) and heavy metals (Pb and Hg) and health outcomes in mother and new-born babies in Korea, supported by Korea Food and Drug Administration/ National Institute of Food and Drug Safety Evaluation (2012-2013), Principal Investigator of whole project.

- Determination of phthalates and bisphenol A) and heavy metals (Pb and Hg) in maternal serum, cord blood and breast milk as well as placenta and meconium in 0th and 1st months after birth among general populations of four cities in Korea
- Tracking the exposure pathways of the study chemicals and exposure assessment
- Exposure modeling of trans-placental and trans-milk delivery of the study chemicals from mothers and babies
- Association among various health effect markers and internal doses

Bridge study – human biomonitoring of food-related toxic substances, supported by Korea Food and Drug Administration/ National Institute of Food and Drug Safety Evaluation (2012), Collaborator

- Critical review on all human biomonitoring supported by Korea Food and Drug Administration for risk assessment/management
- Construction of comprehensive DB collected by individual researches above
- Meta-analysis and pooled data analysis for exposure to toxic substances and internal dose/health outcomes
- Providing the vision and scientific basis for national management system of biomonitoring

Exposure to POPs and health outcomes in mother and new-born babies in Korea, supported by Korea Food and Drug Administration/ National Institute of Food and Drug Safety Evaluation (2011), Collaborator to whole project, and Principal Investigator of determination of hydroxyl-PBDEs in biological specimens.

- Determination of PCBs, organochlorine pesticides, PBDEs in maternal serum, cord blood and breast milk in 0th, 1st and 3rd months after birth among general populations of four cities in Korea
- Tracking the exposure pathways of POPs and exposure assessment
- Exposure modeling of trans-placental and trans-milk delivery of POPs from mothers and babies
- Association among various health effect markers and internal doses

Design of Korean national biomonitoring program (phase II, 2012-2014), supported Korea National Institute of Environmental Research (2011). Collaborator

- Designing of study scheme of Korean national biomonitoring program (phase II, 2012-2014).
- Evaluation of Korean national biomonitoring program (phase I)

Comprehensive report of Korean national biomonitoring program (phase I, 2009-2011), supported Korea National Institute of Environmental Research (2011). Collaborator

- Statistical analysis on levels of biomarkers of environmental chemicals among general populations in Korea.
- Construction of national open-DB

Design of master plan of nationwide biomonitoring of toxic chemicals in environmental, supported by Korea Food and Drug Administration/ National Institute of Food and Drug Safety Evaluation (2010), Principal Investigator

- Design and suggestion of nationwide biomonitoring and master-planning for effective management of toxic substances in Korea
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Identification of determining factors in genetic disposition to TCE-induced toxicities using multiple inbred strains of mice, supported by NRF (2010-2012), Principal Investigator

- Identification of resistant and susceptible strains to TCE-induced toxicities among multi-panel strains of inbred mice in sub-chronic exposure
- Comparison of toxicokinetic parameters among the selected strains above
- Determination of genetic- and metabolic factors associated with TCE-induced toxicity using toxicogenomics and epigenetics

Exposure assessment of carcinogens and genotoxic effects at medical some hospital workers in Korea, supported by Korea Occupational Safety and Health Research Institute (2010), Principal Investigator

- Surveillance of carcinogenic substances frequently used in all hospitals in Korea (DB analysis)
- Exposure assessment of formaldehyde and ethylene oxide and health effects in hospital workers
- Exposure-to-health (genotoxicity) assessment: biomonitoring with urinary biomarkers and micro-nuclei assay

Toxicodynamics of multi-panel strain of inbred mice after acute and sub-acute exposure to trichloroethylene. supported by NRF (2009-2011), Principal Investigator

- Development of concurrent method to determine TCE metabolites and the parent compound *in vivo*
- Construction of acute dose-response relationship in various strains of inbred mice to identify EC50.
- Characterization of TCE metabolism in sub-acute exposure (up to 4 wk) to TCE in multi strains of inbred mice

Genomic and Genetic analysis of liver and kidney toxicity of trichloroethylene (TCE): Superfund project with UNC-CH, supported by NIEHS (2007-2009). Collaboration

- Development of measurement method of exposure biomarkers of TCE using HPLC-ESI-MS/MS

- Development of pharmacokinetic model of TCE metabolism at acute exposure of TCE in B6C3F1 mice
- GWAS of multipanel of inbred mice exposed to TCE
- Metabolomic analysis of inbred mice exposed to TCE

PUBLICATIONS

1. Shin MY, Shin C, Choi JW, Lee J, Lee S, Kim S. Pharmacokinetic profile of propyl paraben in humans after oral administration. *Environment International*. 2019;130. doi: 10.1016/j.envint.2019.104917.
2. Lee J, Ahn YA, Choi K, Park J, Moon HB, Choi G, Lee JJ, Suh E, Kim HJ, Eun SH, Kim GH, Cho G, Kim SK, Kim S, Kim SY, Kim S, Eom S, Choi S, Kim YD, Kim S. Bisphenol A in infant urine and baby-food samples among 9- to 15-month-olds. *Science of the Total Environment*. 2019;697. doi: 10.1016/j.scitotenv.2019.133861.
3. Lee I, Kim S, Park S, Mok S, Jeong Y, Moon HB, Lee J, Kim S, Kim HJ, Choi G, Choi S, Kim SY, Lee A, Park J, Choi K. Association of urinary phthalate metabolites and phenolics with adipokines and insulin resistance related markers among women of reproductive age. *Science of the Total Environment*. 2019;688:1319-26. doi: 10.1016/j.scitotenv.2019.06.125.
4. Kim S, Cho YH, Won S, Ku JL, Moon HB, Park J, Choi G, Kim S, Choi K. Maternal exposures to persistent organic pollutants are associated with DNA methylation of thyroid hormone-related genes in placenta differently by infant sex. *Environment International*. 2019;130. doi: 10.1016/j.envint.2019.104956.
5. Kang H, Kim S, Lee G, Lee I, Lee JP, Lee J, Park H, Moon HB, Park J, Kim S, Choi G, Choi K. Urinary metabolites of dibutyl phthalate and benzophenone-3 are potential chemical risk factors of chronic kidney function markers among healthy women. *Environment International*. 2019;124:354-60. doi: 10.1016/j.envint.2019.01.028.
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. Prenatal contribution of 2, 2', 4, 4'-tetrabromodiphenyl ether (BDE-47) to total body burden in young children. *Science of the Total Environment*. 2018;616-617:510-6. doi: 10.1016/j.scitotenv.2017.09.161.
7. 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. *Science of the Total Environment*. 2018;612:876-83. doi: 10.1016/j.scitotenv.2017.08.079.
8. Oh J, Choi JW, Ahn YA, Kim S. Pharmacokinetics of bisphenol S in humans after single oral administration. *Environment International*. 2018;112:127-33. doi: 10.1016/j.envint.2017.11.020.
9. Oh J, Choi JW, Ahn YA, Kim S. Response to the Letter to the Editor. *Environment International*. 2018;115:395-6. doi: 10.1016/j.envint.2018.03.043.
10. 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. *Science of the Total Environment*. 2018;612:286-92. doi: 10.1016/j.scitotenv.2017.08.094.
11. 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. Bisphenol A distribution in serum, urine, placenta, breast milk, and umbilical cord serum in a birth panel of mother-neonate pairs. *Science of the Total Environment*. 2018;626:1494-501. doi: 10.1016/j.scitotenv.2017.10.042.
12. Lee I, Kim S, Kim KT, Kim S, Park S, Lee H, Jeong Y, Lim JE, Moon HB, Choi K. Bisphenol A exposure through receipt handling and its association with insulin resistance among female cashiers. *Environment International*. 2018;117:268-75. doi: 10.1016/j.envint.2018.05.013.
13. Kim S, Lee S, Shin C, Lee J, Kim S, Lee A, Park J, Kho Y, Moos RK, Koch HM, Kim S, Choi K. Urinary parabens and triclosan concentrations and associated exposure characteristics in a Korean population? A comparison between night-time and first-morning urine. *International Journal of Hygiene and Environmental Health*. 2018;221(4):632-41. doi: 10.1016/j.ijheh.2018.03.009.
14. 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. 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. *Science of the Total Environment*. 2018;624:377-84. doi: 10.1016/j.scitotenv.2017.12.058.

15. Kim S, Cho YH, Lee I, Kim W, Won S, Ku JL, Moon HB, Park J, Kim S, Choi G, Choi K. Prenatal exposure to persistent organic pollutants and methylation of LINE-1 and imprinted genes in placenta: A CHECK cohort study. *Environment International*. 2018;119:398-406. doi: 10.1016/j.envint.2018.06.039.
16. Kim JH, Lee J, Moon HB, Park J, Choi K, Kim SK, Kim S. Association of phthalate exposures with urinary free cortisol and 8-hydroxy-2'-deoxyguanosine in early childhood. *Science of the Total Environment*. 2018;627:506-13. doi: 10.1016/j.scitotenv.2018.01.125.
17. Jeong Y, Lee S, Kim S, Park J, Kim HJ, Choi G, Choi S, Kim S, Kim SY, Kim S, Choi K, Moon HB. Placental transfer of persistent organic pollutants and feasibility using the placenta as a non-invasive biomonitoring matrix. *Science of the Total Environment*. 2018;612:1498-505. doi: 10.1016/j.scitotenv.2017.07.054.
18. 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. Current status of organochlorine pesticides (OCPs) and polychlorinated biphenyls (PCBs) exposure among mothers and their babies of Korea-CHECK cohort study. *Science of the Total Environment*. 2018;618:674-81. doi: 10.1016/j.scitotenv.2017.07.232.
19. Shin MY, Lee S, Choi H, Jeong DI, Moon HB, Kim S. Placental and lactational transfer of decabromodiphenyl ether and 2,2',4,4'-tetrabromodiphenyl ether in dam-offspring pairs of Sprague-Dawley rats. *Food and Chemical Toxicology*. 2017;102:198-203. doi: 10.1016/j.fct.2017.01.027.
20. Seo JE, Kim S, Kim BH. In vitro skin absorption tests of three types of parabens using a Franz diffusion cell. *Journal of Exposure Science and Environmental Epidemiology*. 2017;27(3):320-5. doi: 10.1038/jes.2016.33.
21. Park J, Ham S, Jang M, Lee J, Kim S, Kim S, Lee K, Park D, Kwon J, Kim H, Kim P, Choi K, Yoon C. Spatial-Temporal Dispersion of Aerosolized Nanoparticles during the Use of Consumer Spray Products and Estimates of Inhalation Exposure. *Environmental Science and Technology*. 2017;51(13):7624-38. doi: 10.1021/acs.est.7b00211.
22. Lee S, Tan YM, Phillips MB, Sobus JR, Kim S. Estimating methylmercury intake for the general population of South Korea using physiologically based pharmacokinetic modeling. *Toxicological Sciences*. 2017;159(1):6-15. doi: 10.1093/TOXSCI/KFX111.
23. Kishi R, Zhang JJ, Ha EH, Chen PC, Tian Y, Xia Y, Tsuchiya KJ, Nakai K, Kim S, Hong SJ, Hong YC, Lee JR, Jan Mohamed HJB, Parajuli RP, Adair LS, Chong YS, Guo YL, Wang SL, Nishijo M, Kido T, Tai PT, Nandasena S. Birth Cohort Consortium of Asia: Current and Future Perspectives. *Epidemiology (Cambridge, Mass)*. 2017;28:S19-S34. doi: 10.1097/EDE.0000000000000698.
24. Kim S, 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. Urinary phthalate metabolites over the first 15 months of life and risk assessment ? CHECK cohort study. *Science of the Total Environment*. 2017;607-608:881-7. doi: 10.1016/j.scitotenv.2017.06.244.
25. Kim JH, Park Y, Kim SK, Moon HB, Park J, Choi K, Kim S. Timing of an accelerated body mass increase in children exposed to lead in early life: A longitudinal study. *Science of the Total Environment*. 2017;584-585:72-7. doi: 10.1016/j.scitotenv.2017.01.122.
26. Choi W, Kim S, Baek YW, Choi K, Lee K, Kim S, Yu SD, Choi K. Exposure to environmental chemicals among Korean adults-updates from the second Korean National Environmental Health Survey (2012-2014). *International Journal of Hygiene and Environmental Health*. 2017;220(2):29-35. doi: 10.1016/j.ijheh.2016.10.002.
27. Walker DI, Uppal K, Zhang L, Vermeulen R, Smith M, Hu W, Purdue MP, Tang X, Reiss B, Kim S, Li L, Huang H, Pennell KD, Jones DP, Rothman N, Lan Q. High-resolution metabolomics of occupational exposure to trichloroethylene. *International Journal of Epidemiology*. 2016;45(5):1517-27. doi: 10.1093/ije/dyw218.
28. Shin MY, Lee S, Kim HJ, Lee JJ, Choi G, Choi S, Kim S, Kim SY, Park J, Moon HB, Choi K, Kim S. Polybrominated diphenyl ethers in maternal serum, breast milk, umbilical cord serum, and house dust in a South Korean birth panel of mother-neonate pairs. *International Journal of Environmental Research and Public Health*. 2016;13(8). doi: 10.3390/ijerph13080767.
29. 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. Association of diethylhexyl phthalate with obesity-related markers and body mass change from birth to 3 months of age. *Journal of Epidemiology and Community Health*. 2016;70(5):466-72. doi: 10.1136/jech-2015-206315.
30. Kim JH, Lee SJ, Kim SY, Choi G, Lee JJ, Kim HJ, Kim S, Park J, Moon HB, Choi K, Kim S, Choi SR. Association of food consumption during pregnancy with mercury and lead levels in cord blood. *Science of the Total Environment*. 2016;563-564:118-24. doi: 10.1016/j.scitotenv.2016.04.082.
31. 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. Occurrence and prenatal

- exposure to persistent organic pollutants using meconium in Korea: Feasibility of meconium as a non-invasive human matrix. *Environmental Research*. 2016;147:8-15. doi: 10.1016/j.envres.2016.01.033.
32. Yoo HS, Cichocki JA, Kim S, Venkatratnam A, Iwata Y, Kosyk O, Bodnar W, Sweet S, Knap A, Wade T, Campbell J, Clewell HJ, Melnyk SB, Chiu WA, Rusyn I. The Contribution of Peroxisome Proliferator-Activated Receptor Alpha to the Relationship Between Toxicokinetics and Toxicodynamics of Trichloroethylene. *Toxicological Sciences*. 2015;147(2):339-49. doi: 10.1093/toxsci/kfv134.
 33. 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. Synthetic musk compounds and benzotriazole ultraviolet stabilizers in breast milk: Occurrence, time-course variation and infant health risk. *Environmental Research*. 2015;140:466-73. doi: 10.1016/j.envres.2015.04.017.
 34. Kim S, Park J, Kim HJ, Lee JJ, Choi G, Choi S, Kim S, Kim SY, Moon HB, Kim S, Choi K. Association between several persistent organic pollutants and thyroid hormone levels in cord blood serum and bloodspot of the newborn infants of Korea. *PLoS ONE*. 2015;10(5). doi: 10.1371/journal.pone.0125213.
 35. Kim S, Park J, Kim HJ, Lee JJ, Choi G, Choi S, Kim S, Kim SY, Lee DH, Moon HB, Kim S, Choi K. Association between Several Persistent Organic Pollutants in Serum and Adipokine Levels in Breast Milk among Lactating Women of Korea. *Environmental Science and Technology*. 2015;49(13):8033-40. doi: 10.1021/acs.est.5b00520.
 36. 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. Concentrations of phthalate metabolites in breast milk in Korea: Estimating exposure to phthalates and potential risks among breast-fed infants. *Science of the Total Environment*. 2015;508:13-9. doi: 10.1016/j.scitotenv.2014.11.019.
 37. 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. Corrigendum to "Occurrence and exposure assessment of polychlorinated biphenyls and organochlorine pesticides from homemade baby food in Korea" [*Sci. Total Environ.* 470-471 (2014) 1370-1375]. *Science of the Total Environment*. 2014;494-495:351. doi: 10.1016/j.scitotenv.2014.07.012.
 38. Kim S, Kang S, Lee G, Lee S, Jo A, Kwak K, Kim D, Koh D, Kho YL, Kim S, Choi K. Urinary phthalate metabolites among elementary school children of Korea: Sources, risks, and their association with oxidative stress marker. *Science of the Total Environment*. 2014;472:49-55. doi: 10.1016/j.scitotenv.2013.10.118.
 39. 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. Infant exposure to polybrominated diphenyl ethers (PBDEs) via consumption of homemade baby food in Korea. *Environmental Research*. 2014;134:396-401. doi: 10.1016/j.envres.2014.08.018.
 40. 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. Occurrence and exposure assessment of polychlorinated biphenyls and organochlorine pesticides from homemade baby food in Korea. *Science of the Total Environment*. 2014;470-471:1370-5. doi: 10.1016/j.scitotenv.2013.07.071.
 41. 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. Occurrences of major polybrominated diphenyl ethers (PBDEs) in maternal and fetal cord blood sera in Korea. *Science of the Total Environment*. 2014;491-492:219-26. doi: 10.1016/j.scitotenv.2014.02.071.
 42. Rappaport SM, Kim S, Thomas R, Johnson BA, Bois FY, Kupper LL. Low-dose metabolism of benzene in humans: Science and obfuscation. *Carcinogenesis*. 2013;34(1):2-9. doi: 10.1093/carcin/bgs382.
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