CURRICULUM VITAE

NAME:	Winnie Wan-yee Tang
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EDUCATION AND TRAINING

Undergraduate

1997-2000	Chinese University of Hong Kong, Hong Kong	BSc, 2000	Biochemistry

Graduate

2000-2004	Chinese University of Hong Kong, Hong Kong	PhD, 2004	Biochemistry

Post-Graduate

2004-2005	University of Massachusetts Medical School, Massachusetts	Postdoctoral Fellow	Department of Surgery Prostate Cancer Research Program (Dr. Shuk-mei Ho's Lab)

APPOINTMENTS AND POSITIONS

Academic

2005-2010	Research Associate	Environmental Health, University of Cincinnati College of Medicine, Cincinnati, OH
2010-2016	Assistant Professor	Environmental Health Sciences, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD
2016-2019	Associate Professor	Environmental Health and Engineering, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD
2019-	Adjunct Associate Professor	Environmental Health and Engineering, Johns Hopkins University Bloomberg School of Public Health (JHSPH), Baltimore, MD
2020-	Associate Professor	Environmental and Occupational Health (EOH), University of Pittsburgh School of Public Health (PITT SPH), Pittsburgh, PA

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2002-2016	American Association for Cancer Research
2005-2016	Endocrine Society
2009-present	Society of Toxicology
2010-present	American Thoracic Society
2011-present	Environmental Mutagen Society

HONORS

2002-2004	Overseas Conference Grant, Chinese University of Hong Kong
2005	Travel Award and Outstanding Poster Award for Endocrine Society Annual Meeting
2006-2008	Postdoctoral Trainee Award, Prostate Cancer Research Program, Department of Defense, US Government
2007	Travel Award for Endocrine Disruptor Meeting, NIEHS
2007	Travel Award for Endocrine Society Annual Meeting
2008	Travel Award, Breast Cancer and Environmental Research Centre Annual Meeting, NIEHS
2008-2010	Director's Discretionary Award, Center of Environmental Genetics, University of Cincinnati College of Medicine
2008-2013	Pathway to Independence (PI) Award (K99/R00), NIEHS
2009	Outstanding Abstract and Poster Award, Endocrine Society Annual Meeting
2012-2013	Faculty Innovative Award, Johns Hopkins Bloomberg School of Public Health
2015-2016	Thomas and Carol McCann Innovation Research Fund Award, Johns Hopkins Bloomberg School of Public Health
2018-2019	Joint Research Fund Award for Overseas Chinese Scholars, National Natural Science Foundation of China
2018	Excellence in Teaching Award, Johns Hopkins Bloomberg School of Public Health
2019	Excellence in Teaching Award, Johns Hopkins Bloomberg School of Public Health
2021-2022	PITT Health Sciences Bridge Funding, University of Pittsburgh
2022-2023	EOH Pilot Grant, University of Pittsburgh School of Public Health

PROFESSIONAL ACTIVITIES

Teaching
Courses Taught

Years Taught	Course Number: Title	Hours of Lecture, credits Average Enrollment	Role in course Primary/Coordinator
2016-2018	JHSPH: Molecular Mechanisms & Pathophysiology Journal Club	20hrs, 1 credit, 20	Course Director
2016-2019	JHSPH: Molecular Toxicology	32hrs, 4 credits, 20	Course Director
2017-2019	JHSPH: Introduction to Molecular Toxicology (online)	24hrs, 3 credits, 25	Course Director
2018-2019	JHSPH: Advanced Topics in Toxicology and Physiology	8hrs, 1 credit, 10	Course Director
2018-2019	JHSPH: Introduction and Analysis of Environmental Genomics and Epigenomics	32hrs, 4 credit, 15	Course Director
2020-	PITT SPH: EOH Departmental Seminar	2hrs, N/A, 50	Seminar Coordinator
2021-	PITT SPH: Epigenetics and Epigenomics of Environmental Health	48hrs, 3 credit, 12	Course Director

Other Teaching (lectures, tutorials and continuing education courses)

Date(s)	Type of Teaching	Title
2012-2016	Lectures (JHSPH)	Epigenome, Kinome and Inflammasome
2014-2019	Lecture (JHSPH)	Environmental Epigenetics
2014-2016	Lecture (JHSPH)	Molecular Epidemiology : Epigenetics
2017	Lecture (JHSPH)	Epigenetics: Nature vs Nurture
2018-2020	Lecture (JHSPH)	Endocrinology and Reproductive Systems
2020-	Online Lecture (JHSPH)	Airway Smooth Muscle and Asthma
2020-	Online Lecture (JHSPH)	Environmental Epigenetics: Update and New Challenge
2020-	Online Lecture (JHSPH)	Endocrinology and Reproductive Systems
2021	Lecture (PITT SPH)	Impact of Environmental Exposures on Human Development

Major Advisor for Graduate Student Essays, Theses, and Dissertations

Name of Student	Degree Awarded, Year	Type of Document and Title	Notes
Tyna Dao	PhD, 2015	TET1-Mediated Hydroxymethylation and Airway Hyperresponsiveness	JHSPH Sommer Scholar
Cong Cong	MHS, 2017	Arsenic Toxicity: Its Epigenetic Effect on Pulmonary Diseases	JHSPH
Weizheng Mao	MHS, 2018	Mental Health Effects of Particulate Matters	JHSPH
Rohan Kuruvilla	ScM, 2020	Maternal Effect of Flame Retardant on Offspring Inflammatory Response	JHSPH
Joe Yracheta	DrPH candidate (2017-2021)	Arsenic, Genetics and Chronic Kidney Disease in American Indian Communities	JHSPH
Jairus Pulczinski	PhD, 2022	Epigenetic Effects of Maternal Exposures on Offspring Allergic Airway Disease	JHSPH-F31 awarded trainee
Joan Lee	DrPH candidate (2016-present)	Effects of Maternal Exposure to Environmental Pollutant PBDEs on Offspring Epigenome	JHSPH
Kristine Sun	PhD candidate (2020-present)	Crosstalk between mitochondria and epigenetic regulation of gene transcription	PITT-SPH (EOH)

Service on Masters or Doctoral Committees

Dates Served	Name of Student	Degree Awarded	Title of Dissertation/Essay
2010-2011	Michael J. Coronado (JHSPH)	PhD	Role of Testerone-Mediated Sex Differences in Myocarditis and Dilated Cardiomyopathy
2012-2016	Katelyn Bruno (JHSPH)	PhD	Effect of Environmentally-Derived Sex Steroids on Coxsackievirus B3 Myocarditis: Focus on Vitamin D And Bisphenol A
2013-2016	Xiao Xiao (JHSPH)	PhD	Metabolic Alterations in Airway Epithelium in Allergic Asthma
2014-2017	Fengrong Wang (JHSPH)	PhD	Insight into the Role of The Keratin Cytoskeleton During Collective Epithelial Cell Migration

Dates Served	Name of Student	Degree Awarded	Title of Dissertation/Essay
2015-2018	Merricka Livingstone (JHSPH)	PhD	Micrornas in Aflatoxin-Induced Hepatocellular Carcinoma and Chemoprevention: Sentinels of Disease Risk
2015-2018	Jessie Huang (JHSPH)	PhD	Making Sense Of Scents in The Lung: Odor Transduction in Human Airway Smooth Muscle
2016-2019	Kelvin Casin (JHSPH)	PhD	Sex Differences in Ischemia-Reperfusion Injury and Cardioprotection-Revisited: The Role of S-Nitrosoglutathione Reductase, S-Nitrosylation, and Formaldehyde Regulation
2017-2020	Dana Freeman (JHSPH)	PhD	Mechanistic Insights into Chromatin Mediated Gene Regulation in Rotenone-Induced Neurodegeneration
2020-2021	Heng Bai (PITT SPH)	PhD	Associations of Arsenic Exposure, Arsenic Metabolism, and Cadmium Exposure with Body Composition: Evidence from the Multi-Ethnic Study of Atherosclerosis
2022-present	Alexander James Schuyler (PITT SPH)	PhD	Airway epithelial resilience to environmental/oxidative threats: Intersections with Type-2 biology and racial inequity

Service on Comprehensive or Qualifying Examination Committees

Dates Served	Student Population	Type of Exam (Qualifying/Comprehensive)
2011-2019	2 DrPH students (Health Policy and Management, HPM), 1 DrPH, 10 PhD and 5 ScM students (Environmental Health and Engineering, EHE), 1 PhD student (Molecular Microbiology and Immunology, MMI)	Qualifying Exam (JHSPH)
2011-2019	2 DrPH students (HPM), 15 PhD students (EHE) and 1 PhD student (Biochemistry and Molecular Biology, BMB)	Final Defense Oral Exam (JHSPH)

Dates Served	Student Population	Type of Exam (Qualifying/Comprehensive)
2020-	2 PhD student (EHE)	Qualifying Exam (JHSPH)
2020-	2 PhD student (Environmental and Occupational Health, EOH)	Qualifying Exam (PITT SPH)

Supervision of Post-Doctoral Students, Residents, and Fellows

Dates Supervised	Name of Student	Position of Student
2010-2012	Shang Yan	Postdoctoral Fellow (JHSPH)
2012-2013	Jessica Hopkins	Graduate Student Research Assistant (JHSPH)
2012-2014	Melanie Nembhard	Graduate Student Research Assistant (JHSPH)
2014	Pilar Rentero-Garrido	Visiting Postdoctoral Fellow (University Of Valencia, Spain)
2014-2015	Qian Wu	Visiting Postdoctoral Fellow (Nanjing University School Of Public Health, China)
2016-2017	Xiaoqing Ouyang	Visiting Postdoctoral Fellow (Xiamen University, China)
2016-2017	Xiaolian Song	Visiting Resident (Shanghai Tenth People's Hospital Of Tongji University, Shanghai, China
2016-2018	Qinying Sun	Visiting Resident (Changhai Hospital, Shanghai, China)
2017-2018	Serene Roque	Graduate Student Research Assistant (JHSPH)
2018-2019	Kelly Griffiths	Graduate Student Research Assistant (JHSPH)
2018-2019	Yulan Qu	Visiting resident (Changhai Hospital, Shanghai, China)
2015-2019	Bonnie Yeung	Postdoctoral Fellow

Other Teaching and Training

Dates	Teaching Activity	Program/Description
2012-2016	Advised 5 diversity undergraduate students	Diversity Summer Internship Program, JHSPH
2018	Advised 1 summer intern	DREAM Program with the Chinese University of Hong Kong, Hong Kong
2017-2021	Advised 1 undergraduate student	Undergraduate Research Program, Johns Hopkins University (Moira McCormick, Molecular & Cellular Biology, JHU Class of 2021)

Dates	Teaching Activity	Program/Description
2022	Advised summer intern	Public Health Science Academy Summer Program, PITT (10th and 11th grade students)

Research and Training
Grants and Contracts Received
Principal Investigator

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2006-2008	Postdoctoral Trainee Award, W81XWH-06-1-0373, Investigation of a putative estrogen-imprinting gene, phosphodiesterase type IV variant, in determining prostate cancer risk	Department of Defense Prostate Cancer Research Program, U.S Government	62,500	100
2008-2010	Director Discretionary Award, Bisphenol A and epigenetic regulation of gene expression	Centre of Environmental Genetics, University of Cincinnati College of Medicine	42,000	10
2008-2010	Pathway to Independence Award, K99ES016817,Estrogens/Xenoestrogens and epigenetic regulation of gene expression	NIEHS	82,500	75
2010-2013	Pathway to Independence Award, R00ES016817,Estrogens/Xenoestrogens and epigenetic regulation of gene expression	NIEHS	249,999	75
2012-2013	Faculty Innovation Award, Epigenetic modulations of lung mesenchymal stem cells in mice exposed to house-dust-mite	JHSPH	32,000 (No salary support)	N/A
2015-2016	Innovation Award, How early life exposure to allergens set up the “asthma epigenome” in offspring?	Thomas and Carol McCann Research Fund	25,000 (No salary support)	N/A

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2016-2019	Subcontract PI of NIH Research Project Grant, R01ES025216, Arsenic, epigenetics and cardiovascular disease in American Indian communities (PI: Navas-Acien)	NIEHS	86,476	10
2015-2021	NIH Research Project Grant, R01ES024784, TET1-mediated 5-hydroxymethylcytosine modification and airway hyperresponsiveness	NIEHS	224,825	20
2021-2022	PITT Health Sciences Bridge Funding Mitochondrial-epigenetic crosstalk in regulation of airway hyperresponsiveness	PITT	50,000	N/A

Multiple Principal Investigator

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2017-2019	NIH Exploratory/Developmental Research Grant, R21ES028351, Window of Susceptibility for Epigenetic Programming and Asthma (MPI: Tang (contact), Wang)	NIEHS	137,500	15

Co-Investigator on Grants

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2012-2013	Pilot Project Award, Saliva DNA methylation (PI: Granger)	JHSPH Population Center	30,000	5
2016-2018	NIH Exploratory/Developmental Research Grant, R21HD085556, Prenatal Multi-Level Stressors and Alterations in Maternal and Fetal Epigenomes (PI: Surkan and X. Wang)	NICHD	137,500	4

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2016-2021	NIH Research Project Cooperative Agreement, U01ES026721, Epigenomics of Air Pollution driven Inflammation, Obesity and Insulin Resistance (PI: Biswal)	NIEHS	325,506	5
2016-2021	NIH Research Project, R01HL133100, Leptin signaling in the carotid body: mechanisms and consequences (PI: Polotsky)	NHLBI	422,361	7
2016-2020	NIH Research Project Grant, R01ES025761, Exposure-altered gene expression in five candidate imprinted loci for adult disease (PI: Z. Wang)	NIEHS	225,000	5
2019-2020	NIH Small Grant Program, R03ES029594, In Utero Exposure to Metals and Vitamins B on Placenta and Child Cardiometabolic Outcomes (PI: G. Wang)	NICHD	50,000	1
2021-2025	NIH Research Project, Renewal of R01HL133100, Leptin signaling in the carotid body: mechanisms and consequences (PI: Polotsky)	NHLBI	500,000	10
2021-2026	NIH Research Project, R01ES033519, Dysfunctional skeletal muscle communication in arsenic-promoted cardiometabolic disease (PI: Barchowsky)	NIEHS	430,944	5
2022-2026	NIH PO1 Research Project, Renewal of P01AI106684, Immune Airway-Epithelial Interactions in Steroid-Refractory Severe Asthma	NIAID	1,161,490	10

Invited Lectureships and Major Seminars Related to Your Research

Date	Title of Presentation	Venue
2006	Early developmental exposures to estrogen/bisphenol A impact a specific prostate epigenome	37th Annual Meeting of Environmental Mutagen Society

Date	Title of Presentation	Venue
2007	Early exposure to diethylstilbestrol or genistein and uterus cancer risk: investigating nucleosomal binding protein 1 (Nsbp1) as a gene susceptible to estrogen reprogramming in mouse uterus	Endocrine Society Annual Meeting
2009	Epigenetic markers for transplacental exposure to airborne polycyclic aromatic hydrocarbons (PAHs) and childhood asthma, Workshop for use of emerging science and technologies to explore epigenetic mechanisms underlying the developmental basis for disease	Board on life sciences, The National Academies
2009	Early developmental exposures to estrogens/bisphenol A impact a specific prostate epigenome	Society of Toxicology Annual Meeting
2010	Bisphenol A beyond its estrogen action: a methylome study	Endocrine Society Annual Meeting
2011	Investigation of epigenetic changes in house dust mite (HDM)-Induced Asthma	International Conference of the American Thoracic Society
2011	Emerging science and technologies to explore epigenetic mechanisms: Better understanding of human diseases	42nd Annual Meeting of the Environmental Mutagen Society
2012	The impact of DNA methylation in asthma	The 3rd Shanghai Oriental Respiratory International Conference
2013	Epigenetics: From bench to policy to promote early childhood health	Pediatric Academic Societies Annual Meeting
2016	Oxidative stress, DNA hydroxymethylation and asthma: How they are linked	NIEHS 50th Anniversary Meeting
2017	Maternal exposure to polybrominated diphenyl ethers (PBDEs), epigenomics and developmental changes	12th International Conference on Environmental Mutagens
2018	Epigenetic regulation of asthma	The 2nd Young Scientist Forum, Nanjing Medical University
2018	Epigenetics: How gene interacts with the environment (PBDEs and Methylome)	United States Department of Agriculture

PUBLICATIONS

Refereed Articles

†Corresponding author; #Mentee (Students or postdocs)

1. **Tang, W.Y.,** Chau, S.P., Tsang, W.P., Kong, S.K. and Kwok, T.T. (2004) The role of Raf-1 in radiation resistance of human hepatocellular carcinoma Hep G2 cells. *Oncol Rep*. 12(6):1349-1354. PMID:15547762.
2. **Tang, W.Y.*,** Ho, S.*, Belmonte, J. and Prins, G.S. (2006) Developmental exposure to estradiol and bisphenol A increases susceptibility to prostate carcinogenesis and epigenetically regulates phosphodiesterase type 4 variant 4. *Cancer Research*. 66(11):5624-5632 *** co-authorship** PMID:16740699.
3. Mak, P., Leung, Y.K., **Tang, W.Y.,** Harwood, C.M. and Ho, S. (2006) Apigenin suppresses cancer cell growth via ER beta. *Neoplasia.* 8(11):896-904. PMID:17132221.
4. Prins, G.S., **Tang, W.Y.**, Belmonte, J. and Ho, S. (2007) Perinatal exposure to estradiol and bisphenol A alters the prostate epigenome and increases susceptibility to carcinogenesis. *Basic & Clinical Pharmacology & Toxicology*. 102(2):134-138. PMID:18226066.
5. Prins, G.S., **Tang, W.Y.**, Belmonte, J. and Ho, S. (2008) Developmental exposure to bisphenol A increases prostate cancer susceptibility in adult rats: epigenetic mode of action is implicated. *Fertility and Sterility*. 89 (2 Suppl):e41. PMID:18308059.
6. **Tang, W.Y,** Newbold, R., Mardilovich, K., Jefferson, W., Cheng, R., Medvedovic, M., and Ho, S. (2008) Persistent hypomethylation in the promoter of nucleosomal binding protein (*Nsbp1*) correlates with *Nsbp1* overexpression in mouse uteri neonatally exposed to diethylstilbestrol or genistein. *Endocrinology.* 149(12):5922–5931. PMID: 18669593.
7. Tsang, T.Y., **Tang, W.Y.,** Tsang, W.P., Co, N.N., Kong, S.K. and Kwok, T.T. (2008) Down regulation of hepatoma-derived growth factor activates the Bad-mediated apoptotic pathway in human cancer cells. *Apoptosis*. 13 (9):1135-1147. PMID:21336967.
8. **Tang, W.Y.***, Perera, F.*, Herbstman, J.B., Tang, D.T., Levin, L., Miller, R. and Ho, S. (2009) Relation of DNA methylaton of 5'-CpG island of ACSL3 to transplacental exposure to airborne polycyclic aromatic hydrocarbons and childhood asthma. *PLoS One*. 4(2):e4488. *** co-authorship**. PMID:19221603.
9. Tsang, T.Y., **Tang, W.Y.,** Tsang, W.P., Co, N.N., Kong, S.K. and Kwok, T.T. (2009) Mechanistic study on growth suppression and apoptosis induction by targeting hepatoma derived growth factor in human hepatocellular carcinoma HepG2 cells. *Cellular Physiology and Biochemistry*. 24:253-262. PMID:19710540.
10. Tsang, T.Y., **Tang, W.Y.,** Chan, J.Y., Co, N.N., Au Yeung, C.L., Yau, P.L., Kong, S.K., Fung, K.P. and Kwok, T.T. (2011) P-glycoprotein enhances radiation-induced apoptotic cell death through the regulation of miR-16 and Bcl-2 expressions in hepatocellular carcinoma cells. *Apoptosis*. 16(5):524-535. PMID:21336967.
11. Wu, T.Y., Giovannucci, E., Weldge, J., Mallick, P., Lemasters, G., **Tang, W.Y**. and Ho, S. (2011) Measurement of GST-P1 methylation in body fluids may complement PSA screening for prostate cancer: implication of using plasma and urine samples: a meta-analysis. *Br J Cancer*. 105(1):65-73. PMID:21654682.

12. **Tang, W.Y.,** Morey, L., Cheung, Y.Y., Belmonte, J., Prins, G.S., and Ho, S. (2012) Neonatal exposure to 17β-estradiol/bisphenol A alters promoter methylation and expression of Nsbp1 and Hpcal1 genes and transcriptional programs of Dnmt3a/b and Mbd2/4 in the rat prostate gland throughout life. *Endocrinology*. 153(1):42-55. PMID:22109888.
13. **Tang, W.Y.**, Levin, L., Talaska, G., Cheung, Y.Y., Herbstman, J.B., Miller, R., Perera, F., and Ho, S. (2012) Maternal exposure to polycyclic aromatic hydrocarbons is associated with methylation at a 5'-CpG island of interferon-γ in cord white blood cells. *Environ Health Perspect*. 120(8): 1195–1200. PMC3440069.
14. Tankersley, C.G., Georgakopoulos, D., **Tang, W.Y.,** and Sborz, N. (2012) Effects of ozone and particulate matter on cardiac mechanics: role of the atrial natriuretic peptide gene. *Toxicol Sci*. 131(1):95-107. PMID:22977167.
15. Shang, Y.[#], Das, S., Xiao, X., Rabold, R., Mitzner, W. and **Tang, W.Y**[†]**.** (2013) Investigation of DNA methylation changes in house-dust-mite (HDM) induced asthma. *Am J Respir Cell Mol Biol*. 49(2):279-287. PMID:23526225.
16. Gribble, M., **Tang, W.Y.**♠ Shang, Y.[#], Pollak, J., Umans, J., Francesconi, K.A., Goessler, W., Silbergeld, E.K, Guallar, E., Cole, S., Fallin, D., and Navas-Acien, A. (2013) Differential methylation of the arsenic (III) methyltransferase promoter according to arsenic exposure. *Arch Toxicol*. 88(2):275-282. PMID:24154821.♠Supervise the design and data analysis for the DNA methylation study
17. Cheng, R.Y.S., Shang, Y.[#], Limjunyawong, N., Dao, T.[#], Das, S., Rabold, R., Sham, J., Mitzner, W. and **Tang, W.Y.**[†] (2014) Alterations of the lung methylome in allergic airway hyper-responsiveness. *Environ Mol Mutagen*. 55(3):244-255. PMID:24446183.
18. Tellez-Plaza, M., **Tang, W.Y.**♠**,** Shang, Y.[#], Umans JG., Francesconi, KA., Goessler, W., Pollak, J., Guallar, E., Cole, S., Fallin, D. and Navas-Acien, A. (2014) Global DNA methylation and global DNA hydroxymethylation in a population-based pilot sample from the Strong Heart Study. *Environ Health Perspect.* 122(9):946-54. PMID 24769358. ♠Supervise the design and data analysis for the DNA methylation study
19. Dao, T.[#], Hong, X., Wang, X. and **Tang, W.Y.**[†] (2015) Maternal exposure to polybrominated diphenyl ethers and DNA methylation of cord blood metabolism-related genes. *PLoS One.* 10(9):e0138815. PMID:26406892.
20. Lin, H.Y., Shang, Y.[#], Mitzner, W., Sham, J.S.K., and **Tang, W.Y.**[†] (2016) Aberrant DNA Methylation of Phosphodiestarase 4D Alters Airway Smooth Muscle Cell Phenotypes *Am J Respir Cell Mol Biol.* 54(2):241-249. PMID:26181301.
21. An, S.S., Mitzner, W., **Tang, W.Y.**♠, Ahn, K., Yoon, A.R., Huang, J., Kilic, O., Yong, H.M., Fahey, J.W., Kumar, S., Biswal, S., Holgate, S.T., Panettieri, R.A., Solway, J. and Liggett, S.B. (2016) An inflammation-independent contraction mechanophenotype of airway smooth muscle in asthma. *Journal of Allergy & Clinical Immunology.* 138(1):294-297.e4. PMID: 26936804♠Discuss the possible epigenetic mechanisms underlying regulation of ASM phenotypes
22. Cheong A, Zhang X, Cheung YY, **Tang, W.Y**♠**,** Chen J, Ye SH, Medvedovic M, Leung YK, Prins GS, Ho SM. (2016) DNA methylome changes by estradiol benzoate and bisphenol A links early-life environmental exposures to prostate cancer risk. *Epigenetics.* 11(9):674-689.

PubMed PMID: 27415467♠Discuss the possible epigenetic role of fetal origin of prostate disease

23. Surkan, P.J., Dong, L., Ji, Y., Hong, X., Ji, H., Kimmel, M., **Tang, W.Y♠.** and Wang, X. (2017) Paternal involvement and support and risk of preterm birth: findings from the Boston birth cohort. *J sychosomObstet Gynaecol*. 16:1-9. PMID: 29144191.♠Discuss the possible epigenetic mechanisms underlying regulation of preterm birth
24. Wang, T., Pehrsson, E.C., Purushotham, D., Li, D., Zhuo, X., Zhang, B., Lawson, H.A., Province, M.A., Krapp, C., Lan, Y., Coarfa, C., Katz, T.A., **Tang, W.Y♠.,** Wang, Z., Biswal, S., Rajagopalan, S., Colacino, J.A., Tsai, Z.T., Sartor, M.A., Neier, K., Dolinoy, D.C., Pinto, J., Hamanaka, R.B., Mutlu, G.M., Patisaul, H.B., Aylor, D.L., Crawford, G.E., Wiltshire,T., Chadwick, L.H., Duncan, C.G., Garton, A.E., McAllister, K.A. Bartolomei, M.S., Walke,r C.L., Tyson, F.L. (2018) The NIEHS TaRGET II Consortium and environmental epigenomics. *Nat Biotechnol*. 36:225-227. PubMed PMID: 29509741.♠Supervise the design for arsenic exposure in one of consortium's project
25. Riffo-Campos, A., Garcia-Fuentes, A., **Tang, W.Y.,** García, Z., De Marco, G., Rentero-Garrido, P., Felici, V., Lendinez, V., Francesconi, K., Goessler, W., Ladd-Acosta, C., Leon-Latre, M., Casasnovas, J., Chaves, J., Navas-Acien, A., Guallar, E., and Tellez-Plaza, M. (2018) In silico environmental epigenetics of metals and subclinical atherosclerosis in middle age men: preliminary results from the AWHS study. *Philosophical Transactions of The Royal Society B Biological Sciences.* 373(1748):20170084. PMID:29685964.
26. Zhang, B., Hong, X. , Ji, H. , **Tang, W.Y.♠**, Kimmel, M.,, Ji, Y., Pearson, C., Zuckerman, B., Surkan, P.J. and Wang, X.B. (2018) Maternal Smoking during Pregnancy and Cord Blood DNA Methylation: New Insight on Sex Differences and Effect Modification by Maternal Folate Epigenetics, *Epigenetics*. 13(5):505-518. PubMed PMID: 29945474; PubMed Central PMCID: PMC6140808.♠Discuss the possible epigenetic mechanisms underlying regulation of preterm birth
27. Fink, A.L., Engle, K., Ursin, R.L., **Tang, W.Y♠**. and Klein, S.L. Biological sex affects vaccine efficacy and protection against influenza in mice. (2018) *Proc Natl Acad Sci U S A*. 115(49):12477-12482 PubMed PMID: 30455317. ♠Supervise the design and data analysis for the DNA methylation study
28. Sahu, A., Mamiya, H., Shinde, S.N., Cheikhi, A., Winter, L.L., Vo, N.V., Stolz, D., Roginskaya, V., **Tang, W.Y♠**, St Croix, C., Sanders, L.H., Franti, M., Van Houten, B., Rando, T.A., Barchowsky, A. and Ambrosio, F. (2018) Age-related declines in α-Klotho drive progenitor cell mitochondrial dysfunction and impaired muscle regeneration. *Nat Commun.* 9(1):4859. PubMed PMID: 30451844 ♠Supervise the design and data analysis for the DNA methylation and histone modifications study
29. Caballero-Eraso, C., Shin, M.K., Pho, H., Kim, L.J., Pichard, L.E., Wu, Z.J., Gu, C., Berger, S., Pham, L., Yeung, H.B., Shirahata, M., Schwartz, A.R., **Tang, W.Y.♠**, Sham, J.S.K. and Polotsky, V.Y. (2019) Leptin acts in the carotid bodies to increase minute ventilation during wakefulness and sleep and augment the hypoxic ventilatory response. *J Physiol*. 597(1):151-172. PubMed PMID: 30285278.♠Discuss the possible role of leptin on regulation of sleep apnea

30. Cheikhi, A., Wallace, C., Croix, C.S., Cohen, C., **Tang, W.Y.♠,** Wipf, P., Benos, P.V., Ambrosio, F. and Barchowsky, A. (2019) Mitochondria are a Substrate of Cellular Memory. *Free Radic Biol Med.* 130:528-541. PubMed PMID: 30472365. ♠Supervise the design and data analysis for the DNA methylation and histone modifications study

31. Surkan, P.J, Hong, X., Zhang, B., Nawa, N., Ji, H., **Tang, W.Y.♠**, Ji, Y., Kimmel, M.C., Wang, G., Pearson. C. and Wang, X. (2019) Can social support during pregnancy affect maternal DNA methylation? Findings from a cohort of African-Americans. *Pediatr Res.* PubMed PMID: 31349361

    ♠Discuss the possible epigenetic effect of social support on maternal health

32. Wu, Q.[#], Odwin-Dacosta, S., Cao, S., Yager, J.D. and **Tang, W. Y.** [†] (2019) Estrogen down regulates COMT transcription via promoter DNA methylation in human breast cancer cells, *Toxicology and Applied Pharmacology.* 15;367:12-22. PMID: 30684530

33. Shin, M.K., Pichard, L.E., Caballero Eraso, C., Gu, C., Yeung, B.H. [#], Mu1, Y.P., Wu, Z., Paudel, O., Liu, X.,Shirahata, M., **Tang, W.Y**.♠, Sham, J.S.K., and Polotsky, V.Y. (2019) Leptin induces hypertension acting on transient receptor potential melastatin 7 (Trpm7) channel in the carotid body, *Circ Res.* 125(11):989-1002. PMID: 31545149 ♠Supervise the design and data analysis for molecular assays of lepr and Trpm7 in carotid body

34. Yeung, B.H[#], Huang, J., An, S.S., Solway, J., Mitzner, W., **Tang, W.Y.** [†]. (2020) Role of Isocitrate Dehydrogenase 2 on DNA Hydroxymethylation in Human Airway Smooth Muscle Cells. *Am J Respir Cell Mol Biol*. Jul;63(1):36-45 PMID: 32150688. ** accompanied by an editorial, Huang S. A Fresh Take on the "TCA" Cycle: TETs, Citrate, and Asthma. Am J Respir Cell Mol Biol. 2020 PMID: 32223718

35. Bozack, A.K., Tellez-Plaza, M., Haack, K., Gamble, M.V., Domingo-Relloso, A., Umans, J.G., Best, L.G., Yracheta, J., Gribble, M.O., Cardenas, A., Francesconi, K.A., Goessler, W., **Tang, W.Y.♠,** Fallin, M.D., Cole, S.A. and Navas-Acien, A. (2020) Locus-specific differential DNA methylation and urinary arsenic: An epigenome-wide association study in blood among adults with low-to-moderate arsenic exposure. *Environ Health Perspect.* 128(6):67015. PMID: 32603190 ♠Discuss the design and data analysis for the DNA methylation study

36. Hong, X., Zhang, B., Ji, H., **Tang, W.Y.♠**, Kimmel, M., Ji, Y., Pearson, C., Zuckerman, B., Surkan, P.J. and Wang, X.B. (2020) Genome-wide Association Study Identifies a Novel Maternal Gene × Stress Interaction Associated with Spontaneous Preterm Birth. *Pediatr Res.* 2020 Jul 29. Epub ahead of print. PMID: 32726798 ♠Discuss the possible epigenetic mechanisms underlying regulation of preterm birth

37. Domingo-Relloso, A., Riffo-Campos, A. L., Haack, K., Rentero-Garrido, P., Ladd-Acosta, C., Fallin, D. M., **Tang, W. Y**. ♠, Herreros-Martinez, M., Gonzalez, J. R., Bozack, A. K., Cole, S. A., Navas-Acien, A., & Tellez-Plaza, M. (2020). Cadmium, Smoking, and Human Blood DNA Methylation Profiles in Adults from the Strong Heart Study. *Environmental health perspectives,* 128(6), 67005. PMID: 32484362 ♠Discuss the design and data analysis for the DNA methylation study

38. Anguiano, T., Sahu, A., Qian, B., **Tang, W.Y.♠,** Ambrosio, F., & Barchowsky, A. (2020). Arsenic Directs Stem Cell Fate by Imparting Notch Signaling into the Extracellular Matrix

Niche. *Toxicological sciences* Advance online publication. PMID: 32647881♠Supervise the design and data analysis for the DNA methylation and histone modifications study

39. Crocker, K. C., Domingo-Relloso, A., Haack, K., Fretts, A. M., **Tang, W.Y.♠,** Herreros, M., Tellez-Plaza, M., Daniele Fallin, M., Cole, S. A., & Navas-Acien, A. (2020). DNA methylation and adiposity phenotypes: an epigenome-wide association study among adults in the Strong Heart Study. *International journal of obesity*. 2020 Nov;44(11):2313-2322. Advance online publication. PMID: 32728124♠Discuss the design and data analysis for the DNA methylation study
40. Wang, G., **Tang, W.Y. ♠**, Ji,H., and Wang, X.B. (2021), Prenatal exposure to mercury and precocious puberty: a prospective birth cohort study. *Human Reproduction*, PMID: 33367618. ♠Discuss the impact of early exposure to mercury on preterm birth
41. Wang, G., **Tang, W.Y. ♠**, Wills-Karp, M., Ji, H., Bartell, T,R,, Ji, Y., Hong, X., Pearson, C., Cheng, T.L. and Wang, X. (2021) A Nonlinear Relation Between Maternal Red Blood Cell Manganese Concentrations and Child Blood Pressure at Age 6-12 y: A Prospective Birth Cohort Study. *J Nutr.* 2021 PMID: 33438012. ♠Discuss the impact of manganese on childhood health
42. Shin, M.K., Mitrut, R., Gu, C., Kim, L., Yeung, B.[#], Lee, R., Pham, L., **Tang, W.Y**., Sham, J., Cui, H. and Polotsky, V. (2021) Pharmacological and Genetic Blockage of Trpm7 in the Carotid Body Treats Obesity-Induced Hypertension. *Hypertension,* May 17 2021. PMID: 33993722 ♠Supervise the design and data analysis for molecular assays of Trpm7 in carotid body
43. Pulczinski, J.[#], Shang, Y.[#], Dao, T.[#], Limjunyawong, N., Sun, Y.[#], Mitzner, W., Cheng, R.Y.S., and **Tang, W.Y.†.** (2021) Multigenerational Epigenetic Regulation of Allergic Diseases: Utilizing an Experimental Dust Mite-Induced Asthma Model. *Frontiers in Genetics,* PMID: 33868365
44. Yeung, B.H.[#], Griffiths, K.[#], Berger, L., Paudel, O., Shin, M.K., Rui, L., Sham, J.S.K., Polotsky, V.Y., **Tang, W.Y.†** (2021) Leptin Induces Epigenetic Regulation of Transient Receptor Potential Melastatin 7 in PC12 Cells. *Am J Respir Cell Mol Biol*. 2021 Apr 23. Epub ahead of print. PMID: 33891828. ** accompanied by an editorial, Lingappan K. Does the Epigenome Hold Clues to Leptin-associated Hypertension in Obesity? Am J Respir Cell Mol Biol. 2021 PMID: 34029509
45. Navas-Acien A, Domingo-Relloso A, Subedi P, Riffo-Campos AL, Xia R, Gomez L, Haack K, Goldsmith J, Howard BV, Best LG, Devereux R, Tauqeer A, Zhang Y, Fretts AM, Pichler G, Levy D, Vasan RS, Baccarelli AA, Herreros-Martinez M, **Tang WY**, Bressler J, Fornage M, Umans JG, Tellez-Plaza M, Fallin MD, Zhao J, Cole SA. Blood DNA Methylation and Incident Coronary Heart Disease: Evidence From the Strong Heart Study. JAMA Cardiol. 2021 Aug 4:e212704. Epub ahead of print. PMID: 34347013; PMCID: PMC8340006. ♠Discuss the design and data analysis for the DNA methylation study

Books and Book Chapters

1. Cheng, R.Y.S. and **Tang, W.Y**. (2012) 'Environment, epigenetics and diseases.' In: *Toxicology and Epigenetics*. Edited by Saura C. Sahu, The John Wiley and Sons Ltd, pp5-24.

2. **Tang, W.Y.**, Shirahata, M., and Kostuk, E.W. (2015) 'A short-term fasting in neonates induces breathing instability and epigenetic modification in the carotid body' In: *Arterial Chemoreceptors in Physiology and Pathophysiology, Advances in Experimental Medicine and Biology 860.* Edited by Chris Peers and Nanduri Prabhakar, The Springer International Publishing Switzerland 2015, pp187-193.
3. Shirahata, M., **Tang, W.Y.**, Shin, M.K. and Polotsky, V.Y. (2015) 'Is the Carotid Body a Metabolic Monitor?' In: *Arterial Chemoreceptors in Physiology and Pathophysiology, Advances in Experimental Medicine and Biology 860.* Edited by Chris Peers and Nanduri Prabhakar, The Springer International Publishing Switzerland 2015, pp153-159.
4. Pulczinski, J.[#], Yeung, B.H.Y.[#], Wu, Q., Cheng, R.Y.S and **Tang, W.Y. †** (2018) 'DNA Hydroxymethylation: Implications for Toxicology and Epigenetic Epidemiology', In: *ToxicoEpigenetics: Core Principles and Applications*, Edited by Shaun McCullough and Dana Dolinoy, Elsevier 2018, pp191-214.
5. Pulczinski, J.[#], Mccormick, M.[#], Sun, Y.[#], Watfa, M., Cheng, R.Y.S and **Tang, W.Y.** † (2021) 'Epigenetic Biomarkers Links to Maternal Exposure and Offspring Health Outcomes', In: Genomic and Epigenomic Biomarkers of Toxicology and Disease: Clinical and Therapeutic Actions, Edited by Saura C. Sahu, The John Wiley and Sons Ltd

Editorial

O'Hagan, H.M. and **Tang, W.Y.** (2014) Increased understanding of the impact of environmental exposures on the epigenome. Special Issue on Environmental Epigenomics. *Environ Mol Mutagen.* Apr; 55(3):151-154. PMID:24339126.

Review Articles

1. Ho, S. and **Tang, W.Y.** (2007) Techniques used in studies of epigenome dysregulation due to aberrant DNA methylation: an emphasis on fetal-based adult diseases. *Reproductive Toxicology*. 23(3):267-282. PMID:17317097.
2. **Tang, W.Y.** and Ho, S. (2007) Epigenetic reprogramming and imprinting in origins of disease. *Reviews in Endocrine and Metabolic Disorder*. 8(2):173-82. PMID:17638084.
3. Dao, T.[#], Cheng, R.Y.S., Revelo, P., Mitzner, W., and **Tang, W.Y.**† (2014) Hydroxymethylation as a novel environmental biosensor. *Curr Environ Health Rep*. 1(1):1-10. PMID:24860723.
4. Ruiz-Hernandez, A., Kuo, C., Rentero-Garrido, P., **Tang, W.Y.**, Redon, J., Ordovas, J.M., Navas-Acien, A. and Tellez-Plaza, M. (2015). Environmental chemicals and DNA methylation in adults: a systematic review of the epidemiologic evidence. *Clin Epigenetics.* 7(1):55. Review. PMID 25984247.
5. Martos, S., **Tang, W.Y.**, and Wang, Z.B. (2015) Elusive inheritance: Transgenerational effects and epigenetic inheritance in human environmental disease. *Prog Biophys Mol Biol.* 118(1-2):44-54. Review. PMID:25792089.

Poster Presentation

1. **Tang, W.Y**., Tsang, W.P., Chau, P.Y. and Kwok, T.T. The role of Raf signaling pathway in radiation resistance of human hepatocellular carcinoma HepG2 cells, *94th Annual Meeting of American Association for Cancer Research* 2003

2. **Tang, W.Y.,** Chau, P.Y. and Kwok, T.T. Minichromosome maintenance 3 (MCM3) and
3. radiation resistance in human hepatocellular carcinoma HepG2 cells, *95th Annual Meeting of American Association for Cancer Research* 2004
4. **Tang, W.Y.,** Prins, G.S., Belmonte, J. and Ho, S. Discovery of phosphodiesterase type 4 variant (PDE4D4) as a gene susceptible to neonatal imprinting by estrdiol or bisphenol A in the rat prostate, Endocrine Disruptors Workshop, *Endocrine Society Annual Meeting* 2005
5. **Tang, W.Y.,** Prins, G.S., Belmonte, J. and Ho, S. Neonatal estradiol or bisphenol A (BPA) exposure increases susceptibility to adult-induced prostate carcinogenesis: association with epigenetic changes in gene methylation patterns and phosphodiesterase type 4 expression, *Environmental Epigenomics Conference* 2005
6. **Tang, W.Y.,** Prins, G.S., Belmonte, J. and Ho, S. Neonatal exposure to estradiol or bisphenol A epigenetically alters phosphodiesterase type IV variant 4 (PDE4D4) and increases susceptibility to adult-induced prostate carcinogenesis, *97th Annual Meeting of American Association for Cancer Research* 2006
7. **Tang W.Y.**, Ho, S. Bisphenol A demethylates PDE4D4 promoter and reactivates gene transcription in a rat epithelial cell line (NbE-1) via up-regulation of DNA demethylases, *NIEHS/EPA Endocrine Disruptor Meeting* 2007
8. **Tang, W.Y,** Newbold, R., Mardilovich, K., Jefferson, W., Cheng, R., Medvedovic M., and Ho, S. Persistent hypomethylation in the promoter of nucleosomal binding protein (Nsbp1) correlates with Nsbp1 overexpression in mouse uteri neonatally exposed to diethylstilbestrol or genistein, *NIEHS Annual Environmental Health Sciences Core Centers Meeting* 2008
9. **Tang W.Y.,** Barker, J., Prins, G. and Ho, S. Bisphenol A demethylated rat PDE4D4 promoter via alteration of expression levels of demethylases, *99th Annual Meeting of American Association for Cancer Research* 2008
10. **Tang, W.Y.,** Revelo, M.P., Levin, L., and Ho, S. A new signature for prostate cancer risk disparity: differential methylation of phosphodiesterase IV variant 4 between black and white-Americans. *Endocrine Society Annual Meeting* 2009
11. Shang, Y.[#], Mitzner, W. and **Tang, W.Y**. Relation of DNA methylation in lung genome and asthma induced by house dust mite. *Annual Meeting of American Thoracic Society* 2012
12. Dao, T. [#], Cheng, R.Y.S., Hong, X., Wang, X. and **Tang, W.Y.** Epigenetic mechanisms of environmental estrogens corruption of immune functions, *Annual Meeting of Society of Toxicology* 2013
13. Dao, T. [#], Nembald, M., Hopkins, J., Mitzner, W. and **Tang, W.Y**. Epigenetic regulation of transforming growth factor Beta2 in airway smooth muscle cells, *Annual Meeting of American Thoracic Society* 2014
14. **Tang, W.Y.**, Dao, T. [#], Limjunyawong, J., Rabold, R., and Mitzner, W. TET1-mediated 5-hydroxymethylcytosine modification and airway hyperresponsiveness, *Annual Meeting of American Thoracic Society* 2014
15. Sham, J.S.K., Paudel, O., **Tang, W.Y.** Epigenetic Regulation of the Anti-Proliferative Transient Receptor Potential Melastatin 8 (TRPM8) Channels of Pulmonary Arterial Smooth Muscle Cells in Hypoxic Pulmonary Hypertension. *Annual Meeting of American Thoracic Society* 2016

16. **Tang, W.Y.**, , Limjunyawong, J., Dao, T.[#], Yeung, B.H.Y[#]. and Mitzner, W. In utero epigenetic programming and asthma pathogenesis, *Annual Meeting of American Thoracic Society* 2016
17. Yeung, B.H.Y[#], Dao, T.[#], Huang, J. An, S. and **Tang, W.Y.** Modulation of airway smooth muscle cell functions via isocitrate dehydrogenase 2 and TET-mediated hydroxymethylation, *Annual Meeting of American Thoracic Society* 2016
18. Yeung, B.H.Y.[#], Lee, L.[#], Sun, Q., Pulczinski, J.[#], Loube, J., Mitzner, W and **Tang, W.Y**. Maternal Exposure to Polybrominated Diphenyl Ether (PBDE47) Increased Asthma Susceptibility in Adult Offspring. *Annual Meeting for Society of Toxicology* 2018
19. Pulczinski, J.[#], Yeung, B.H.Y.[#], Loube, J., Mitzner, W and **Tang, W.Y.** In utero allergen exposure and gene markers for lung development as modified by maternal folate intake. *Annual Meeting for Society of Toxicology* 2019
20. McCormick, M.[#], Shinde, S., Anguiano, T., **Tang, W.Y**, Ambrosio, F., and Barchowsky, B. Arsenic Alters ECM to Impair Skeletal Muscle Regeneration, *Annual Meeting for Society of Toxicology* 2020
21. Sun, Y.[#], Pulczinski, J.[#], Watfa, M., and **Tang, W.Y**. Epigenetic effects of maternal house dust mite exposure on mice placenta, *Annual Meeting for Society of Toxicology* 2022
22. Sun, Y.[#], Yeung, B.H.Y.[#], Pulczinski, J.[#], Watfa, M., Mitzner, W., and **Tang, W.Y**. Early-life Exposure to Inorganic Arsenic Primes the Offspring to Increased Airway Hyperresponsiveness Through the Modification of Transcriptome, *Annual Meeting of the Allegheny-Erie Society of Toxicology Regional Chapter* 2022

Invited Presentations

1. Epigenetics: How Gene Interacts with the Environment. *Chinese Leadership Workshop in Education and Training, Johns Hopkins Bloomberg School of Public Health, April 2014, Baltimore, MD*
2. Epigenetic Alterations by DNA Methylation of Allergic Airway Hyperresponsiveness. *EHS Retreat Discussion Session, Johns Hopkins Bloomberg School of Public Health, January 2016, Baltimore, MD*
3. Epigenetic Alterations by DNA Methylation in Human Asthma, *Lung Research Conference, Division of Pulmonary and Critical Care Medicine, Johns Hopkins School of Medicine, February 2016, Baltimore, MD*
4. Epigenetic Regulation of Airway Hyperresponsiveness, *Seminar Series, Nanjing University School of Public Health, February 2017 Nanjing, China*
5. Tet1-mediated DNA Hydroxymethylation and Airway Hyperresponsiveness, *Epigenetics Consortium Series, University of Minnesota, April 2017, Minneapolis, MN*
6. Maternal Exposures, Epigenomics and Developmental Changes, *Life Sciences*
7. *Seminar Series, The Chinese University of Hong Kong, Nov 2017 Hong Kong, China*
8. How Gene Interacts with the Environment, *Beltsville Human Nutrition Research Center, USDA, March 2018, Beltsville, MD*
9. Transgenerational Epigenetic Regulation of Asthma, *Nanjing Medical University, Oct 2018 Nanjing, China*

10. Cell metabolism, Epigenome and Asthma, *Research Seminar*, *University of Kentucky, Nov 2018 Lexington, KY*
11. Antioxidants and Epigenetic Regulation of Asthma, *Lung Research Conference*, *Division of Pulmonary and Critical Care Medicine, Johns Hopkins School of Medicine, Nov 2018 Baltimore, MD*
12. Environmental Epigenetics and Asthma, *University of Pittsburgh Graduate School of Public Health, Environmental and Occupational Health, Feb 2019, Pittsburgh, PA*

Media Interview

1. Tang, W.Y. Interviewed with University of Cincinnati Academic Health Center Public Relations. Research suggests pollution-related asthma may start in the womb. *UC Health News*. Date: 02/13/2009.
2. Tang, W.Y. Interviewed with Aaron Lohr. A gene reprogrammed by the hormone estrogen may explain why black men have higher prostate cancer risk than whites. *Endocrinology Society Press Release*. Date: 06/10/2009.
3. Tang, W.Y. Interviewed with John Schieszer. Estrogen may explain the higher PCa risk in blacks. *Renal and Urology News*. Date: 09/18/2009.
4. Tang, W.Y. Interviewed with Virginia Gewin. Genetics researcher reaps career benefits of moving from China to the United States. *Nature Careers News*. *Nature* 510:179. Date: 06/04/2014
5. Tang, W.Y. Interviewed with Carrie Arnold. Transgenerational Epigenetics. *Johns Hopkins SPH Magazine* Date: 09/01/2017

SERVICE

Service to School and University

Years	Committee	Position
2012-2013	Advisory member for Johns Hopkins School of Public Health Retreat Committee (Ad hoc committee)	Appointed
2015-2019	Advisory Committee for the Online Education Master Program in Public Health Biology (MAPHB), Johns Hopkins School of Public Health (Standing committee)	Appointed
2016-2019	Education Programs Committee of Environmental Health and Engineering, Johns Hopkins School of Public Health (Standing committee)	Appointed
2016-2019	Advisory Committee for the new umbrella PhD Program (EHE, BMB and MMI), Johns Hopkins School of Public Health (Standing committee)	Appointed

Years	Committee	Position
2017-2019	PhD Program Co-Director in Toxicology, Physiology & Molecular Mechanisms, Department of Environmental Health and Engineering, JHSPH	Appointed
2021-	Planning, Budget and Policy Committee, University of Pittsburgh Graduate School of Public Health	Appointed

Service to Field of Scholarship
Editorial Boards, Editorships

Date	Position	Organization
2012-2014	Guest editor	Environmental and Molecular Mutagenesis (Special issue of environmental epigenetics)
2020-2021	Guest editor	Frontiers in Endocrinology (Special issue of Endocrine-disrupting and Inflammatory effects of environmental chemicals on animal metabolism)

b. Manuscript and Other Document/Publication Review

Dates	Journal Title
2010-present	Environmental and Molecular Mutagenesis
	Molecular Carcinogenesis
	Environmental Health Perspectives
	British Journal of Cancer
	Epigenetics
	Clinical Epigenetics
	Scientific Reports
	Toxicology and Applied Pharmacology
	The Journal of Allergy and Clinical Immunology
	American Journal of Respiratory Cell and Molecular Biology Environmental Health Frontiers in Physiology

c. Study Sections, Review Panels, and Advisory Boards

Date	Position	Organization and Nature of Activity
2008-present	Reviewer	Hong Kong Research Grants Council
2011	Ad hoc reviewer	United Kingdom Medical Research Council Prostate Cancer Research

Date	Position	Organization and Nature of Activity
2011	Review panel	NIEHS U01 RFA-ES-10-009: Research Consortium for Bisphenol A Toxicity Study
2012	Ad hoc reviewer	United Kingdom Prostate Action Grant
2015	Ad hoc reviewer	NIH Kidney, Nutrition, Obesity and Diabetes (KNOD) Study Section
2016-present	Reviewer	The Health and Medical Research Fund, Food and Health Bureau of Hong Kong
2017	Ad hoc reviewer	NIH ZRG1 IMM-T(90) Special Emphasis Panel
2017-2019	Ad hoc reviewer	NIH Systemic Injury by Environmental Exposure (SIEE) Study Section
2017-2019	Review Panel	Tobacco-Related Disease Research Program (TRDRP), Environmental Toxicology Section, University of California
2020	Mail reviewer	NIH Neurotoxicology and Alcohol (NAL) Study Section
2021	Reviewer	Swiss National Science Foundation (SNSF)
2021-	Review Panel	Tobacco-Related Disease Research Program (TRDRP), Environmental Toxicology Section, University of California

d. Leadership in Scholarly and Professional Organizations and Honorary Societies

Date	Position	Organization
2014	Discussion Panelist Represented as one of 10 US young women scientists and shared experience in performing scientific research with China-counterparts and building professional network	U.S. – China People-to-People Exchange and Young Scientist Voluntary Visitor Program, U.S. Department of State and the Chinese Ministry of Science and Technology
2014-2018	Committee Member for Respiratory Structure and Function Assembly	American Thoracic Society