

## **Xiaozhong Yu, M.D., MPH, Ph.D.**

**Department of Environmental Health Science  
College of Public Health, University of Georgia  
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### **Education**

1994 - 1999 Nagoya University, Nagoya, Japan: Ph.D/Toxicology  
1988 - 1991 Shanghai Medical University (Now Fudan University), Shanghai, China:  
MPH Toxicology  
1983 – 1988 Nanking Medical University, Nanking, China: MD

### **Academic Appointments**

2012- Assistant Professor, Department of Environmental Health Science  
College of Public Health, University of Georgia, Athens, GA  
2006-2012 Director of Lab Research and Public Health Translation, Institute for  
Risk Analysis and Risk Communication, Department of Environmental  
and Occupational Health Sciences, University of Washington, Seattle, WA  
2002-2006 Acting Assistant Professor, Dept. of Environmental and Occupational  
Health Sciences, University of Washington, Seattle, WA  
1999-2002 Research Fellow, National Institute of Industrial Health, Minister of  
Labor, Nagao, Japan  
1994-1999 Research Assistant, Nagoya University Graduate School of Medicine  
1988-1994 Research Assistant/Lecturer, Department of occupational health and  
Toxicology, School of Public Health, Shanghai Medical University

### **Job-Related Honors and Performance Awards**

1. Best Paper Award Finalist, published in Toxicological Science 2008, Society of Toxicology Specialty Section, Baltimore 2009.
2. The Society of Toxicology, Board of Publications, "Honorable Mention" in the 2008 Best Paper Award winner for the publication titled "A System-Based Approach to Interpret Dose-and Time-Dependent Microarray Data: Quantitative Integration of Gene Ontology Analysis for Risk Assessment" in Toxicological Sciences.
3. The outstanding published paper in 2006, Advancing the Science of Risk Assessment, by the Risk Assessment Specialty Section, Society of Toxicology, March 2007, Charlotte, NC.
4. Society of Toxicology, Colgate-Palmolive Grant for Alternative Research Award, 2006

## **PEER-REVIEWED PUBLICATIONS**

49. Louise Parks Saldutti, Bruce Beyer, William Breslin, Terry R. Brown, Robert E. Chapin, Sarah Champion, Brian Enright, Elaine Faustman, Paul Foster, William Kelce, James H. Kim, Elizabeth G. Lobo, Aldert H. Piersma, David Seyler, Katie Turner, Hanry Yu, Xiaozhong Yu, Jennifer C. Sasaki, In vitro Testicular Toxicity Models: Opportunities for Advancement via Biomedical Engineering Techniques, ALTEX accepted
48. Wegner S, Hong S, Yu X, Faustman EM. Preparation of Rodent Testis Co-Cultures. Current Protocols in Toxicology 16.10.1-16.10.7, February 2013. DOI: 10.1002/0471140856.tx1610s55
47. **Yu X.**, H Kim, Q Le, S, Hong, and E.M. Faustman, The role of Nrf2 in domoic acid induced effects on early mouse neuronal precursor cells. Birth Defects Research Part B- Developmental and Reproductive Toxicology 2011 (in submission)
46. **Yu, X.**, Ponce, R., and Faustman, E. M. (2011). Metals Induced Disruption of Ubiquitin Proteasome System, Activation of Stress Signaling and Apoptosis. In *Cellular Effects of Heavy Metals* (G. Bánfalvi, Ed.), pp. 287-307. Springer.
45. **Yu X.**, J.F. Robinson, J.S. Sidhu, S. Hong, and E.M. Faustman, Cadmium induced p53 dependent activation of stress signaling, accumulation of ubiquitinated proteins and apoptosis in mouse embryonic fibroblast cells Toxicological Sciences, 2011 (in press).
44. Robinson, J.F., **X. Yu**, E.G. Moreira, S. Hong, and E.M. Faustman, *Arsenic- and cadmium-induced toxicogenomic response in mouse embryos undergoing neurulation*. Toxicol Appl Pharmacol. 10.1016/j.taap.2010.09.018.
43. **Yu X.**, J.F. Robinson, J.S. Sidhu, S. Hong, and E.M. Faustman, *A System-Based Comparison of Gene Expression Reveals Alterations in Oxidative Stress, Disruption of Ubiquitin--Proteasome System and Altered Cell Cycle Regulation after Exposure to Cadmium and Methylmercury in Mouse Embryonic Fibroblast*. Toxicological Sciences, 2010. **114**(2): p. 356-377.
42. Robinson, J.F., **X. Yu**, S. Hong, C.Y. Zhou, N. Kim, D. DeMasi, and E.M. Faustman, *Embryonic toxicokinetic and dynamic differences underlying strain sensitivity to cadmium during neurulation*. Reproductive Toxicology, 2010. **29**(3): p. 279-285.
41. Robinson, J.F., J.A. Port, **X. Yu**, and E.M. Faustman, *Integrating Genetic and Toxicogenomic Information for Determining Underlying Susceptibility to Developmental Disorders*. Birth Defects Research Part a-Clinical and Molecular Teratology, 2010. **88**(10): p. 920-930.
40. Robinson, J.F., Z. Guerrette, **X. Yu**, S. Hong, and E.M. Faustman, *A Systems-Based Approach to Investigate Dose- and Time-Dependent Methylmercury-Induced Gene Expression Response in C57BL/6 Mouse Embryos Undergoing Neurulation*. Birth Defects Research Part B- Developmental and Reproductive Toxicology, 2010. **89**(3): p. 188-200.
39. Robinson, J.F., W.C. Griffith, **X. Yu**, S. Hong, E. Kim, and E.M. Faustman, *Methylmercury induced toxicogenomic response in C57 and SWV mouse embryos undergoing neural tube closure*. Reproductive Toxicology, 2010. **30**(2): p. 284-291.
38. Moreira, E.G., **X. Yu**, J.F. Robinson, W. Griffith, S.W. Hong, R.P. Beyer, T.K. Bammler, and E.M. Faustman, *Toxicogenomic profiling in maternal and fetal rodent brains following gestational exposure to chlorpyrifos*. Toxicology and Applied Pharmacology, 2010. **245**(3): p. 310-325.

37. **Yu X.**, S. Hong, E.G. Moreira, and E.M. Faustman, *Improving in vitro Sertoli cell/gonocyte co-culture model for assessing male reproductive toxicity: Lessons learned from comparisons of cytotoxicity versus genomic responses to phthalates*. Toxicology and Applied Pharmacology, 2009. **239**(3): p. 325-336.
36. Robinson, J.F., **X. Yu**, S.W. Hong, W.C. Griffith, R. Beyer, E. Kim, and E.M. Faustman, *Cadmium-Induced Differential Toxicogenomic Response in Resistant and Sensitive Mouse Strains Undergoing Neurulation*. Toxicological Sciences, 2009. **107**(1): p. 206-219.
35. **Yu X.**, J.F. Robinson, E. Gribble, S.W. Hong, J.S. Sidhu, and E.M. Faustman, *Gene expression profiling analysis reveals arsenic-induced cell cycle arrest and apoptosis in p53-proficient and p53-deficient cells through differential gene pathways*. Toxicology and Applied Pharmacology, 2008. **233**(3): p. 389-403.
34. **Yu X.**, S.W. Hong, and E.M. Faustman, *Cadmium-induced activation of stress signaling pathways, disruption of ubiquitin-dependent protein degradation and apoptosis in primary rat Sertoli cell-gonocyte cocultures*. Toxicological Sciences, 2008. **104**(2): p. 385-396.
33. **Yu X.**, W.C. Griffith, K. Hanspers, J.F. Dillman, H. Ong, M.A. Vredevogd, and E.M. Faustman, *A system-based approach to interpret dose- and time-dependent microarray data: Quantitative integration of gene ontology analysis for risk assessment*. Toxicological Sciences, 2006. **92**(2): p. 560-577.
32. **Yu X.**, W.C. Griffith, K. Hanspers, H. Ong, and E.M. Faustman, *A system based approach to identify potential signalling pathways during gonad development from microarray data*. Birth Defects Research Part a-Clinical and Molecular Teratology, 2006. **76**(5): p. 339-339.
31. Sidhu, J.S., R.A. Ponce, M.A. Vredevogd, **X. Yu**, E. Gribble, S.W. Hong, E. Schneider, and E.M. Faustman, *Cell cycle inhibition by sodium arsenite in primary embryonic rat midbrain neuroepithelial cells*. Toxicological Sciences, 2006. **89**(2): p. 475-484.
30. Gribble, E.J., S. Hong, **X. Yu**, and E.M. Faustman, *Association of cell cycle regulatory proteins with cell cycle exit and differentiation in mouse embryonic midbrain neuronal precursor cells*. Neurotoxicology, 2006. **27**(5): p. 929-930.
29. **Yu X.**, J.S. Sidhu, S. Hong, and E.M. Faustman, *Essential role of extracellular matrix (ECM) overlay in establishing the functional integrity of primary neonatal rat sertoli cell/gonocyte co-cultures: An improved In vitro model for assessment of male reproductive toxicity*. Toxicological Sciences, 2005. **84**(2): p. 378-393.
28. Ichihara, G., W.H. Li, X.C. Ding, S.M. Peng, **X. Yu**, E. Shibata, T. Yamada, H.L. Wang, S. Itohara, S. Kanno, K. Sakai, H. Ito, K. Kanefusa, and Y. Takeuchi, *A survey on exposure level, health status, and biomarkers in workers exposed to 1-bromopropane*. American Journal of Industrial Medicine, 2004. **45**(1): p. 63-75.
27. Yamada, T., G. Ichihara, H.L. Wang, **X. Yu**, K. Maeda, H. Tsukamura, M. Kamijima, T. Nakajima, and Y. Takeuchi, *Exposure to 1-bromopropane causes ovarian dysfunction in rats*. Toxicological Sciences, 2003. **71**(1): p. 96-103.
26. Wang, H.L., G. Ichihara, H. Ito, K. Kato, J. Kitoh, T. Yamada, **X. Yu**, S. Tsuboi, Y. Moriyama, and Y. Takeuchi, *Dose-dependent biochemical changes in rat central nervous system after 12-week exposure to 1-bromopropane*. Neurotoxicology, 2003. **24**(2): p. 199-206.
25. Wang, H.L., G. Ichihara, H. Ito, K. Kato, J. Kitoh, T. Yamada, **X. Yu**, S. Tsuboi, Y. Moriyama, R. Sakatani, E. Shibata, M. Kamijima, S. Itohara, and Y. Takeuchi, *Biochemical changes in the*

*central nervous system of rats exposed to 1-bromopropane for seven days*. Toxicological Sciences, 2002. **67**(1): p. 114-120.

24. Hisanaga, N., H. Jonai, **X. Yu**, Y. Ogawa, I. Mori, M. Kamijima, G. Ichihara, E. Shibata, and Y. Takeuchi, [*Stevens-Johnson syndrome accompanied by acute hepatitis in workers exposed to trichloroethylene or tetrachloroethylene*]. Sangyo Eiseigaku Zasshi, 2002. **44**(2): p. 33-49.
23. **Yu X.**, H. Kubota, R.S. Wang, J. Saegusa, Y. Ogawa, G. Ichihara, Y. Takeuchi, and N. Hisanaga, *Involvement of Bcl-2 family genes and Fas signaling system in primary and secondary male germ cell apoptosis induced by 2-bromopropane in rat*. Toxicology and Applied Pharmacology, 2001. **174**(1): p. 35-48.
22. **Yu X.**, G. Ichihara, J. Kitoh, Z.L. Xie, E. Shibata, M. Kamijima, and Y. Takeuchi, *Neurotoxicity of 2-bromopropane and 1-bromopropane, alternative solvents for chlorofluorocarbons*. Environmental Research, 2001. **85**(1): p. 48-52.
21. Yoshida, R., Y. Ogawa, I. Shioji, **X. Yu**, E. Shibata, I. Mori, H. Kubota, A. Kishida, and N. Hisanaga, *Urinary 8-oxo-7, 8-dihydro-2'-deoxyguanosine and biopyrrins levels among construction workers with asbestos exposure history*. Industrial Health, 2001. **39**(2): p. 186-188.
20. Ichihara, G., **X. Yu**, J. Kitoh, N. Asaeda, T. Kumazawa, H. Iwai, E. Shibata, T. Yamada, H.L. Wang, Z.L. Xie, K. Maeda, H. Tsukamura, and Y. Takeuchi, *Reproductive toxicity of 1-bromopropane, a newly introduced alternative to ozone layer depleting solvents, in male rats*. Toxicological Sciences, 2000. **54**(2): p. 416-423.
19. Ichihara, G., J. Kitoh, **X. Yu**, N. Asaeda, H. Iwai, T. Kumazawa, E. Shibata, T. Yamada, H.L. Wang, Z.L. Xie, and Y. Takeuchi, *1-bromopropane, an alternative to ozone layer depleting solvents, is dose-dependently neurotoxic to rats in long-term inhalation exposure*. Toxicological Sciences, 2000. **55**(1): p. 116-123.
18. Yin L, Jin XP, **Yu X.**, Lin HF. (1999) "Flow Cytometric Analysis of the Toxicity of Nitrofen in Cultured Keratinocytes." Biomed Environ Sci 12(2):144-9.
17. **Yu X.**, M. Kamijima, G. Ichihara, W.X. Li, J. Kitoh, Z.L. Xie, E. Shibata, N. Hisanaga, and Y. Takeuchi, *2-bromopropane causes ovarian dysfunction by damaging primordial follicles and their oocytes in female rats*. Toxicology and Applied Pharmacology, 1999. **159**(3): p. 185-193.
16. **Yu X.**, G. Ichihara, J. Kitoh, Z.L. Xie, E. Shibata, M. Kamijima, N. Asaeda, N. Hisanaga, and Y. Takeuchi, *Effect of inhalation exposure to 2-bromopropane on the nervous system in rats*. Toxicology, 1999. **135**(2-3): p. 87-93.
15. Ichihara, G., X.C. Ding, **X. Yu**, X.D. Wu, M. Kamijima, S.M. Peng, X.Z. Jiang, and Y. Takeuchi, *Occupational health survey on workers exposed to 2-bromopropane at low concentrations*. American Journal of Industrial Medicine, 1999. **35**(5): p. 523-531.
14. **Yu X.**, G. Johanson, G. Ichihara, E. Shibata, M. Kamijima, Y. Ono, and Y. Takeuchi, *Physiologically based pharmacokinetic modeling of metabolic interactions between n-hexane and toluene in humans*. Journal of Occupational Health, 1998. **40**(4): p. 293-301.
13. **Yu X.**, G. Ichihara, J. Kitoh, Z.L. Xie, E. Shibata, M. Kamijima, N. Asaeda, and Y. Takeuchi, *Preliminary report on the neurotoxicity of 1-bromopropane, an alternative solvent for chlorofluorocarbons*. Journal of Occupational Health, 1998. **40**(3): p. 234-235.
12. Ichihara, G., I. Saito, M. Kamijima, **X. Yu**, E. Shibata, M. Toida, and Y. Takeuchi, *Urinary 2,5-hexanedione increases with potentiation of neurotoxicity in chronic coexposure to n-hexane and methyl ethyl ketone*. International Archives of Occupational and Environmental Health, 1998.

71(2): p. 100-104.

11. Nakajima, T., S. Shimodaira, G. Ichihara, N. Asaeda, T. Kumazawa, H. Iwai, I. Ichikawa, M. Kamijima, **X. Yu**, Z.L. Xie, H. Kondo, and Y. Takeuchi, *2-bromopropane-induced hypoplasia of bone marrow in male rats*. Journal of Occupational Health, 1997. **39**(3): p. 228-233.
10. Nakajima, T., S. Shimodaira, G. Ichihara, N. Asaeda, T. Kumazawa, H. Iwai, I. Ichikawa, M. Kamijima, **X. Yu**, Z.L. Xie, H. Kondo, and Y. Takeuchi, *Histopathologic findings of bone marrow induced by 2-bromopropane in male rats*. Journal of Occupational Health, 1997. **39**(2): p. 81-82.
9. Kamijima, M., G. Ichihara, **X. Yu**, Z.L. Xie, J. Kitoh, H. Tsukamura, K. Maeda, T. Nakajima, N. Asaeda, N. Hisanaga, and Y. Takeuchi, *Disruption in ovarian cyclicity due to 2-bromopropane in the rat*. Journal of Occupational Health, 1997. **39**(1): p. 3-4.
8. Kamijima, M., G. Ichihara, J. Kitoh, H. Tsukamura, K. Maeda, **X. Yu**, Z.L. Xie, T. Nakajima, N. Asaeda, N. Hisanaga, and Y. Takeuchi, *Ovarian toxicity of 2-bromopropane in the non-pregnant female rat*. Journal of Occupational Health, 1997. **39**(2): p. 144-149.
7. Ichihara, G., N. Asaeda, T. Kumazawa, Y. Tagawa, M. Kamijima, **X. Yu**, H. Kondo, T. Nakajima, J. Kitoh, I.J. Yu, Y.H. Moon, N. Hisanaga, and Y. Takeuchi, *Testicular and hematopoietic toxicity of 2-bromopropane, a substitute for ozone layer-depleting chlorofluorocarbons*. Journal of Occupational Health, 1997. **39**(1): p. 57-63.
6. **Yu X**, Jin XP, Yin L, Shen GZ, Lin HF, Wang YL. (1994). The Influence of in vitro methods and receptor fluids on the percutaneous absorption and validation of a new in vitro model. Biomedical Environmental Science 7:132-36.
5. **Yu X**, Jin XP, Lin WA, Cai LP. (1993). Biological monitoring of workers exposed to nitrofen and experimental study on its skin permeability. Chinese Journal of Preventive Medicine, 27(4):288-91.
4. **Yu X**, Jin XP. (1993). Percutaneous absorption of nitrofen in vitro: the influence of skin source. Acta Academiae Medicinae Shanghai 20(5):392-5.
3. Li YM, **Yu X**, Jin XP. (1993). Flow-through diffusion cell as an in vitro model to predict percutaneous absorption of chemicals in vitro. Chinese Journal of Public Health, 12(4):224-246.
2. **Yu X**, Jin XP, Zhang NB, Kuan JW. (1992). Percutaneous absorption of 3H-Huangbo extracts and 3H-Berberine. Journal of Isotopes, 5(1):36-42.
1. **Yu X**, Jin XP, Lin FQ. (1992). The GC/ECD determination of nitrofen in urine. Chemical Labor Protection, 13(2):53-55.

### **Abstract and Presentation**

62. Susanna Wegner, Sungwoo Hong, Xiaozhong Yu, Elaine M. Faustman, Inhibition of cyclooxygenase 2 reduces phthalate toxicity in a 3-dimensional in vitro rat testes co-culture model: evidence for a steroid-independent mechanism of action. Annual meeting of Toxicology, San Francisco 2012
61. Sean Harris, Xiaozhong Yu and Elaine M Faustman, Comparison of toxicogenomic

responses to phthalate ester exposure in an in vitro rat testes co-culture (TCS) model and responses observed in vivo. Annual meeting of Toxicology, San Francisco, 2012

60. Zachariah N. Guerrette, Estefania G. Moreira, William C. Griffith, Dana Boyd Barr, Gloria D. Coronado, Beti Thompson, Eric M. Vigoren, Xiaozhong Yu, Rebecca J. Richter, Clem E. Furlong, Elaine M. Faustman, PON1 Status is Not Associated with Blood Cholinesterase Activities in a Farmworker Population Exposed to Azinphos Methyl . Annual meeting of Toxicology, San Francisco 2012
59. Robinson, JF, **Yu X**, Hong, S, Griffith, WC and Faustman, EM Poster: (presented by Faustman) Systems-Biology Approach for Characterizing and Assessing the Interaction of Developmental Disease Candidate Genes and Environmental Exposure for Risk Assessment. Teratology Society 50th Annual Meeting. 2010 June: Louisville, KY.
58. **Yu X**, Griffith, WC, and Faustman, EM. Poster: Integrative Risk Assessment Methods for Engineered Nanomaterials. U19 NIEHS Centers for Nanotechnology Health Implications Research (NCNHIR) Consortium. 2010 Nov: Research Triangle Park, NC.
57. Robinson JF, **Yu X**, Hong S, Faustman EM. Comparing gene expression alterations in mouse embryos undergoing neurulation; dose and time dependent effects of cadmium and arsenic exposures. Society of Toxicology Annual Meeting. Baltimore, MD. The Toxicologist March 2009; 108:1368.
56. Guerrette Z, **Yu X**, Kim H, Hong S, Faustman EM. Optimization of a protocol to isolate genomic material from buccal cells. Society of Toxicology Annual Meeting. Baltimore, MD. The Toxicologist March 2009; 108:1630.
55. **Yu X**, Hong S, Ng RT, Kim H, Faustman EM. Systems biology defined crosstalk between P53 and nfkb signaling and modulation by arsenic. Society of Toxicology Annual Meeting. Baltimore, MD. The Toxicologist March 2009; 108:1984.
54. Moreira EG, Robinson JF, Hong S, Griffith WC, **Yu X**, Faustman EM. Toxicogenomic profiling in the fetal brain after gestational exposure to chlorpyrifos. Teratology Annual Meeting. Rio Grande, Puerto Rico, June 2009. Birth Defects Research (Part A). 85(5): 445.
53. Robinson JF, **Yu X**, Guerrette Z, Hong S, Faustman EM. A systems-based approach to investigate dose and time dependent methylmercury-induced gene expression response in C57 mouse embryos undergoing neurulation. Teratology Annual Meeting. Rio Grande, Puerto Rico, June 2009. Birth Defects Research (Part A). 85(5): 445.
52. Guerrette Z, **Yu X**, Hong S, Kim E, Faustman EM. Arsenic induces different cell signaling pathways leading to apoptosis and cell cycle arrest in p53 / and p53-/- cells. Society of Toxicology Annual Meeting. Seattle, WA. The Toxicologist March 2008; 102:353.
51. **Yu X**, Hong S, Faustman EM. Germ-line stem cells-gonocytes as an in vitro model for male developmental toxicity: comparison from cytotoxicity to genomic responses to phthalates. Society of Toxicology Annual Meeting. Seattle, WA. The Toxicologist March 2008; 102:884.
50. Vredevoogd MA, **Yu X**, Hong S, Faustman EM. Critical Molecular Pathways of Neurogenesis in Chlorpyrifos response. Society of Toxicology Annual Meeting. Seattle, WA. The Toxicologist March 2008; 102:1320.
49. Le QH, Hong S, **Yu X**, Faustman EM. The role of nrf2 in domoic acid-induced effects on early neurodevelopment. Society of Toxicology Annual Meeting. Seattle, WA. The Toxicologist March 2008; 102:1695.

48. Robinson JF, **Yu X**, Hong S, Beyer R, Faustman EM. Comparative gene expression analysis in c57 mouse embryos undergoing neurulation exposed to cadmium and methylmercury. Society of Toxicology Annual Meeting. Seattle, WA. The Toxicologist March 2008; 102:1853.
47. Faustman EM: Pesticide exposure in children: Evidence for a take home pathway. Birth Defects Research Part A- Clinical and Molecular Teratology 2008;82:319.
46. Faustman EM, **Yu X**, Griffith WC, Robinson JF. Useful Lessons for Toxicogenomics using Systems Based Approaches for Dose and Temporal Response Modeling. Teratology Annual Meeting. June 2008. Hyatt Regency Monterey, Monterey, CA. Birth Defects Research (Part A). 82(5).
45. Faustman EM, **Yu X**, Griffith WC, Robinson JF: Useful lessons for toxicogenomics using systems based approaches for dose and temporal response modeling. Society for Risk Analysis Risk Analysis: The Science and the Art 2008;2008 Annual Meeting:68.
44. Robinson JF, **Yu X**, Hong S, Faustman EM: Examination of dose and time dependent arsenic and cadmium-induced gene expression response in c57bl/6 mouse embryos undergoing neurulation. Birth Defects Research Part a-Clinical and Molecular Teratology 2008;82:287-287.
43. Faustman EM, **Yu X**, Griffith WC. The future of genomics in dose response modeling: useful lessons from systems based approaches. Society of Toxicology Annual Meeting. Charlotte, NC. The Toxicologist March 2007; 96:22.
42. Robinson JF, **Yu X**, Hong S, Kim E, Griffith WC, Faustman EM. Examination of metal induced toxicogenomic response during neurulation in resistant and sensitive mouse strains. Society of Toxicology Annual Meeting. Charlotte, NC. The Toxicologist, March 2007; 96:436.
41. **Yu X**, Hong S, Kim E, Faustman EM. Characterization of male reproductive toxicants in an in vitro 3-d sertoli cell/gonocyte co-cultures. Society of Toxicology Annual Meeting. Charlotte, NC. The Toxicologist, March 2007; 96:1160.
40. Vredevoogd MA, **Yu X**, Griffith WC, Faustman EM. Quantification of genomic data: value-added assessment and applicability to toxicologically significant endpoints. Society of Toxicology Annual Meeting. Charlotte, NC. The Toxicologist, March 2007; 96:1209.
39. Robinson JF, **Yu X**, Griffith WC, Hong S, Beyer RP, Faustman EM. Metal-induced toxicogenomics response in resistant and sensitive mouse strains undergoing neurulation. Teratology Annual Meeting. Omni William Penn, Pittsburgh, PA. June 23 to 28, 2007. Birth Defects Research (Part A) 79(5):376 (May 2007).
38. Faustman EM, **Yu X**, Hong S. Improving in vitro models for assessing male reproductive toxicity: incorporating genomic considerations. International Congress of Toxicology. Montreal, Canada. July 15-19, 2007.
37. Faustman EM, **Yu X**, Griffith WC. Toxicogenomics: Realizing the promise. Society for Risk Analysis Annual Meeting. San Antonio, TX. December 9-12, 2007.
36. Faustman EM, Griffith WC Toxicodynamic Considerations in PBPK Models. Society for Risk Analysis Annual Meeting. San Antonio, TX. December 9-12, 2007.
35. Robinson JF, **Yu X**, Gribble EJ, Hong S, Kim E, Sidhu JS and Faustman EM. Examination of arsenic-induced alterations in cell cycle progression and global gene Expression in p53 transgenic mouse embryonic fibroblasts. Society of Toxicology Annual Meeting, San Diego, CA. The Toxicologist, March 2006; 90:445.
34. **Yu X**, Griffith WC, Hanspers K, Robinson JF, Faustman EM. Functional interpretation of dose

and Time-dependent microarray data: Quantitative integration of go ontology Analysis for toxicology and risk assessment. Society of Toxicology Annual Meeting, San Diego, CA. The Toxicologist, March 2006; 90:898.

33. Kim E, Robinson JF, **Yu X**, Hong S, Faustman EM. Characterization of repeated maternal CP exposure induced acetylcholinesterase inhibition in maternal and fetal brain of C57BL/6 mice. Teratology Society Annual Meeting. Loews Ventana Resort, Tucson AZ. June 24-29, 2006. Birth Defects Research (Part A). 76(5):394 (May 2006).
32. Robinson JF, Hong S, Griffith WC, **Yu X**, Sullivan R, Kim N, Zarbl H, Faustman EM. Differential Impact of Cadmium on Gene Expression during Neuralation in the C57BL/6 and SWV. Teratology Society Annual Meeting. Loews Ventana Resort, Tucson AZ. June 24-29, 2006. Birth Defects Research (Part A). 76(5):392 (May 2006).
31. **Yu X**, Griffith WC, Hanspers K, Ong H, Faustman EM. A system based approach to identify potential signalling pathways during gonad development from microarray data. Teratology Society Annual Meeting. Loews Ventana Resort, Tucson AZ. June 24-29, 2006. Birth Defects Research (Part A). 76(5):339 (May 2006).
30. Griffith WC, **Yu X**, Nanspers K, Dillman III JF, Ong H, Vredevoogd MA, Faustman EM. Systems biology evaluation of toxicogenomic microarray data using GO-Quant to analyze how toxicants alter gene pathways and functional gene categories. Society for Risk Analysis Annual Meeting. Baltimore, MD. December 3-6, 2006.
- 29.. Gribble EJ, Hong S, **Yu X**, Faustman EM. Association of cell cycle regulatory proteins with cell cycle exit and differentiation in mouse embryonic midbrain neuronal precursor cells. Twenty-second International Neurotoxicology Conference. Sheraton Imperial Hotel and Conference Center, Research Triangle Park, NC. September 11-14, 2005.
28. Robinson JF, **Yu X**, Sidhu J, Hong S, Kim E, Faustman EM. Examination of metal-induced cell cycle alterations and apoptosis in C57BL/6 and SWV mouse embryonic fibroblasts. Society of Toxicology Annual Meeting. New Orleans, LA. The Toxicologist March 2005; 84:462
27. Faustman EM, **Yu X**, Sidhu J, Robinson JF. Toxicant affects on ubiquitin-proteasome systems: lessons from cross-compound and cross-system assessments. Society of Toxicology Annual Meeting. New Orleans, LA. The Toxicologist March 2005; 84:337.
26. **Yu X**, Sidhu J, Robinson JF, Hong S, Faustman EM. Integrative analysis of genome-wide gene expression and pathway mapping in mouse embryonic fibroblast (MEF) exposed to cadmium, arsenic, and methylmercury: induction of oxidative stress, disruption of ubiquitin-proteasome system and cell cycle regulation. Society of Toxicology Annual Meeting, New Orleans, LA. The Toxicologist March 2005; 84:237.
25. Faustman EM, **Yu X**, Sidhu JS, Hong S, Kim E, Robinson JF, Griffith WC. Integration of toxicogenomic and knowledge-based pathway mapping of elucidating shared molecular mechanism of metal toxicity. 10th International Congress of Toxicology. Tampere, Finland, July 11-15, 2004. Toxicology and Applied Pharmacology. June 2004; 197(3) 524.
24. Sidhu JS, Hong S, **Yu X**, Kim E, Erickson A, Robinson JF, Kim S, Vredevoogd M, Faustman EM. Defining P53-dependent and independent mechanisms of cadmium – induced cytotoxicity, stress signaling, apoptosis and ubiquitin proteasome pathway processing. Society of Toxicology Annual Meeting, Baltimore, MD. The Toxicologist, March 2004; 78:1155.
23. **Yu X**, Sidhu JS, Hong S, Faustman EM. Cadmium-induced apoptosis, activation of MAPK



signaling pathways and accumulation of ubiquitinated–protein–conjugates in primary rat neonatal sertoli–gonocyte co–cultures. Society of Toxicology Annual Meeting, Baltimore, MD. The Toxicologist, March 2004; 78:1154.

22. **Yu X**, Faustman EM, Hong S, Sidhu JS. Effects of methylmercury and cadmium on stress signalling and ubiquitination pathways in a primary sertoli cell-gonocyte co-culture system. Society of Toxicology Annual Meeting, March 2003, Salt Lake City, UT. The Toxicologist, March 2003; 72:1331.
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