



## Center Publications (Updated April 2009)

Kirchner SC and Faustman EM. Identifying mechanisms of developmental toxicity: Application of tools from molecular biology. In: *Molecular Biology and Toxic Response*. Puga A and Wallace KB, ed. Taylor and Francis Publishers: Washington, DC, 1998, 411-437.

Mirkes PE and Little SA. Teratogen-induced cell death in postimplantation mouse embryos: differential tissue sensitivity and hallmarks of apoptosis. *Cell Death Differ*. 1998; 5(7): 592-600. (PMCID10200514)

Andersen ME, Conolly RB, Faustman EM, Kavlock RJ, Portier CJ, Sheehan DM, Wier PJ and Ziese L. Quantitative mechanistically based dose-response modeling with endocrine-active compounds. *Environ Health Perspect*. 1999; 107 Suppl 4: 631-8. (PMCID10421774)

Costa LG, Li WF, Richter RJ, Shih DM, Lulis A and Furlong CE. The role of paraoxonase (PON1) in the detoxication of organophosphates and its human polymorphism. *Chem Biol Interact*. 1999; 119-120: 429-38. (PMCID10421480)

Faustman EM, Lewandowski TA, Ponce RA and Bartell SM. Biologically based dose-response models for developmental toxicants: lessons from methylmercury. *Inhal Toxicol*. 1999; 11(6-7): 559-72. (PMCID11202998)

Fenske R. Organophosphates and the Risk Cup. *Agrichemical and Environmental News*. 1999: <http://www.aenews.wsu.edu/Nov99AENews/NovAENews99.pdf>.

Garlock TJ, Shirai JH and Kissel JC. Adult responses to a survey of soil contact-related behaviors. *J Expo Anal Environ Epidemiol*. 1999; 9(2): 134-42. (PMCID10321352)

Hetman M, Kanning KC, Smith-Cavanaugh JE and Xia Z. Neuroprotection by brain-derived neurotrophic factor is mediated by extracellular-signal-regulated kinase and phosphatidylinositol-3 kinase. *J Bio Chem*. 1999; (274): 22569-22580. <http://www.jbc.org/cgi/content/full/274/32/22569?maxtoshow=&HITS=10&hits=10&RESULTFORMAT=&author1=hetman&fulltext=Neuroprotection&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&firstpage=22569&resourcetype=HWCIT>.

Lu C and Fenske RA. Dermal transfer of chlorpyrifos residues from residential surfaces: comparison of hand press, hand drag, wipe, and polyurethane foam roller measurements after broadcast and aerosol pesticide applications. *Environ Health Perspect*. 1999; 107(6): 463-7. (PMCID10339446)

Mirkes PE, Cornel LM, Wilson KL and Dilmann WH. Heat shock protein 70 (Hsp70) protects postimplantation murine embryos from the embryo-lethal effects of hyperthermia. *Dev Dyn*. 1999; 214(2): 159-70. (PMCID10030595)

Moate TF, Lu C, Fenske RA, Hahne RM and Kalman DA. Improved cleanup and determination of dialkyl phosphates in the urine of children exposed to organophosphorus insecticides. *J Anal Toxicol*. 1999; 23(4): 230-6. (PMCID10445484)

Ou YC, Thompson SA, Ponce RA, Schroeder J, Kavanagh TJ and Faustman EM. Induction of the cell cycle regulatory gene p21 (Waf1, Cip1) following methylmercury exposure in vitro and in vivo. *Toxicol Appl Pharmacol*. 1999; 157(3): 203-12. (PMCID10373404)

Ou YC, White CC, Krejsa CM, Ponce RA, Kavanagh TJ and Faustman EM. The role of intracellular glutathione in methylmercury-induced toxicity in embryonic neuronal cells. *Neurotoxicology*. 1999; 20(5): 793-804. (PMCID10591515)

Richter RJ and Furlong CE. Determination of paraoxonase (PON1) status requires more than genotyping. *Pharmacogenetics*. 1999; 9(6): 745-53. (PMCID10634137)

Yue TL, Ni J, Romanic AM, Gu JL, Keller P, Wang C, Kumar S, Yu GL, Hart TK, Wang X, Xia Z, DeWolf WE,

Jr. and Feuerstein GZ. TL1, a novel tumor necrosis factor-like cytokine, induces apoptosis in endothelial cells. Involvement of activation of stress protein kinases (stress-activated protein kinase and p38 mitogen-activated protein kinase) and caspase-3-like protease. *J Biol Chem*. 1999: 274(3): 1479-1486. (PMCID9880523)

Bartell SM, Ponce RA, Sanga RN and Faustman EM. Human variability in mercury toxicokinetics and steady state biomarker ratios. *Environ Res*. 2000: 84(2): 127-32. (PMCID11068925)

Bartell SM, Ponce RA, Takaro TK, Zerbe RO, Omenn GS and Faustman EM. Risk estimation and value-of-information analysis for three proposed genetic screening programs for chronic beryllium disease prevention. *Risk Anal*. 2000: 20(1): 87-99. (PMCID10795342)

Brophy VH, Jarvik GP, Richter RJ, Rozek LS, Schellenberg GD and Furlong CE. Analysis of paraoxonase (PON1) L55M status requires both genotype and phenotype. *Pharmacogenetics*. 2000: 10(5): 453-60. (PMCID10898114)

Burbacher TM and Grant KS. Methods for studying nonhuman primates in neurobehavioral toxicology and teratology. *Neurotoxicol Teratol*. 2000: 22(4): 475-86. (PMCID10974586)

Costa LG. The emerging field of ecogenetics. *Neurotoxicology*. 2000: 21(1-2): 85-9. (PMCID10794388)

Faustman EM, Silbernagel SM, Fenske RA, Burbacher TM and Ponce RA. Mechanisms underlying Children's susceptibility to environmental toxicants. *Environ Health Perspect*. 2000: 108 Suppl 1: 13-21. (PMCID10698720 )

Fenske R. Pesticide Exposure and Children. Part 1: Why Focus on Kids? *Agrichemical and Environmental News*. 2000: <http://www.cdc.gov/nasd/docs/d001801-d001900/d001832/d001832.pdf>.

Fenske R. Pesticide Exposure and Children. Part 2: Children in Agricultural Communities. *Agrichemical and Environmental News*. 2000: <http://www.cdc.gov/nasd/docs/d001801-d001900/d001832/d001832.pdf>.

Fenske RA, Kissel JC, Lu C, Kalman DA, Simcox NJ, Allen EH and Keifer MC. Biologically based pesticide dose estimates for children in an agricultural community. *Environ Health Perspect*. 2000: 108(6): 515-20. (PMCID10856024)

Fenske RA, Lu C, Simcox NJ, Loewenherz C, Touchstone J, Moate TF, Allen EH and Kissel JC. Strategies for assessing children's organophosphorus pesticide exposures in agricultural communities. *J Expo Anal Environ Epidemiol*. 2000: 10(6 Pt 2): 662-71. (PMCID11138658)

Furlong CE. PON1 status and neurologic symptom complexes in Gulf War veterans. *Genome Res*. 2000: 10(2): 153-5. (PMCID10673273)

Furlong CE, Li WF, Brophy VH, Jarvik GP, Richter RJ, Shih DM, Lulis AJ and Costa LG. The PON1 gene and detoxication. *Neurotoxicology*. 2000: 21(4): 581-7. (PMCID11022865)

Furlong CE, Li WF, Richter RJ, Shih DM, Lulis AJ, Alleva E and Costa LG. Genetic and temporal determinants of pesticide sensitivity: role of paraoxonase (PON1). *Neurotoxicology*. 2000: 21(1-2): 91-100. (PMCID10794389)

Ghatan S, Lerner S, Kinoshita Y, Hetman M, Patel L, Xia Z, Youle RJ and Morrison RS. p38 MAP kinase mediates bax translocation in nitric oxide-induced apoptosis in neurons. *J Cell Biol*. 2000: 150(2): 335-47. (PMCID10908576)

Goldstein BD, Erdal S, Burger J, Faustman EM, Friedlander BR, Greenberg M, Leschine TM, Powers CW, Waishwell L and Williams B. Stakeholder participation: Experience from the CRESP program. *Environmental Epidemiology and Toxicology*. 2000: 2: 103-111.

Hetman M, Cavanaugh JE, Kimelman D and Xia Z. Role of glycogen synthase kinase-3beta in neuronal apoptosis induced by trophic withdrawal. *J Neurosci*. 2000: 20(7): 2567-2574. (PMCID10729337 )

Jarvik GP, Rozek LS, Brophy VH, Hatsukami TS, Richter RJ, Schellenberg GD and Furlong CE. Paraoxonase (PON1) phenotype is a better predictor of vascular disease than is PON1(192) or PON1(55) genotype.

*Arterioscler Thromb Vasc Biol.* 2000; 20(11): 2441-7.

<http://atvb.ahajournals.org/cgi/content/full/20/11/2441?maxtoshow=&HITS=10&hits=10&RESULTFORMAT=1&author1=jarvik&andorexacttitle=and&andorexacttitleabs=and&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&volume=20&firstpage=2441&resourcetype=HWCIT>.

Lewandowski TA, Ponce RA, Whittaker SG and Faustman EM. *In vitro* models for evaluating developmental toxicity. In: *In Vitro Toxicology*. Gad S, ed. Raven Press, Ltd.: New York, 2000.

Li WF, Costa LG, Richter RJ, Hagen T, Shih DM, Tward A, Lulis AJ and Furlong CE. Catalytic efficiency determines the in-vivo efficacy of PON1 for detoxifying organophosphorus compounds. *Pharmacogenetics*. 2000; 10(9): 767-79. (PMCID11191881)

Lu C, Fenske RA, Simcox NJ and Kalman D. Pesticide exposure of children in an agricultural community: Evidence of household proximity to farmland and take home exposure pathways. *Environ Res*. 2000; 84(3): 290-302. (PMCID11097803)

Mirkes PE and Little SA. Cytochrome c release from mitochondria of early postimplantation murine embryos exposed to 4-hydroperoxycyclophosphamide, heat shock, and staurosporine. *Toxicol Appl Pharmacol*. 2000; 162(3): 197-206. (PMCID10652248 )

Mirkes PE, Wilson KL and Cornel LM. Teratogen-induced activation of ERK, JNK, and p38 MAP kinases in early postimplantation murine embryos. *Teratology*. 2000; 62(1): 14-25. (PMCID10861629)

Namgung U and Xia Z. Arsenite-induced apoptosis in cortical neurons is mediated by c-Jun N-terminal protein kinase 3 and p38 mitogen-activated protein kinase. *J Neurosci*. 2000; 20(17): 6442-6451. (PMCID10964950)

Ponce RA, Bartell SM, Wong EY, LaFlamme D, Carrington C, Lee RC, Patrick DL, Faustman EM and Bloger M. Use of quality-adjusted life year weights with dose-response models for public health decisions: A case study of the risks and benefits of fish consumption. *Risk Anal*. 2000; 20: 529-542. (PMCID11051076)

Poser S, Impey S, Trinh K, Xia Z and Storm DR. SRF-dependent gene expression is required for PI3-kinase-regulated cell proliferation. *Embo J*. 2000; 19(18): 4955-66. (PMCID10990459)

Wong EY, Shirai JH, Garlock TJ and Kissel JC. Adult proxy responses to a survey of children's dermal soil contact activities. *J Expo Anal Environ Epidemiol*. 2000; 10(6 Pt 1): 509-17. (PMCID11140435)

Wong EY, Shirai JH, Garlock TJ and Kissel JC. Survey of selected activities relevant to exposures to soils. *Bull Environ Contam Toxicol*. 2000; 65(4): 443-50. (PMCID10960134)

Bogdanffy MS, Daston G, Faustman EM, Kimmel CA, Kimmel GL, Seed J and Vu V. Harmonization of cancer and non-cancer risk assessment: proceedings of a consensus-building workshop. *Toxicol Sci*. 2001; 61(1): 18-31. <http://toxsci.oxfordjournals.org/cgi/content/full/61/1/18>.

Brophy VH, Hastings MD, Clendenning JB, Richter RJ, Jarvik GP and Furlong CE. Polymorphisms in the human paraoxonase (PON1) promoter. *Pharmacogenetics*. 2001; 11(1): 77-84.

<http://www.jpharmacogenetics.com/pt/re/pharmgen/pdfhandler.00008571-200102000-00009.pdf;jsessionid=JBpb5821yf7ISgpS5QXx1BXqLvtGDpfLkfcmmGvjfQQvtTTc4hr!-269263472!181195628!8091!-1>.

Brophy VH, Jampsa RL, Clendenning JB, McKinsty LA, Jarvik GP and Furlong CE. Effects of 5' Regulatory-Region Polymorphisms on Paraoxonase-Gene (PON1) Expression. *Am J Hum Genet*. 2001; 68(6): 1428-1436. (PMCID11335891)

Cavanaugh JE, Ham J, Hetman M, Poser S, Yan C and Xia Z. Differential regulation of mitogen-activated protein kinases ERK1/2 and ERK5 by neurotrophins, neuronal activity, and cAMP in neurons. *J Neurosci*. 2001; 21(2): 434-443. (PMCID11160424)

Chan GC, Lernmark U, Xia Z and Storm DR. DNA elements of the type 1 adenylyl cyclase gene locus enhance reporter gene expression in neurons and pinealocytes. *Eur J Neurosci*. 2001; 13(11): 2054-2066. (PMCID11422446)

- Costa LG. Pesticide exposure: differential risk for neurotoxic outcomes due to enzyme polymorphisms. *Clinics Occup. Environm. Med.* 2001; 1: 511-523.
- Costa LG, Guizzetti M, Lu H, Bordi F, Vitalone A, Tita B, Palmery M, Valeri P and Silvestrini B. Intracellular signal transduction pathways as targets for neurotoxicants. *Toxicology.* 2001; 160(1-3): 19-26. (PMCID11246120)
- Farrow SR, Wong E, Ponce RA, Faustman EM and Zerbe RO. Facilitating regulatory design and stakeholder participation: The FERET template with an application to the Clean Air Act. In: *Improving Regulation: Cases in Environment, Health and Safety.* Fischbeck P and Farrow S, ed. Resources for the Future Press: Washington, DC, 2001, 429-442.
- Figuroa-Masot XA, Hetman M, Higgins MJ, Kokot N and Xia Z. Taxol induces apoptosis in cortical neurons by a mechanism independent of Bcl-2 phosphorylation. *J Neurosci.* 2001; 21(13): 4657-4667. (PMCID11425893)
- Lu C, Knutson DE, Fisker-Andersen J and Fenske RA. Biological monitoring survey of organophosphorus pesticide exposure among pre-school children in the Seattle metropolitan area. *Environ Health Perspect.* 2001; 109(3): 299-303. (PMCID11333193)
- Mirkes P, Little S and Umpierre C. Co-localization of active caspase-3 and DNA fragmentation (TUNEL) in normal and hyperthermia-induced abnormal mouse development. *Teratology.* 2001; 63: 134-143. (PMCID11283970)
- Namgung U and Xia Z. Arsenic induces apoptosis in rat cerebellar neurons via activation of JNK3 and p38 MAP kinases. *Toxicol Appl Pharmacol.* 2001; 174(2): 130-8. (PMCID11446828)
- Ponce RA, Wong EY and Faustman EM. Quality adjusted life years (QALYs) and dose-response models in environmental health policy analysis -- methodological considerations. *Sci Total Environ.* 2001; 274(1-3): 79-91. (PMCID11453307)
- Sanga RN, Bartell SM, Ponce RA, Boischio AAP, Joiris CR, Pierce CH and Faustman EM. Effects of uncertainties on exposure estimates to methylmercury: A Monte Carlo analysis of biomarkers of exposure vs. predictive dietary estimation. *Risk Anal.* 2001; 21(5): 859-68. (PMCID11798122)
- Thompson B, Coronado GD, Puschel K and Allen E. Identifying constituents to participate in a project to control pesticide exposure in children of farmworkers. *Environ Health Perspect.* 2001; 109: 443-448. (PMCID11427394)
- Brophy VH, Jarvik GP and Furlong CE. PON1 polymorphisms. In: *Paraoxonase (PON1) in Health and Disease: Basic and Clinical Aspects.* Costa L and Furlong C, ed. Kluwer Academic Press: Boston, 2002, 53-77.
- Costa LG and Furlong CE, Ed. *Paraoxonase (PON1) in Health and Disease: Basic and Clinical Aspects.* Kluwer Academic Publishers Boston. 2002.
- Costa LG and Furlong CE. Perspectives in PON1 research. In: *Paraoxonase (PON1) in Health and Disease: Basic and Clinical Aspects.* Costa L and Furlong C, ed. Kluwer Academic Press: Boston, 2002, 197-210.
- Costa LG, Guizzetti M, Burry M and Oberdoerster J. Developmental neurotoxicity: do similar phenotypes indicate a common mode of action? A comparison of fetal alcohol syndrome, toluene embryopathy and maternal phenylketonuria. *Toxicol Lett.* 2002; 127(1-3): 197-205. (PMCID12052659)
- Costa LG, Li WF, Richter RJ, Shih DM, Lulis AJ and Furlong CE. PON1 and organophosphate toxicity. In: *Paraoxonase (PON1) in Health and Disease: Basic and Clinical Aspects.* Costa L and Furlong C, ed. Kluwer Academic Press: Boston, 2002, 165-183.
- Curl CL, Fenske RA, Kissel JC, Shirai JH, Moate TF, Griffith WC, Coronado G and Thompson B. Evaluation of take-home organophosphorus pesticide exposure among agricultural workers and their children. *Environ Health Perspect.* 2002; 110(12): 787-92. (PMCID12460819)

Faustman EM, Ponce RA, Ou YC, Mendoza MA, Lewandowski T and Kavanagh T. Investigations of methylmercury-induced alterations in neurogenesis. *Environ Health Perspect.* 2002: 110 Suppl 5: 859-64. (PMCID12426147)

Fenske RA, Kedan G, Lu C, Fisker-Andersen JA and Curl CL. Assessment of organophosphorous pesticide exposures in the diets of preschool children in Washington State. *J Expo Anal Environ Epidemiol.* 2002: 12(1): 21-8. (PMCID11859430)

Fenske RA, Lu C, Barr D and Needham L. Children's exposure to chlorpyrifos and parathion in an agricultural community in central Washington state. *Environ Health Perspect.* 2002: 110(5): 549-553. (PMCID12003762)

Furlong CE, Cole TB, Jarvik GP and Costa LG. Pharmacogenomic considerations of the paraoxonase polymorphisms. *Pharmacogenomics.* 2002: 3(3): 341-8. (PMCID12052142)

Furlong CE, Li WF, Shih AJ, Richter RJ and Costa LG. Genetic factors in susceptibility: Serum PON1 variation between individuals and species. *Human and Ecological Risk Assessment.* 2002: 8(1): 31-43. <http://web.ebscohost.com/ehost/pdf?vid=2&hid=109&sid=9cb2a562-1594-406c-9682-13793c0d8300%40sessionmgr7>.

Gohlke JM, Griffith WC, Bartell SM, Lewandowski TA and Faustman EM. A computational model for neocortical neuronogenesis predicts ethanol-induced neocortical neuron number deficits. *Dev Neurosci.* 2002: 24(6): 467-77. (PMCID12697984)

Hetman M, Hsuan SL, Habas A, Higgins MJ and Xia Z. ERK1/2 antagonizes glycogen synthase kinase-3beta-induced apoptosis in cortical neurons. *J Biol Chem.* 2002: 277(51): 49577-84. (PMCID12393899)

Judd NL, Griffith WC, Ylitalo GM and Faustman EM. Alternative strategies for PCB risk reduction from contaminated seafood: options for children as susceptible populations. *Bull Environ Contam and Toxicol.* 2002: 69: 847-854. (PMCID12428162)

Koch D, Lu C, Fisker-Andersen J, Jolley L and Fenske RA. Temporal association of children's pesticide exposure and agricultural spraying: report of a longitudinal biological monitoring study. *Environ Health Perspect.* 2002: 110(8): 829-833. (PMCID12153767)

Kornhauser JM, Cowan CW, Shaywitz AJ, Dolmetsch RE, Griffith EC, Hu LS, Haddad C, Xia Z and Greenberg M. CREB transcriptional activity in neurons is regulated by multiple, calcium-specific phosphorylation events. *Nuron.* 2002: 34: 221-233. (PMCID11970864)

Lewandowski TA, Pierce CH, Pingree SD, Hong S and Faustman EM. Methylmercury distribution in the pregnant rat and embryo during early midbrain organogenesis. *Teratology.* 2002: 66(5): 235-41. (PMCID12397631)

Little SA and Mirkes PE. Teratogen-induced activation of caspase-9 and the mitochondrial apoptotic pathway in early postimplantation mouse embryos. *Toxicol Appl Pharmacol.* 2002: 181(2): 142-51. (PMCID12051998)

Mendoza MA, Ponce RA, Ou YC and Faustman EM. p21(WAF1/CIP1) inhibits cell cycle progression but not G2/M-phase transition following methylmercury exposure. *Toxicol Appl Pharmacol.* 2002: 178(2): 117-25. (PMCID11814332)

Mirkes PE. 2001 Warkany lecture: to die or not to die, the role of apoptosis in normal and abnormal mammalian development. *Teratology.* 2002: 65(5): 228-39. (PMCID11967922)

Moate TF, Furia M, Curl C, Muniz JF, Yu J and Fenske RA. Size exclusion chromatographic cleanup for GC/MS determination of organophosphorus pesticide residues in household and vehicle dust. *J AOAC Int.* 2002: 85(1): 36-43. (PMCID11878617)

Polifka JE and Faustman EM. Developmental toxicity: web resources for evaluating risk in humans. *Toxicology.* 2002: 173(1-2): 35-65. (PMCID11955683)

Zhu Y, Mao XO, Sun Y, Xia Z and Greenberg DA. p38 Mitogen-activated protein kinase mediates hypoxic

regulation of Mdm2 and p53 in neurons. *J Biol Chem.* 2002: 277(25): 22909-14. (PMCID11948180)

Battuello K, Furlong CE, Fenske R, Austin M and Burke W. Paraoxonase polymorphisms and susceptibility to organophosphate pesticides: Implications for pesticide applicators. In: *Human Genome Epidemiology*. Khoury M, Little J and Burke W, ed. Oxford University Press: Oxford, U.W., 2003.

Burry M, Guizzetti M, Oberdoerster J and Costa LG. Developmental neurotoxicity of toluene: in vivo and in vitro effects on astroglial cells. *Dev Neurosci.* 2003: 25(1): 14-9. (PMCID12876426)

Cole TB, Jampsa RL, Walter BJ, Arndt TL, Richter RJ, Shih DM, Tward A, Lulis AJ, Jack RM, Costa LG and Furlong CE. Expression of human paraoxonase (PON1) during development. *Pharmacogenetics.* 2003: 13(6): 357-64. (PMCID12777966)

Costa LG, Cole TB and Furlong CE. Polymorphisms of paraoxonase (PON1) and their significance in clinical toxicology of organophosphates. *J Toxicol Clin Toxicol.* 2003: 41(1): 37-45. (PMCID12645966)

Costa LG, Cole TB, Jarvik GP and Furlong CE. Functional genomics of the PON1 polymorphisms: Effects on pesticide sensitivity, cardiovascular disease, and drug metabolism. *Ann Rev Med.* 2003: 54: 371-92. (PMCID12525679)

Costa LG, Richter RJ, Li WF, Cole T, Guizzetti M and Furlong CE. Paraoxonase (PON1) as a biomarker of susceptibility for organophosphate toxicity. *Biomarkers.* 2003: 8(1): 1-12.  
<http://web.ebscohost.com/ehost/pdf?vid=2&hid=113&sid=355de46e-480b-404b-a887-a6bbd8c12949%40sessionmgr3>.

Curl CL, Fenske RA and Elgethun K. Organophosphorus pesticide exposure of urban and suburban preschool children with organic and conventional diets. *Environ Health Perspect.* 2003: 111(3): 377-82. (PMCID12611667)

Drew CH, Grace DA, Silbernagel SM, Hemmings ES, Smith A, Griffith WC, Takaro T and Faustman EM. Nuclear waste transportation: case studies of identifying stakeholder risk information needs. *Environ Health Perspect.* 2003: 111(3): 263-72. (PMCID12611653)

Elgethun K, Fenske RA, Yost MG and Palcisko GJ. Time-location analysis for exposure assessment studies of children using a novel global positioning system instrument. *Environ Health Perspect.* 2003: 111(1): 115-22. (PMCID12515689)

Jarvik GP, Jampsa R, Richter RJ, Carlson CS, Rieder MJ, Nickerson DA and Furlong CE. Novel paraoxonase (PON1) nonsense and missense mutations predicted by functional genomic assay of PON1 status. *Pharmacogenetics.* 2003: 13(5): 291-5. (PMCID12724622)

Judd NJ, Karr JR, Griffith WC and Faustman EM. Challenges in defining background levels for human and ecological risk assessments. *Human and Ecological Risk Assessment.* 2003: 9(7): 1623-1632.  
<http://web.ebscohost.com/ehost/pdf?vid=2&hid=105&sid=06f22195-96ad-4b92-9312-d4f2ad89cc4c%40sessionmgr108>.

Judd NL, Griffith WC, Kalman DA and Faustman EM. Assessment of PCB congener analytical methods: do they meet risk assessment needs? *Arch Environ Contam Toxicol.* 2003: 44(1): 132-9. (PMCID12434228)

Judd NL, Griffith WC, Takaro T and Faustman EM. A model for optimization of biomarker testing frequency to minimize disease and cost: example of beryllium sensitization testing. *Risk Anal.* 2003: 23(6): 1211-20. (PMCID14641896)

Kelada SN, Costa-Mallen P, Checkoway H, Viernes HA, Farin FM, Smith-Weller T, Franklin GM, Costa LG, Longstreth WT, Jr., Furlong CE, Jarvik GP and Swanson PD. Paraoxonase 1 promoter and coding region polymorphisms in Parkinson's disease. *J Neurol Neurosurg Psychiatry.* 2003: 74(4): 546-7. (PMCID12640090)

Kelada SN, Stapleton PL, Farin FM, Bammler TK, Eaton DL, Smith-Weller T, Franklin GM, Swanson PD, Longstreth WT, Jr. and Checkoway H. Glutathione S-transferase M1, T1, and P1 polymorphisms and Parkinson's disease. *Neurosci Lett.* 2003: 337(1): 5-8. (PMCID12524158)

Lewandowski TA, Ponce RA, Charleston JS, Hong S and Faustman EM. Changes in cell cycle parameters and cell number in the rat midbrain during organogenesis. *Brain Res Dev Brain Res*. 2003: 141(1-2): 117-28. (PMCID12644255)

Lewandowski TA, Ponce RA, Charleston JS, Hong S and Faustman EM. Effect of methylmercury on midbrain cell proliferation during organogenesis: potential cross-species differences and implications for risk assessment. *Toxicol Sci*. 2003: 75(1): 124-33. (PMCID12805652)

Luderer U, Diaz D, Faustman EM and Kavanagh TJ. Localization of glutamate cysteine ligase subunit mRNA within the rat ovary and relationship to follicular apoptosis. *Mol Reprod Dev*. 2003: 65(3): 254-61. (PMCID12784246)

Thompson B, Coronado GD, Grossman JE, Puschel K, Solomon CC, Islas I, Curl CL, Shirai JH, Kissel JC and Fenske RA. Pesticide take-home pathway among children of agricultural workers: study design, methods, and baseline findings. *J Occup Environ Med*. 2003: 45(1): 42-53. (PMCID12553178)

Wong EY, Ponce RA, Farrow S, Bartell SM, Lee RC and Faustman EM. Comparative risk and policy analysis in environmental health. *Risk Anal*. 2003: 23(6): 1337-49. (PMCID14641905)

Coronado GD, Thompson B, Strong L, Griffith WC and Islas I. Agricultural task and exposure to organophosphate pesticides among farmworkers. *Environ Health Perspect*. 2004: 112(2): 142-7. (PMCID14754567)

Costa LG, Aschner M, Vitalone A, Syversen T and Soldin OP. Developmental neuropathology of environmental agents. *Annu Rev Pharmacol Toxicol*. 2004: 44: 87-110. (PMCID14744240)

Eskenazi B, Harley K, Bradman A, Weltzin E, Jewell NP, Furlong CE and Holland NT. Association of in utero organophosphate pesticide exposure and fetal growth and length of gestation in an agricultural population. *Environ Health Perspect*. 2004: 112(10): 1116-1124. (PMCID1247387)

Gohlke J, Griffith WC and Faustman EM. The role of cell death during neocortical neurogenesis and synaptogenesis: implications from a computational model for the rat and mouse. *Brain Res Dev Brain Res*. 2004: 151(1-2): 43-54. (PMCID15246691)

Judd NL, Griffith WC and Faustman EM. Contribution of PCB exposure from fish consumption to total dioxin-like dietary exposure. *Regul Toxicol Pharmacol*. 2004: 40(2): 125-35. (PMCID15450716)

Judd NL, Griffith WC and Faustman EM. Consideration of cultural and lifestyle factors in defining susceptible populations for environmental disease. *Toxicology*. 2004: 198(1-3): 121-133. (PMCID15138036)

Ramaprasad J, Tsai M-Y, Elgethun K, Hebert VR, Felsot A, Yost MG and Fenske RA. The Washington aerial spray drift study: Assessment of off-target organophosphorus insecticide atmospheric movement by plant surface volatilization. *Atmospheric Environment*. 2004: 38: 5703-5713. (PMCID18957992)

Strong LL, Thompson B, Coronado GD, Griffith WC, Vigoren EM and Islas I. Health symptoms and exposure to organophosphate pesticides in farmworkers. *Am J Ind Med*. 2004: 46(6): 599-606. (PMCID15551369)

Wong EY, Gohlke J, Griffith WC, Farrow S and Faustman EM. Assessing the health benefits of air pollution reduction for children. *Environ Health Perspect*. 2004: 112(2): 226-32. (PMCID14754578)

Cole TB, Walter BJ, Shih DM, Tward AD, Lulis AJ, Timchalk C, Richter RJ, Costa LG and Furlong CE. Toxicity of chlorpyrifos and chlorpyrifos oxon in a transgenic mouse model of the human paraoxonase (PON1) Q192R polymorphism. *Pharmacogenet Genomics*. 2005: 15(8): 589-98. (PMCID16007003)

Costa LG, Cole TB and Furlong CE. Paraoxonase (PON1): From toxicology to cardiovascular medicine. *Acta Biomed Ateneo Parmense*. 2005: 76(Suppl 2): 50-57. (PMCID16353344)

Costa LG, Cole TB, Vitalone A and Furlong CE. Measurement of paraoxonase (PON1) status as a potential biomarker of susceptibility to organophosphate toxicity. *Clin Chim Acta*. 2005: 352(1-2): 37-47. (PMCID15653099)

Costa LG, Vitalone A, Cole TB and Furlong CE. Modulation of paraoxonase (PON1) activity. *Biochem Pharmacol.* 2005; 69(4): 541-550. (PMCID15670573)

Ezkenazi B, Gladstone EA, Berkowitz GS, Drew CH, Faustman EM, Holland NT, Lanphear B, Meisel SJ, Perera FP, Rauh VA, Sweeney A, Whyatt RM and Yolton K. Methodologic and logistic issues in conducting longitudinal birth cohort studies: lessons learned from the Centers for Children's Environmental Health and Disease Prevention Research. *Environ Health Perspect.* 2005; 113(10): 1419-1429. (PMCID16203258 )

Faustman EM, Gohlke JM, Judd NL, Lewandowski T, Bartell SM and Griffith WC. Modeling developmental processes in animals: Applications in neurodevelopmental toxicology. *Environmental Toxicology and Pharmacology.* 2005; 19(3): 615-624. [http://www.sciencedirect.com/science?\\_ob=ArticleURL&\\_udi=B6T6D-4FN2N9V-](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T6D-4FN2N9V-)

[1&\\_user=582538&\\_rdoc=1&\\_fmt=&\\_orig=search&\\_sort=d&view=c&\\_acct=C000029718&\\_version=1&\\_urlVersion=0&\\_userid=582538&md5=04f618b68f7e6baee98b497caf0179ab](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T6D-4FN2N9V-1&_user=582538&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000029718&_version=1&_urlVersion=0&_userid=582538&md5=04f618b68f7e6baee98b497caf0179ab).

Faustman EM, Gohlke JM, Ponce RA, Lewandowski TA, Seeley MR, Whittaker SG and Griffith WC. Experimental Approaches to Evaluate Mechanisms of Developmental Toxicity. In: *Developmental and Reproductive Toxicology: A Practical Approach*. Hood RD, ed. CRC Press: Boca Raton, FL, 2005.

Fenske R, Bradman A, Whyatt RM, Wolff M and Barr D. Lessons learned for the assessment of children's pesticide exposure: critical sampling and analytical issues for future studies. *Environ Health Perspect.* 2005; 113(10): 1455-62. (PMCID16203262)

Fenske R, Lu C, Curl C, Shirai JH and Kissel J. Biologic monitoring to characterize organophosphorus pesticide exposure among children and workers: an analysis of recent studies in Washington State. *Environ Health Perspect.* 2005; 113(11): 1651-7. (PMCID16263526)

Furlong CE, Cole TB, Jarvik GP, Pettan-Brewer C, Geiss GK, Richter RJ, Shih DM, Tward AD, Lulis AJ and Costa LG. Role of paraoxonase (PON1) status in pesticide sensitivity: genetic and temporal determinants. *Neurotoxicology.* 2005; 26(4): 651-9. (PMCID16112327)

Furlong CE, Cole TB, Walter BJ, Shih DM, Tward A, Lulis AJ, Timchalk C, Richter RJ and Costa LG. Paraoxonase 1 (PON1) status and risk of insecticide exposure. *J Biochem Mol Toxicol.* 2005; 19(3): 182-3. (PMCID15977192)

Gohlke J, Griffith WC and Faustman EM. A systems-based computational model for dose-response comparisons of two mode of action hypotheses for ethanol-induced neurodevelopmental toxicity. *Toxicol Sci.* 2005; 86(2): 470-484. (PMCID15917484)

Gribble EJ, Hong SW and Faustman EM. The magnitude of methylmercury-induced cytotoxicity and cell cycle arrest is p53-dependent. *Birth Defects Res A Clin Mol Teratol.* 2005; 73(1): 29-38. (PMCID15641097)

Guizzetti M, Pathak S, Giordano G and Costa LG. Effect of organophosphorus insecticides and their metabolites on astroglial cell proliferation. *Toxicology.* 2005; 215: 182-190. (PMCID16102884)

Israel BA, Parker EA, Rowe Z, Salvatore A, Minkler M, Lopez J, Butz A, Mosley A, Coates L, Lambert G, Potito PA, Brenner B, Rivera M, Romero H, Thompson B, Coronado GD and Halstead S. Community-based participatory research: Lessons learned from the Centers For Children's Environmental Health and Disease Prevention Research. *Environ Health Perspect.* 2005; 113: 1463-1471. (PMCID16203263)

Kissel J, Curl C, Kedan G, Lu C, Griffith W, Barr D, Needham L and Fenske R. Comparison of organophosphorus pesticide metabolite levels in single and multiple daily urine samples collected from preschool children in Washington State. *J Expo Anal Environ Epidemiol.* 2005; 15(2): 164-171. (PMCID15187987)

Tsai M, Elgethun K, Ramaprasad J, Yost M, Felsot A, Hebert V and Fenske R. The Washington aerial spray drift study: Modeling pesticide spray drift deposition from an aerial application. *Atmospheric Environment.* 2005; 39(33): 6194-6203. [feql.wsu.edu/pubs/aenv39vh.pdf](http://feql.wsu.edu/pubs/aenv39vh.pdf).

- Young JG, Eskenazi B, Gladstone EA, Bradman A, Pedersen L, Johnson C, Barr DB, Furlong CE and Holland NT. Association between in utero organophosphate pesticide exposure and abnormal reflexes in neonates. *Neurotoxicology*. 2005; 26(2): 199-209. (PMCID15713341)
- Yu X, Sidhu JS, Hong S and Faustman EM. 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. *Toxicol Sci*. 2005; 84(2): 378-393. (PMCID15659572)
- Coronado GD, Vigoren EM, Thompson B, Griffith WC and Faustman EM. Organophosphate pesticide exposure and work in pome fruit: evidence for the take-home pesticide pathway. *Environ Health Perspect*. 2006; 114(7): 999-1006. (PMCID16835050)
- Costa LG. Current issues in organophosphate toxicology. *Clin Chim Acta*. 2006; 366(1-2): 1-13. (PMCID16337171)
- Costa LG. Receptors and Ion Channels. In: *Gene-Environment Interactions: Fundamentals of Ecogenetics*. Costa L and Eaton D, ed. John Wiley & Sons: Hoboken, NJ, 2006.
- Costa LG, Cole T and Furlong C. Gene-environment interactions: paraoxonase (PON1) and sensitivity to organophosphate toxicity. *Lab Med* 2006; 37: 1-5.
- Costa LG, Cole T, Geiss GK and Furlong CE. Paraoxonase, butyrylcholinesterase, and epoxide hydrolase. In: *Gene-Environment Interactions: Fundamentals of Ecogenetics*. Costa LG and Eaton DL, ed. John Wiley & Sons: Hoboken, NJ, 2006.
- Costa LG and Eaton DL, Ed. *Gene-Environment Interactions: Fundamentals of Ecogenetics*. John Wiley & Sons Hoboken, NJ. 2006.
- Faustman EM. Innovative approaches in assessing children's exposure to pesticides. *Northwest Bulletin: Family and Child Health*. 2006; 21(1): 2-5. <http://depts.washington.edu/nwbfch/PDFs/NWBv21n1.pdf>.
- Faustman EM, Gohlke JM, Lewandowski TA, Bartell SA, Judd NL, Vigoren EM and Griffith WC. Modeling developmental processes in animals: Applications in neurodevelopmental toxicology. *U. S. Environmental Protection Agency (EPA). National Center for Environmental Assessment, Washington, DC; EPA/600/P-04/110A*. 2006.
- Faustman EM, Griffith WC, Vigoren EM, Ramaprasad J, Coronado GD, Thompson B and Gohlke JM. Evaluation of exposure of young children of orchard workers to organophosphate pesticides. *International Conference on Environmental Epidemiology and Exposure*. 2006; MAA2-PD-07: 14:50. Paris, France.
- Faustman EM and Omenn GS. Risk Assessment and the Impact of Ecogenetics. In: *Gene-Environment Interactions: Fundamentals of Ecogenetics*. Costa L and Eaton D, ed. John Wiley & Sons: Hoboken, NJ, 2006.
- Furlong CE, Holland N, Richter RJ, Bradman A, Ho A and Eskenazi B. PON1 status of farmworker mothers and children as a predictor of organophosphate sensitivity. *Pharmacogenet Genomics*. 2006; 16(3): 183-190. (PMCID16495777)
- Holland N, Furlong CE, Bastaki M, Richter R, Bradman A, Ho A, Beckman K and Eskenazi B. Paraoxonase polymorphisms, haplotypes and enzyme activity in Latino mothers and newborns. *Environ Health Perspect*. 2006; 114(7): 985-991. (PMCID16835048)
- Kelada SN, Checkoway H and Costa LG, Ed. *Neurodegenerative Diseases*. Gene-Environment Interactions: Fundamentals of Ecogenetics. John Wiley & Sons Hoboken, NJ. 2006.
- Sidhu JS, Ponce RA, Vredevoogd MA, Yu X, Gribble E, Hong SW, Schneider E and Faustman EM. Cell cycle inhibition by sodium arsenite in primary embryonic rat midbrain neuroepithelial cells. *Toxicol Sci*. 2006; 89(2): 475-484. (PMCID16251481)
- Thompson B. A community intervenes: Reducing children's pesticide exposure *Northwest Public Health*. 2006; 23(2): 14-15. <http://www.nwpublichealth.org/archives/f2006>.

Thompson B. Reducing children's pesticide exposure in Yakima Valley farming communities: Simple messages that work. *Northwest Bulletin: Family and Child Health*. 2006: 21(1): 6-8. <http://depts.washington.edu/nwbfch/PDFs/NWBv21n1.pdf>.

Weppner S, Elgethun K, Lu C, Hebert V, Yost MG and Fenske RA. The Washington aerial spray drift study: children's exposure to methamidophos in an agricultural community following fixed-wing aircraft applications. *J Expo Sci Environ Epidemiol*. 2006: 16(5): 387-96. (PMCID16249796)

Yu X, Griffith WC, Hanspers K, Dillman JF, Ong H, Vredevoogd MA and Faustman EM. A System-Based Approach to Interpret Dose and Time-dependent Microarray Data: Quantitative Integration of GO Ontology Analysis for Risk Assessment. *Toxicol Sci*. 2006: 92(2): 560-577. (PMCID16601082 )

Bekris LM, Shephard C, Janer M, Graham J, McNeney B, Shin J, Zarghami M, Griffith W, Farin F, Kavanagh TJ and Lernmark A. Glutamate cysteine ligase catalytic subunit promoter polymorphisms and associations with type 1 diabetes age-at-onset and GAD65 autoantibody levels. *Exp Clin Endocrinol Diabetes*. 2007: 115(4): 221-8. (PMCID17479437)

Costa LG, Cole TB, Jansen KL and Furlong CE. Paraoxonase (PON1) and organophosphate toxicity. In: *The Paraoxonases: Their Role in Disease Development and Xenobiotic Metabolism*. B Mackness MM, M Aviram, G Paragh, ed. Springer, 2007, 209-220.

Drew CH, Kern M, Martin T, Blozek ML, Power M and Faustman EM. The Hanford Openness Workshops: Fostering open and transparent long-term decision making at the department of energy. In: *Long Term Management of Contaminated Sites*. . 13, ed. Elsevier, 2007, 13-48.

Elgethun K, Yost MG, Fitzpatrick CT, Nyerges TL and Fenske RA. Comparison of global positioning system (GPS) tracking and parent-report diaries to characterize children's time-location patterns. *J Expo Sci Environ Epidemiol*. 2007: 17(2): 196-206. (PMCID16773123)

Furlong CE. Genetic variability in the cytochrome P450-paraoxonase 1 (PON1) pathway for detoxication of organophosphorus compounds. *J Biochem Molecular Toxicology*. 2007: 21(4): 197-205. (PMCID17936934)

Furlong CE, Richter RJ, Li WF, Brophy VH, Carlson CS, Rieder MJ, Nickerson DA, Costa LG, Ranchalis J, Lusi AJ, Shih DM, Tward AJ and Jarvik GP. The functional consequences of polymorphisms in the human PON1 gene. In: *The Paraoxonases: Their Role in Disease Development and Xenobiotic Metabolism*. B Mackness MM, M Aviram, G Paragh, ed. Springer, 2007, 267-281.

Giordano G, Afsharinejad Z, Guizzetti M, Vitalone A, Kavanagh TJ and Costa LG. Organophosphorus insecticides chlorpyrifos and diazinon and oxidative stress in neuronal cells in a genetic model of glutathione deficiency. *Toxicol Appl Pharmacol*. 2007: 219(2-3): 181-9. (PMCID17084875)

Gohlke J, Griffith WC and Faustman EM. Computational models of neocortical neurogenesis and programmed cell death in the developing mouse, monkey and human. *Cereb Cortex*. 2007: 17(10): 2433-42. (PMCID17204816)

Snipes S, Thompson B, O'Connor K, Godina R and Ibarra G. Anthropological and psychological merge: design of a stress measure for Mexican farmworkers. *Cult Med Psychiatry*. 2007: 31(3): 359-88. (PMCID17955350)

Stevens RC, Soelberg SD, Eberhart BL, Spencer S, Wekell JC, Chinowsky TM, Trainer VL and Furlong CE. Detection of the toxin domoic acid from clam extracts using a portable surface plasmon resonance biosensor. *Harmful Algae*. 2007: 6(2): 166-174. [http://www.sciencedirect.com/science\\_ob=ArticleURL&\\_udi=B73D7-4KRNR34-](http://www.sciencedirect.com/science_ob=ArticleURL&_udi=B73D7-4KRNR34-1&_user=582538&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000029718&_version=1&_urlVersion=0&_userid=582538&md5=b4c0c22cd72fa62d89dfc480e03b9112)

[1&\\_user=582538&\\_rdoc=1&\\_fmt=&\\_orig=search&\\_sort=d&view=c&\\_acct=C000029718&\\_version=1&\\_urlVersion=0&\\_userid=582538&md5=b4c0c22cd72fa62d89dfc480e03b9112](http://www.sciencedirect.com/science_ob=ArticleURL&_udi=B73D7-4KRNR34-1&_user=582538&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000029718&_version=1&_urlVersion=0&_userid=582538&md5=b4c0c22cd72fa62d89dfc480e03b9112).

Bal-Price AK, Sunol C, Weiss DG, van Vliet E, Westerink RH and Costa LG. Application of in vitro neurotoxicity testing for regulatory purposes: Symposium III summary and research needs. *Neurotoxicology*. 2008: 29(3): 520-31. (PMCID18417220)

Costa LG. Toxic effects of pesticides. In: *Casarett and Doull's Toxicology. The Basic Science of Poisons*. Klaassen C, ed. McGraw-Hill: New York, NY, 2008, 883-930.

Costa LG, Giordano G, Guizzetti M and Vitalone A. Neurotoxicity of pesticides: a brief review. *Front Biosci*. 2008; 13: 1240-9. (PMCID17981626)

Cullen AC, Corrales MA, Kramer CB and Faustman EM. The application of genetic information for regulatory standard setting under the clean air act: a decision-analytic approach. *Risk Anal*. 2008; 28(4): 877-90. (PMCID18631305)

Eaton DL, Daroff RB, Autrup H, Bridges J, Buffler P, Costa LG, Coyle J, McKhann G, Mobley WC, Nadel L, Neubert D, Schulte-Hermann R and Spencer PS. Review of the toxicology of chlorpyrifos with an emphasis on human exposure and neurodevelopment. *Crit Rev Toxicol*. 2008; 38 Suppl 2: 1-125. (PMCID18726789)

Faustman EM and Omenn GS. Risk Assessment. In: *Casarett and Doull's Toxicology: The Basic Science of Poisons*. Klaassen C, ed. McGraw-Hill: New York, 2008, 107-128.

Furlong CE. The Bert La Du Memorial Lecture: Paraoxonases: an historical perspective. In: *The Paraoxonases: Their Role In Disease, Development And Xenobiotic Metabolism*. B Mackness MM, M Aviram and G Paragh ed. Springer: Dordrecht, The Netherlands, 2008, 3-31.

Garry MR, Kavanagh TJ, Faustman EM, Sidhu JS, Liao R, Ware C, Vliet P and Deeb S. Sensitivity of mouse lung fibroblasts heterozygous for GPx4 to oxidative stress. *Free Radic Biol Med*. . 2008; 44(6): 1075-87. (PMCID18206984)

Gohlke JM, Griffith WC and Faustman EM. Computational models of ethanol-induced neurodevelopmental toxicity across species: Implications for risk assessment. *Birth Defects Res B Dev Reprod Toxicol*. 2008; 83(1): 1-11. (PMCID18161053)

Guizzetti M, Moore NH, Giordano G and Costa LG. Modulation of neuritogenesis by astrocyte muscarinic receptors. *J Biol Chem*. 2008; 283(46): 31884-97. (PMCID18755690)

Richter RJ, Jarvik GP and Furlong CE. Determination of paraoxonase (PON1) status without the use of toxic organophosphate substrates. *Circulation: Cardiovascular Genetics*. 2008; 1: 147-152.

Stevens RC, Suzuki SM, Cole TB, Park SS, Richter RJ and Furlong CE. Engineered recombinant human paraoxonase 1 (rHUPON1) purified from *Escherichia coli* protects against organophosphate poisoning. 2008; 105: 12780-12784. (PMCID18711144)

Strong LL, Thompson B, Koepsell TD and Meischke H. Factors associated with pesticide safety practices in farmworkers. *Am J Ind Med*. 2008; 51(1): 69-81. (PMCID18033725)

Thompson B, Coronado GD, Vigoren EM, Griffith EC, Fenske R, Kissel J, Shirai JH and Faustman EM. Para ninos saludables: a community intervention trial to reduce organophosphate pesticide exposure in children of farmworkers. *Environ Health Perspect*. 2008; 116(5): 687-94. (PMCID18470300 )

Wills AM, Landers JE, Zhang H, Richter RJ, Caraganis AJ, Cudkowicz ME, Furlong CE and Brown RH, Jr. Paraoxonase 1 (PON1) organophosphate hydrolysis is not reduced in ALS. *Neurology*. 2008; 70(12): 929-34. (PMCID18347314)

Yu X, Hong S and Faustman EM. Cadmium-induced activation of stress signaling pathways, disruption of ubiquitin-dependent protein degradation and apoptosis in primary rat Sertoli cell-gonocyte cocultures. *Toxicol Sci*. 2008; 104(2): 385-96. (PMCID18463101)

Yu X, Robinson JF, Gribble E, Hong SW, Sidhu JS and Faustman EM. Gene expression profiling analysis reveals arsenic-induced cell cycle arrest and apoptosis in p53-proficient and p53-deficient cells through differential gene pathways. *Toxicol Appl Pharmacol*. 2008; 233(3): 389-403. (PMCID18929588)

Ramaprasad J, Tsai MG, Fenske RA, Faustman EM, Griffith WC, Felsot AS, Elgethun K, Weppner S and Yost MG. Children's inhalation exposure to methamidophos from sprayed potato fields in Washington State:

Exploring the use of probabilistic modeling of meteorological data in exposure assessment. *J Expo Sci Environ Epidemiol*. 2008: Epub ahead of print. (PMCID18957992)

Costa LG, Furlong C.E, Richter RJ, Li WF, Brophy VH, Carlson CS, Rieder MJ, Nickerson DA, Ranchali sJ, Lulis A, Shih DM, Tward A and Jarvik GP. Paraoxonase and the detoxication of nerve agents. In: *Handbook of the Toxicology of Chemical Warfare Agents*. Gupta R, ed. Elsevier, 2009.

Huen K, Richter R, Furlong C, Eskenazi B and Holland N. Validation of PON1 enzyme activity assays for longitudinal studies. *Clin Chim Acta*. 2009: 402(1-2): 67-74. (PMCID19146843)

Livaudais JC, Thompson B, Islas I, Ibarra G, Anderson J and Coronado GD. Workplace exposures and protective practices of Hispanic warehouse workers. *J Immigr Minor Health*. 2009: 11(2): 122-30. (PMCID18543104)

Locke E, Coronado GD, Thompson B and Kuniyuki A. Seasonal variation in fruit and vegetable consumption in a rural agricultural community. *J Am Diet Assoc*. 2009: 109(1): 45-51. (PMCID19103322)

Richter RJ, Jarvik GP and Furlong CE. Paraoxonase 1 (PON1) status and substrate hydrolysis. *Toxicol Appl Pharmacol*. 2009: 235(1): 1-9. (PMCID19071155)

Robinson JF, Yu X, Hong S, Griffith WC, Beyer R, Kim E and Faustman EM. Cadmium-induced differential toxicogenomic response in resistant and sensitive mouse strains undergoing neurulation. *Toxicol Sci*. 2009: 107(1): 206-19. (PMCID18974090)

Strong LL and Thompson B. Perspectives of mothers in farmworker households on reducing the take-home pathway of pesticide exposure. *Health Education and Behavior*. 2009: doi:10.1177/1090198108328911. (PMCID19136611)

Coronado GD, Vigoren EM, Griffith WC, Faustman EM and Thompson B. Organophosphate Pesticide Exposure Among Pome and Non-Pome Farmworkers: A Subgroup Analysis of a Community Randomized Trial. *J Occup Environ Med*. 2009: Epub ahead of print. (PMCID19322108)

### **Center Abstracts (Not Comprehensive)**

Burbacher TM, Grant KS, Gilbert SG and Rice DC. The effects of methylmercury exposure on visual and auditory functions in nonhuman primates. *Toxicologist*. 1999: 19: 243.

Kissel J, Kedan G, Wawrukiewicz A and Fenske R. Attempted reconciliation of predicted children's exposures to organophosphate pesticides with measured metabolite levels in urine. *Epidemiology*. 1999: 10(4): S110.

Brophy VH, Jampsa RL, Richter RJ, Jarvik GP and Furlong CE. Paraoxonase (PON1) regulatory region polymorphisms affect activity level. *Toxicol. Sci*. 2001: 60(Supp): 51.

Grossman JE. Thesis: The take-home pathway for agricultural pesticides: contribution of occupational factors to home contamination. School of Public Health and Community Medicine. 2001: University of Washington. Seattle, WA.

Judd NL, Faustman EM, Griffith WC and Kalman DA. A value of information assessment for congener specific analytical techniques for PCBs: do they meet risk assessment needs? *Toxicologist*. 2001: 60(1): 256.

Cole TB, Li WF, Richter RJ, Furlong CE and Costa LG. Inhibition of paraoxonase (PON1) by heavy metals. *Toxicological Sci*. 2002: 66(Suppl. 1): 312.

Furlong CE, Cole TB, Li WF, Arndt T, Shih DM, Tward A, Lulis A and Costa LG. Organophosphate toxicity in mice expressing the human 192R or 192Q isoforms of paraoxonase (PON1). *Toxicological Sci*. 2002: 66(Late-breaking Abstracts): 35.

Judd NJ, Griffith WC and Faustman EM. Evaluation of TEQ exposure from fish consumption relative to average population total exposure: Implications for PCB, PCDF, and PCDD risk management. *Toxicologist*. 2002: 66(1-S): 105.

Wong EY, Farrow S, Ponce RA and Faustman EM. Examination of health toxicity data with application to benefit-cost analysis of environmental health policy. *Toxicologist*. 2002: 66(1-S): 100.

Wong EY, Gohlke J, Griffith WC, Farrow S and Faustman EM. Examination of children's health effects for benefit cost analysis of air pollutant regulations. New Orleans, LA: Society for Risk Analysis. 2002.

Cole TB, Walter BJ, Costa LG, Richter RJ, Pettan-Brewer C, Shih DM, Tward A, Lulis AJ and Furlong CE. Contribution of paraoxonase (PON1) levels and Q192R genotype to organophosphate detoxication: evidence from humans and "humanized" transgenic mice. *Toxicol. Sci.* 2003: 72(Suppl. 1): 100.

Furlong CE, Rieder MJ, Carlson CS, Nickerson DA, Jampsa RL, Costa LG and Jarvik GP. New polymorphisms in the human paraoxonase (PON1) gene. *Toxicol. Sci.* 2003: 72(Suppl. 1): 100.

Garry MR, Sidhu JS, Kavanagh TJ and Faustman EM. Differential modulation of stress and ubiquitination signaling pathways by Cadmium, H<sub>2</sub>O<sub>2</sub>, and serum withdrawal in cultured mouse fibroblasts. *Toxicologist*. 2003: 72: 311.

Gohlke JM, Griffith WC and Faustman EM. Evaluation of interspecies variability during neocortical neurogenesis using biologically based computational models. *Toxicologist*. 2003: 72: 179.

Gribble EJ, Mendoza A, Hong SW, Sidhu JS and Faustman EM. Evaluation of cell cycle kinetics in p53 mouse embryonal fibroblasts: Effects of methylmercury. *Toxicologist*. 2003: 72(322).

Griffith WC, Gohlke JM, Lewandowski TA, Medndoz MC, Ponce RA and Faustman EM. Building BBDR models for cell signaling pathways using transgenic animal models. *Toxicologist*. 2003: 72: 182.

Hong S, Sidhu JS, Kim E and Faustman EM. Refinement of high-throughput 2D-Page technique for the evaluation of ubiquitin-conjugated protein status induced by developmental toxicants. *Toxicologist*. 2003: 72: 732.

Sidhu JS, Hong S, Erickson A, Baker A, Robinson J, Vliet P and Faustman EM. Methylmercury induces differential ubiquitin-conjugated protein levels in p53 variant mouse embryonal fibroblasts. *Toxicologist*. 2003: 72: 323.

Takaro TK, Griffith WC, Omri D, Checkoway H and Faustman EM. Asbestos and radiation as combined exposures in pulmonary fibrosis. *Toxicologist*. 2003: 72: 220.

Coronado GD, Thompson B and Griffith WC. Children's exposure to OP pesticides: Response to Fenske et al. *Environ Health Perspect*. 2004: 112(15): A866.


Coronado GD, Thompson B, Strong L, Griffith WC and Islas I. Activities and organophosphate exposures: Response. *Environ Health Perspect*. 2004: 112(13): A725-A726.

Gribble EJ, Hong S, Sidhu JS and Faustman EM. Kinetic and dynamic characterization of a mouse embryonal mesencephalon neuronal precursor cell culture. *Birth Defects Research* 2005: 73(5): 301.

Vredevoogd MA, Yu X, Younglove LR, Griffith WC and Faustman EM. Challenges in incorporating genomic information into risk assessment: Development of a systems biology framework. *Society for Risk Analysis Annual Meeting, Palm Springs, CA*. 2005.

Faustman EM, Griffith WC and Vigoren EM. Lessons learned from longitudinal studies to identify high exposure groups using OP pesticide urinary biomarkers. *Toxicology Letters*. 2006: 164(Supplement 1): S161.

Giordano G, Afsharinejad Z, Kavanagh TJ and Costa LG. Reactive oxygen species mediate the neurotoxicity induced by organophosphorus insecticides in mouse cerebellar granule cells. *Toxicologist*. 2006: 90: 301.



Gribble EJ, Yu X, Hong S and Faustman EM. A role for p53 in mouse midbrain neural precursor cell (NPC) cell cycle arrest and premature neuronal differentiation following methylmercury exposure. *Toxicologist*. 2006: 90: 366.

Griffith W, Yu X, Nanspers K, Dillman JF, Ong H, Vredevoogd MA and 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*. 2006.

Griffith WC, DeFrank NM, Gohlke JM, Gribble EJ and Faustman EM. Systems biology models for integration of diverse studies of the developing neocortex after exposure to low dose radiation from external and internal sources. *Toxicologist*. 2006: 90: 336.

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. *Toxicologist*. 2006: 90: 91-92.

Robinson JF, Yu X, Hong S, Kim E, Sullivan R, Griffith WC and Faustman EM. Differential impact of cadmium on gene expression during neuralation in the C57BL/6 and SWV. *Birth Defects Research Part A*. 2006: 76(5): 392.

Vigoren EM, Griffith WC, Coronado GD, Thompson B and Faustman EM. Methods for assessing the effect of a randomized community educational intervention on the take-home pathway of organophosphate pesticide exposure. *Society for Risk Analysis Annual Meeting, Baltimore, MD*. 2006.

Yu X, Griffith WC, Hanspers K, Ong H and Faustman EM. A systems based approach to identify potential signalling pathways during gonad development from microarray data. *Birth Defects Research Part A*. 2006: 76(5): 339.

Yu X, Griffith WC, Hanspers K, Robinson JF and Faustman EM. Functional interpretation of dose and time-dependent microarray data: Quantitative integration of GO ontology analysis for toxicology and risk assessment. *Toxicologist*. 2006: 90: 182-183.

