

**Preliminary Reference List for 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD):  
In Vivo Mammalian Dose-Response and Epidemiological Studies**

- 't Mannelje, A., D. McLean, S. Cheng, P. Boffetta, D. Colin and N. Pearce. 2005. Mortality in New Zealand workers exposed to phenoxy herbicides and dioxins. *Occup. Environ. Med.* 62(1):34-40.
- Abadin, H.G., C.H. Chou and F.T. Lladós. 2007. Health effects classification and its role in the derivation of minimal risk levels: immunological effects. *Regul. Toxicol. Pharmacol.* 47(3):249-256.
- Abbott, B.D., T.M. Lin, N.T. Rasmussen, R.M. Albrecht, J.E. Schmid and R.E. Peterson. 2003. Lack of expression of EGF and TGF- $\alpha$  in the fetal mouse alters formation of prostatic epithelial buds and influences the response to TCDD. *Toxicol. Sci.* 76(2):427-436.
- Abraham, K., A. Geusau, Y. Tosun, H. Helge, S. Bauer and J. Brockmoller. 2002. Severe 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) intoxication: insights into the measurement of hepatic cytochrome P450 1A2 induction. *Clin. Pharmacol. Ther.* 72(2):163-174.
- Adamsson, A., U. Simanainen, M. Viluksela, J. Paranko and J. Toppari. 2008. The effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin on foetal male rat steroidogenesis. *Int. J. Androl.*
- Ahmad, K. 2002. Agent Orange no longer linked to childhood AML. *Lancet Oncol.* 3(4):199.
- Alaluusua, S. and P.L. Lukinmaa. 2006. Developmental dental toxicity of dioxin and related compounds--a review. *Int. Dent. J.* 56(6):323-331.
- Alaluusua, S., H. Kiviranta, A. Leppaniemi, P. Holttä, P.L. Lukinmaa, L. Lope, A.L. Jarvenpää, M. Renlund, J. Toppari, H. Virtanen, M. Kaleva and T. Vartiainen. 2002. Natal and neonatal teeth in relation to environmental toxicants. *Pediatr. Res.* 52(5):652-655.
- Alaluusua, S., P. Calderara, P.M. Gerthoux, P.L. Lukinmaa, O. Kovero, L. Needham, D.G. Patterson, Jr., J. Tuomisto and P. Mocarelli. 2004. Developmental dental aberrations after the dioxin accident in Seveso. *Environ. Health Perspect.* 112(13):1313-1318.
- Allen, D.E. and L.J. Leamy. 2001. 2,3,7,8-tetrachlorodibenzo-p-dioxin affects size and shape, but not asymmetry, of mandibles in mice. *Ecotoxicology.* 10(3):167-176.
- Alsharif, N.Z. and E.A. Hassoun. 2004. Protective effects of vitamin A and vitamin E succinate against 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-induced body wasting, hepatomegaly, thymic atrophy, production of reactive oxygen species and DNA damage in C57BL/6J mice. *Basic Clin. Pharmacol. Toxicol.* 95(3):131-138.

- Ambrus, J.L., A. Islam, S. Akhter, W. Dembinski, M. Kulaylat and C.M. Ambrus. 2004. Multiple medical problems following agent orange exposure. *J. Med.* 35(1-6):265-269.
- Amin, S., R.W. Moore, R.E. Peterson and S.L. Schantz. 2000. Gestational and lactational exposure to TCDD or coplanar PCBs alters adult expression of saccharin preference behavior in female rats. *Neurotoxicol. Teratol.* 22(5):675-682.
- Anger, D.L. and W.G. Foster. 2008. The link between environmental toxicant exposure and endometriosis. *Front Biosci.* 13:1578-1593.
- Aragon, A.C., M.B. Goens, E. Carbett and M.K. Walker. 2008a. Perinatal 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure sensitizes offspring to angiotensin II-induced hypertension. *Cardiovasc. Toxicol.* 8(3):145-154.
- Aragon, A.C., P.G. Kopf, M.J. Campen, J.K. Huwe and M.K. Walker. 2008b. In utero and lactational 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure: effects on fetal and adult cardiac gene expression and adult cardiac and renal morphology. *Toxicol. Sci.* 101(2):321-330.
- Arisawa, K., H. Takeda and H. Mikasa. 2005. Background exposure to PCDDs/PCDFs/PCBs and its potential health effects: a review of epidemiologic studies. *J. Med. Invest.* 52(1-2):10-21.
- Atallah, E. and C.A. Schiffer. 2007. Agent Orange, prostate cancer irradiation and acute promyelocytic leukemia (APL): is there a link? *Leuk. Res.* 31(5):720-721.
- Aulerich, R.J., B. Yamini and S.J. Bursian. 2001. Dietary exposure to 3,3',4,4',5-pentachlorobiphenyl (PCB 126) or 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) does not induce proliferation of squamous epithelium or osteolysis in the jaws of weanling rats. *Vet. Hum. Toxicol.* 43(3):170-171.
- Baccarelli, A., A.C. Pesatori, S.A. Masten, D.G. Patterson, Jr., L.L. Needham, P. Mocarelli, N.E. Caporaso, D. Consonni, J.A. Grassman, P.A. Bertazzi and M.T. Landi. 2004. Aryl-hydrocarbon receptor-dependent pathway and toxic effects of TCDD in humans: a population-based study in Seveso, Italy. *Toxicol. Lett.* 149(1-3):287-293.
- Baccarelli, A., A.C. Pesatori, D. Consonni, P. Mocarelli, D.G. Patterson, Jr., N.E. Caporaso, P.A. Bertazzi and M.T. Landi. 2005. Health status and plasma dioxin levels in chloracne cases 20 years after the Seveso, Italy accident. *Br. J. Dermatol.* 152(3):459-465.
- Baccarelli, A., C. Hirt, A.C. Pesatori, D. Consonni, D.G. Patterson, Jr., P.A. Bertazzi, G. Dolken and M.T. Landi. 2006. t(14;18) translocations in lymphocytes of healthy dioxin-exposed individuals from Seveso, Italy. *Carcinogenesis.* 27(10):2001-2007.
- Baccarelli, A., S.M. Giacomini, C. Corbetta, M.T. Landi, M. Bonzini, D. Consonni, P. Grillo, D.G. Patterson, A.C. Pesatori and P.A. Bertazzi. 2008. Neonatal thyroid function in Seveso 25 years after maternal exposure to dioxin. *PLoS. Med.* 5(7):e161.

Badawi, A.F., E.L. Cavalieri and E.G. Rogan. 2000. Effect of chlorinated hydrocarbons on expression of cytochrome P450 1A1, 1A2 and 1B1 and 2- and 4-hydroxylation of 17beta-estradiol in female Sprague-Dawley rats. *Carcinogenesis*. 21(8):1593-1599.

Bagchi, D., J. Balmoori, M. Bagchi, X. Ye, C.B. Williams and S.J. Stohs. 2002. Comparative effects of TCDD, endrin, naphthalene and chromium (VI) on oxidative stress and tissue damage in the liver and brain tissues of mice. *Toxicology*. 175(1-3):73-82.

Barrett, D.H., R.D. Morris, F.Z. Akhtar and J.E. Michalek. 2001. Serum dioxin and cognitive functioning among veterans of Operation Ranch Hand. *Neurotoxicology*. 22(4):491-502.

Bell, D.R., S. Clode, M.Q. Fan, A. Fernandes, P.M. Foster, T. Jiang, G. Loizou, A. MacNicoll, B.G. Miller, M. Rose, L. Tran and S. White. 2007a. Toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin in the developing male Wistar(Han) rat. I: No decrease in epididymal sperm count after a single acute dose. *Toxicol. Sci*. 99(1):214-223.

Bell, D.R., S. Clode, M.Q. Fan, A. Fernandes, P.M. Foster, T. Jiang, G. Loizou, A. MacNicoll, B.G. Miller, M. Rose, L. Tran and S. White. 2007b. Relationships between tissue levels of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD), mRNAs, and toxicity in the developing male Wistar(Han) rat. *Toxicol. Sci*. 99(2):591-604.

Bell, D.R., S. Clode, M.Q. Fan, A. Fernandes, P.M. Foster, T. Jiang, G. Loizou, A. MacNicoll, B.G. Miller, M. Rose, L. Tran and S. White. 2007c. Toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin in the developing male Wistar(Han) rat. II: Chronic dosing causes developmental delay. *Toxicol. Sci*. 99(1):224-233.

Bemis, J.C., N.F. Alejandro, D.A. Nazarenko, A.I. Brooks, R.B. Baggs and T.A. Gasiewicz. 2007. TCDD-induced alterations in gene expression profiles of the developing mouse paw do not influence morphological differentiation of this potential target tissue. *Toxicol. Sci*. 95(1):240-248.

Besteman, E.G., K.L. Zimmerman and S.D. Holladay. 2005. Tetrachlorodibenzo-p-Dioxin (TCDD) Inhibits Differentiation and Increases Apoptotic Cell Death of Precursor T-Cells in the Fetal Mouse Thymus. *J. Immunotoxicol*. 2(2):107-114.

Besteman, E.G., K.L. Zimmerman, W.R. Huckle, M.R. Prater, R.M. Gogal, Jr. and S.D. Holladay. 2007. 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) or diethylstilbestrol (DES) cause similar hematopoietic hypocellularity and hepatocellular changes in murine fetal liver, but differentially affect gene expression. *Toxicol. Pathol*. 35(6):788-794.

Birnbaum, L.S. and J. Tuomisto. 2000. Non-carcinogenic effects of TCDD in animals. *Food Addit. Contam*. 17(4):275-288.

- Birnbaum, L.S. and S.E. Fenton. 2003. Cancer and developmental exposure to endocrine disruptors. *Environ. Health Perspect.* 111(4):389-394.
- Blond, B. 2000. [Risks of dioxins on health are still poorly evaluated]. *Soins. Pediatr. Pueric.*(197):10.
- Boas, M., U. Feldt-Rasmussen, N.E. Skakkebaek and K.M. Main. 2006. Environmental chemicals and thyroid function. *Eur. J. Endocrinol.* 154(5):599-611.
- Boersma, E.R. and C.I. Lanting. 2000. Environmental exposure to polychlorinated biphenyls (PCBs) and dioxins. Consequences for longterm neurological and cognitive development of the child lactation. *Adv. Exp. Med. Biol.* 478:271-287.
- Boffetta, P. 2006. Human cancer from environmental pollutants: the epidemiological evidence. *Mutat. Res.* 608(2):157-162.
- Bohn, A.A., K.S. Harrod, S. Teske and B.P. Lawrence. 2005. Increased mortality associated with TCDD exposure in mice infected with influenza A virus is not due to severity of lung injury or alterations in Clara cell protein content. *Chem. Biol. Interact.* 155(3):181-190.
- Bolt, H.M. and K. Golka. 2007. [Occupational cancer--burdens of the past or actual threat?]. *Dtsch. Med. Wochenschr.* 132(4):133-134.
- Boverhof, D.R., L.D. Burgoon, C. Tashiro, B. Chittim, J.R. Harkema, D.B. Jump and T.R. Zacharewski. 2005. Temporal and dose-dependent hepatic gene expression patterns in mice provide new insights into TCDD-Mediated hepatotoxicity. *Toxicol. Sci.* 85(2):1048-1063.
- Bowers, O.J., K.B. Sommersted, R.T. Sowell, G.E. Boling, W.H. Hanneman, R.G. Titus and G.K. Dekrey. 2006. 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) reduces *Leishmania major* burdens in C57BL/6 mice. *Am. J. Trop. Med. Hyg.* 75(4):749-752.
- Boyle, S.H., W.G. Jackson and E.C. Suarez. 2007. Hostility, anger, and depression predict increases in C3 over a 10-year period. *Brain Behav. Immun.* 21(6):816-823.
- Brody, J.G., K.B. Moysich, O. Humblet, K.R. Attfield, G.P. Beehler and R.A. Rudel. 2007. Environmental pollutants and breast cancer: epidemiologic studies. *Cancer.* 109(12 Suppl):2667-2711.
- Brouillette, J. and R. Quirion. 2008. The common environmental pollutant dioxin-induced memory deficits by altering estrogen pathways and a major route of retinol transport involving transthyretin. *Neurotoxicology.* 29(2):318-327.
- Bruner-Tran, K.L., G.R. Yeaman, M.A. Crispens, T.M. Igarashi and K.G. Osteen. 2008. Dioxin may promote inflammation-related development of endometriosis. *Fertil. Steril.* 89(5 Suppl):1287-1298.

- Brunnberg, S., P. Andersson, M. Lindstam, I. Paulson, L. Poellinger and A. Hanberg. 2006. The constitutively active Ah receptor (CA-Ahr) mouse as a potential model for dioxin exposure--effects in vital organs. *Toxicology*. 224(3):191-201.
- Buchanan, D.L., S. Ohsako, C. Tohyama, P.S. Cooke and T. Iguchi. 2002. Dioxin inhibition of estrogen-induced mouse uterine epithelial mitogenesis involves changes in cyclin and transforming growth factor-beta expression. *Toxicol. Sci.* 66(1):62-68.
- Butler, D. 2005. US abandons health study on Agent Orange. *Nature*. 434(7034):687.
- Byers, J.P., K. Masters, J.G. Sarver and E.A. Hassoun. 2006. Association between the levels of biogenic amines and superoxide anion production in brain regions of rats after subchronic exposure to TCDD. *Toxicology*. 228(2-3):291-298.
- Calkosinski, I., M. Dobrzynski, M. Cegielski, A. Sieja and M. Calkosinska. 2006. [The multifaceted effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in organisms, especially dentition changes]. *Postepy Hig. Med. Dosw. (Online.)*. 60:237-240.
- Calle, E.E., H. Frumkin, S.J. Henley, D.A. Savitz and M.J. Thun. 2002. Organochlorines and breast cancer risk. *CA Cancer J. Clin.* 52(5):301-309.
- Camacho, I.A., M.R. Hassuneh, M. Nagarkatti and P.S. Nagarkatti. 2001. Enhanced activation-induced cell death as a mechanism of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-induced immunotoxicity in peripheral T cells. *Toxicology*. 165(1):51-63.
- Camacho, I.A., M. Nagarkatti and P.S. Nagarkatti. 2004a. Evidence for induction of apoptosis in T cells from murine fetal thymus following perinatal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). *Toxicol. Sci.* 78(1):96-106.
- Camacho, I.A., M. Nagarkatti and P.S. Nagarkatti. 2004b. Effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) on maternal immune response during pregnancy. *Arch. Toxicol.* 78(5):290-300.
- Cao, Y., G. Winneke, M. Wilhelm, J. Wittsiepe, F. Lemm, P. Furst, U. Ranft, M. Imohl, M. Kraft, B. Oesch-Bartlomowicz and U. Kramer. 2008. Environmental exposure to dioxins and polychlorinated biphenyls reduce levels of gonadal hormones in newborns: results from the Duisburg cohort study. *Int. J. Hyg. Environ. Health.* 211(1-2):30-39.
- Casey, B. 2005. Environmental contaminants and maternal thyroid function. *Am. J. Obstet. Gynecol.* 193(6):1889-1890.
- Chang, H., Y.J. Wang, L.W. Chang and P. Lin. 2005. A histochemical and pathological study on the interrelationship between TCDD-induced AhR expression, AhR activation, and hepatotoxicity in mice. *J. Toxicol. Environ. Health A.* 68(17-18):1567-1579.
- Chao, H.R., S.L. Wang, L.Y. Lin, W.J. Lee and O. Papke. 2007. Placental transfer of polychlorinated dibenzo-p-dioxins, dibenzofurans, and biphenyls in Taiwanese mothers in relation to menstrual cycle characteristics. *Food Chem. Toxicol.* 45(2):259-265.

- Charnley, G. and R.D. Kimbrough. 2006. Overview of exposure, toxicity, and risks to children from current levels of 2,3,7,8-tetrachlorodibenzo-p-dioxin and related compounds in the USA. *Food Chem. Toxicol.* 44(5):601-615.
- Chaudhuri, A. and M.D. Harris. 2003. 'Proximal-type' epithelioid sarcoma: is Agent Orange still at large? *Ann. R. Coll. Surg. Engl.* 85(6):410-412.
- Chen, J., L.S. Laughlin, A.G. Hendrickx, K. Natarajan, J.W. Overstreet and B.L. Lasley. 2003. The effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) on chorionic gonadotrophin activity in pregnant macaques. *Toxicology.* 186(1-2):21-31.
- Chen, H.L., H.J. Su, Y.J. Wang, Y.L. Guo, P.C. Liao and C.C. Lee. 2006a. Interactive effects between CYP1A1 genotypes and environmental polychlorinated dibenzo-p-dioxins and dibenzofurans exposures on liver function profile. *J. Toxicol. Environ. Health A.* 69(3-4):269-281.
- Chen, H.L., H.J. Su, Y.L. Guo, P.C. Liao, C.F. Hung and C.C. Lee. 2006b. Biochemistry examinations and health disorder evaluation of Taiwanese living near incinerators and with low serum PCDD/Fs levels. *Sci. Total Environ.* 366(2-3):538-548.
- Cheng, S.B., S. Kuchiiwa, I. Nagatomo, Y. Akasaki, M. Uchida, M. Tominaga, W. Hashiguchi, T. Kuchiiwa and S. Nakagawa. 2002. 2,3,7,8-Tetrachlorodibenzo-p-dioxin treatment induces c-Fos expression in the forebrain of the Long-Evans rat. *Brain Res.* 931(2):176-180.
- Cherniak, I., D.A. Grassman and A.A. Shelepchikov. 2005. [Markers of impact and effects of dioxines in firemen who participated in fire extinguishing at "Irkutskcabel" plant]. *Med. Tr. Prom Ekol.*(12):41-46.
- Cho, H.J., E.J. Hahn, J.A. Hwang, M.S. Hong, S.K. Kim, H.R. Pak and J.H. Park. 2006. Enhanced expression of plasma glutathione peroxidase in the thymus of mice treated with TCDD and its implication for TCDD-induced thymic atrophy. *Mol. Cells.* 21(2):276-283.
- Choi, S.S., M.A. Miller and P.A. Harper. 2006. In utero exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin induces amphiregulin gene expression in the developing mouse ureter. *Toxicol. Sci.* 94(1):163-174.
- Chu, I., P. Lecavalier, H. Hakansson, A. Yagminas, V.E. Valli, P. Poon and M. Feeley. 2001. Mixture effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin and polychlorinated biphenyl congeners in rats. *Chemosphere.* 43(4-7):807-814.
- Codier, S. and D. Bard. 2000. [Paternal exposure to dioxin and sex ratio in the offspring]. *Rev. Epidemiol. Sante Publique.* 48(6):590-591.
- Colborn, T. 2002. Impact of Endocrine Disruptors on Brain Development and Behaviour. Proceedings of a conference. 15-20 September 2001, Sicily, Italy. *Environ. Health Perspect.* 110 Suppl 3:335-449.

- Collins, J.J., R.A. Budinsky, C.J. Burns, L.L. Lamparski, M.L. Carson, G.D. Martin and M. Wilken. 2006. Serum dioxin levels in former chlorophenol workers. *J. Expo. Sci. Environ. Epidemiol.* 16(1):76-84.
- Collins, L.L., M.A. Williamson, B.D. Thompson, D.P. Dever, T.A. Gasiewicz and L.A. Opanashuk. 2008. 2,3,7,8-Tetrachlorodibenzo-p-dioxin exposure disrupts granule neuron precursor maturation in the developing mouse cerebellum. *Toxicol. Sci.* 103(1):125-136.
- Connor, K.T. and L.L. Aylward. 2006. Human response to dioxin: aryl hydrocarbon receptor (AhR) molecular structure, function, and dose-response data for enzyme induction indicate an impaired human AhR. *J. Toxicol. Environ. Health B Crit Rev.* 9(2):147-171.
- Consonni, D., A.C. Pesatori, C. Zocchetti, R. Sindaco, L.C. D'Oro, M. Rubagotti and P.A. Bertazzi. 2008. Mortality in a population exposed to dioxin after the Seveso, Italy, accident in 1976: 25 years of follow-up. *Am. J. Epidemiol.* 167(7):847-858.
- Cordier, S. 2008. Evidence for a role of paternal exposures in developmental toxicity. *Basic Clin. Pharmacol. Toxicol.* 102(2):176-181.
- Correa-Villasenor, A., J. Cragan, J. Kucik, L. O'Leary, C. Siffel and L. Williams. 2003. The Metropolitan Atlanta Congenital Defects Program: 35 years of birth defects surveillance at the Centers for Disease Control and Prevention. *Birth Defects Res. A Clin. Mol. Teratol.* 67(9):617-624.
- Cranmer, M., S. Louie, R.H. Kennedy, P.A. Kern and V.A. Fonseca. 2000. Exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) is associated with hyperinsulinemia and insulin resistance. *Toxicol. Sci.* 56(2):431-436.
- Crofton, K.M., E.S. Craft, J.M. Hedge, C. Gennings, J.E. Simmons, R.A. Carchman, W.H. Carter, Jr. and M.J. DeVito. 2005. Thyroid-hormone-disrupting chemicals: evidence for dose-dependent additivity or synergism. *Environ. Health Perspect.* 113(11):1549-1554.
- Crutch, C.R., M. Lebofsky, K.W. Schramm, P.F. Terranova and K.K. Rozman. 2005. 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) and 1,2,3,4,7,8-hexachlorodibenzo-p-dioxin (HxCDD) alter body weight by decreasing insulin-like growth factor I (IGF-I) signaling. *Toxicol. Sci.* 85(1):560-571.
- Dalton, T.P., J.K. Kerzee, B. Wang, M. Miller, M.Z. Dieter, J.N. Lorenz, H.G. Shertzer, D.W. Nerbert and A. Puga. 2001. Dioxin exposure is an environmental risk factor for ischemic heart disease. *Cardiovasc. Toxicol.* 1(4):285-298.
- Darras, V.M. 2008. Endocrine disrupting polyhalogenated organic pollutants interfere with thyroid hormone signalling in the developing brain. *Cerebellum.* 7(1):26-37.

Davies, R., B. Clothier, S.W. Robinson, R.E. Edwards, P. Greaves, J. Luo, T.W. Gant, T. Chernova and A.G. Smith. 2008. Essential role of the AH receptor in the dysfunction of heme metabolism induced by 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Chem. Res. Toxicol.* 21(2):330-340.

Davis, B.J., E.A. Mccurdy, B.D. Miller, G.W. Lucier and A.M. Tritscher. 2000. Ovarian tumors in rats induced by chronic 2,3,7,8-tetrachlorodibenzo-p-dioxin treatment. *Cancer Res.* 60(19):5414-5419.

De Roos, A.J., P. Hartge, J.H. Lubin, J.S. Colt, S. Davis, J.R. Cerhan, R.K. Severson, W. Cozen, D.G. Patterson, Jr., L.L. Needham and N. Rothman. 2005. Persistent organochlorine chemicals in plasma and risk of non-Hodgkin's lymphoma. *Cancer Res.* 65(23):11214-11226.

Dearstyne, E.A. and N.I. Kerkvliet. 2002. Mechanism of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-induced decrease in anti-CD3-activated CD4(+) T cells: the roles of apoptosis, Fas, and TNF. *Toxicology.* 170(1-2):139-151.

Debacker, N., A. Sasse, N. van Wouwe, L. Goeyens, F. Sartor and O.H. van. 2007. PCDD/F levels in plasma of a belgian population before and after the 1999 belgian PCB/DIOXIN incident. *Chemosphere.* 67(9):S217-S223.

Derkenne, S., C.P. Curran, H.G. Shertzer, T.P. Dalton, N. Dragin and D.W. Nebert. 2005. Theophylline pharmacokinetics: comparison of Cyp1a1(-/-) and Cyp1a2(-/-) knockout mice, humanized hCYP1A1\_1A2 knock-in mice lacking either the mouse Cyp1a1 or Cyp1a2 gene, and Cyp1(+/+) wild-type mice. *Pharmacogenet. Genomics.* 15(7):503-511.

Desaulniers, D., K. Leingartner, J. Russo, G. Perkins, B.G. Chittim, M.C. Archer, M. Wade and J. Yang. 2001. Modulatory effects of neonatal exposure to TCDD, or a mixture of PCBs, p,p'-DDT, and p-p'-DDE, on methylnitrosourea-induced mammary tumor development in the rat. *Environ. Health Perspect.* 109(7):739-747.

Dhulipala, V.C., W.V. Welshons and C.S. Reddy. 2006. Cell cycle proteins in normal and chemically induced abnormal secondary palate development: a review. *Hum. Exp. Toxicol.* 25(11):675-682.

Dietert, R.R. 2008. Developmental Immunotoxicology: Focus on Health Risks. *Chem. Res. Toxicol.*

Donato, F. and M. Magoni. 2005. [Answers to Panizza e Ricci about Brescia]. *Epidemiol. Prev.* 29(5-6):233-236.

Dong, L. and N.J. Tang. 2005. [Liver toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin.]. *Zhonghua Lao. Dong. Wei Sheng Zhi. Ye. Bing. Za Zhi.* 23(1):60-62.



Dragan, Y.P. and D. Schrenk. 2000. Animal studies addressing the carcinogenicity of TCDD (or related compounds) with an emphasis on tumour promotion. *Food Addit. Contam.* 17(4):289-302.

Dragin, N., T.P. Dalton, M.L. Miller, H.G. Shertzer and D.W. Nebert. 2006. For dioxin-induced birth defects, mouse or human CYP1A2 in maternal liver protects whereas mouse CYP1A1 and CYP1B1 are inconsequential. *J. Biol. Chem.* 281(27):18591-18600.

Dunlap, D.Y. and F. Matsumura. 2000. Analysis of difference in vivo effects of TCDD between c-src +/- mice, c-src deficient, +/- and -/- B6, 129-Src(tm 1 sor) mice and their wild-type littermates. *Chemosphere.* 40(9-11):1241-1246.

Dunlap, D.Y., I. Ikeda, H. Nagashima, C.F. Vogel and F. Matsumura. 2002. Effects of src-deficiency on the expression of in vivo toxicity of TCDD in a strain of c-src knockout mice procured through six generations of backcrossings to C57BL/6 mice. *Toxicology.* 172(2):125-141.

Eckle, V.S., A. Buchmann, W. Bursch, R. Schulte-Hermann and M. Schwarz. 2004. Immunohistochemical detection of activated caspases in apoptotic hepatocytes in rat liver. *Toxicol. Pathol.* 32(1):9-15.

Emi, Y., S. Ikushiro and Y. Kato. 2007. Thyroxine-metabolizing rat uridine diphosphate-glucuronosyltransferase 1A7 is regulated by thyroid hormone receptor. *Endocrinology.* 148(12):6124-6133.

Eskenazi, B., P. Mocarelli, M. Warner, W.Y. Chee, P.M. Gerthoux, S. Samuels, L.L. Needham and D.G. Patterson, Jr. 2003. Maternal serum dioxin levels and birth outcomes in women of Seveso, Italy. *Environ. Health Perspect.* 111(7):947-953.

Eskenazi, B., M. Warner, S. Samuels, J. Young, P.M. Gerthoux, L. Needham, D. Patterson, D. Olive, N. Gavoni, P. Vercellini and P. Mocarelli. 2007. Serum dioxin concentrations and risk of uterine leiomyoma in the Seveso Women's Health Study. *Am. J. Epidemiol.* 166(1):79-87.

Esser, C., S. Steinwachs, C. Herder, M. Majora and Z.W. Lai. 2005. Effects of a single dose of 2,3,7,8-tetrachlorodibenzo-p-dioxin, given at post-puberty, in senescent mice. *Toxicol. Lett.* 157(2):89-98.

Fattore, E., C. Trossvik and H. Hakansson. 2000. Relative potency values derived from hepatic vitamin A reduction in male and female Sprague-Dawley rats following subchronic dietary exposure to individual polychlorinated dibenzo-p-dioxin and dibenzofuran congeners and a mixture thereof. *Toxicol. Appl. Pharmacol.* 165(3):184-194.

Fetissov, S.O., P. Huang, Q. Zhang, J. Mimura, Y. Fujii-Kuriyama, A. Rannug, T. Hokfelt and S. Ceccatelli. 2004. Expression of hypothalamic neuropeptides after acute TCDD treatment and distribution of Ah receptor repressor. *Regul. Pept.* 119(1-2):113-124.

- Figa-Talamanca, I., M. Tarquini and L. Lauria. 2003. [Is it possible to use sex ratio at birth as indicator of the presence of endocrine disrupters in environmental pollution?]. *G. Ital. Med. Lav. Ergon.* 25 Suppl(3):52-53.
- Finkelstein, A., E. Rotman, A. Eisenkraft, A. Krivoy, I. Laish, Z. Tashma, A. Hoffman and Y. Yehezkelli. 2005. [Political poisoning with dioxins--a weapon of chemical "disgracefulness"]. *Harefuah.* 144(10):729-35, 749.
- Fisher, M.T., M. Nagarkatti and P.S. Nagarkatti. 2005. 2,3,7,8-tetrachlorodibenzo-p-dioxin enhances negative selection of T cells in the thymus but allows autoreactive T cells to escape deletion and migrate to the periphery. *Mol. Pharmacol.* 67(1):327-335.
- Fletcher, N., A. Hanberg and H. Hakansson. 2001. Hepatic vitamin a depletion is a sensitive marker of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) exposure in four rodent species. *Toxicol. Sci.* 62(1):166-175.
- Fletcher, N., N. Giese, C. Schmidt, N. Stern, P.M. Lind, M. Viluksela, J.T. Tuomisto, J. Tuomisto, H. Nau and H. Hakansson. 2005. Altered retinoid metabolism in female Long-Evans and Han/Wistar rats following long-term 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-treatment. *Toxicol. Sci.* 86(2):264-272.
- Forawi, H.A., P.B. Tchounwou and R.W. McMurray. 2004. Xenoestrogen modulation of the immune system: effects of dichlorodiphenyltrichloroethane (DDT) and 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). *Rev. Environ. Health.* 19(1):1-13.
- Foster, W.G. 2008. Endocrine toxicants including 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) and dioxin-like chemicals and endometriosis: is there a link? *J. Toxicol. Environ. Health B Crit Rev.* 11(3-4):177-187.
- Franczak, A., A. Nynca, K.E. Valdez, K.M. Mizinga and B.K. Petroff. 2006. Effects of acute and chronic exposure to the aryl hydrocarbon receptor agonist 2,3,7,8-tetrachlorodibenzo-p-dioxin on the transition to reproductive senescence in female Sprague-Dawley rats. *Biol. Reprod.* 74(1):125-130.
- Frericks, M., V.V. Temchura, M. Majora, S. Stutte and C. Esser. 2006. Transcriptional signatures of immune cells in aryl hydrocarbon receptor (AHR)-proficient and AHR-deficient mice. *Biol. Chem.* 387(9):1219-1226.
- Fritz, W.A., T.M. Lin, R.W. Moore, P.S. Cooke and R.E. Peterson. 2005. In utero and lactational 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure: effects on the prostate and its response to castration in senescent C57BL/6J mice. *Toxicol. Sci.* 86(2):387-395.
- Froehner, M. and M.P. Wirth. 2001. Etiologic factors in soft tissue sarcomas. *Onkologie.* 24(2):139-142.
- Frumkin, H. 2003. Agent Orange and cancer: an overview for clinicians. *CA Cancer J. Clin.* 53(4):245-255.

- Fujimaki, H., K. Nohara, T. Kobayashi, K. Suzuki, K. Eguchi-Kasai, S. Tsukumo, M. Kijima and C. Tohyama. 2002. Effect of a single oral dose of 2,3,7,8-tetrachlorodibenzo-p-dioxin on immune function in male NC/Nga mice. *Toxicol. Sci.* 66(1):117-124.
- Fujiwara, K., T. Yamada, K. Mishima, H. Imura and T. Sugahara. 2008. Morphological and immunohistochemical studies on cleft palates induced by 2,3,7,8-tetrachlorodibenzo-p-dioxin in mice. *Congenit. Anom. (Kyoto)*. 48(2):68-73.
- Fujiyoshi, P.T., J.E. Michalek and F. Matsumura. 2006. Molecular epidemiologic evidence for diabetogenic effects of dioxin exposure in U.S. Air force veterans of the Vietnam war. *Environ. Health Perspect.* 114(11):1677-1683.
- Funatake, C.J., E.A. Dearstyne, L.B. Steppan, D.M. Shepherd, E.S. Spanjaard, A. Marshak-Rothstein and N.I. Kerkvliet. 2004. Early consequences of 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure on the activation and survival of antigen-specific T cells. *Toxicol. Sci.* 82(1):129-142.
- Funatake, C.J., N.B. Marshall, L.B. Steppan, D.V. Mourich and N.I. Kerkvliet. 2005. Cutting edge: activation of the aryl hydrocarbon receptor by 2,3,7,8-tetrachlorodibenzo-p-dioxin generates a population of CD4+ CD25+ cells with characteristics of regulatory T cells. *J. Immunol.* 175(7):4184-4188.
- Funseth, E., A. Wicklund-Glynn, G. Friman and N. Ilback. 2000. Redistribution of accumulated 2,3,7,8-tetrachlorodibenzo-p-dioxin during coxsackievirus B3 infection in the mouse. *Toxicol. Lett.* 116(1-2):131-141.
- Funseth, E., L. Wesslen, U. Lindh, G. Friman and N.G. Ilback. 2002. Effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin on trace elements, inflammation and viral clearance in the myocardium during coxsackievirus B3 infection in mice. *Sci. Total Environ.* 284(1-3):135-147.
- Galijatovic, A., D. Beaton, N. Nguyen, S. Chen, J. Bonzo, R. Johnson, S. Maeda, M. Karin, F.P. Guengerich and R.H. Tukey. 2004. The human CYP1A1 gene is regulated in a developmental and tissue-specific fashion in transgenic mice. *J. Biol. Chem.* 279(23):23969-23976.
- Gao, X., B.K. Petroff, K.K. Rozman and P.F. Terranova. 2000. Gonadotropin-releasing hormone (GnRH) partially reverses the inhibitory effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin on ovulation in the immature gonadotropin-treated rat. *Toxicology.* 147(1):15-22.
- Gao, X., K. Mizuyachi, P.F. Terranova and K.K. Rozman. 2001. 2,3,7,8-tetrachlorodibenzo-p-dioxin decreases responsiveness of the hypothalamus to estradiol as a feedback inducer of preovulatory gonadotropin secretion in the immature gonadotropin-primed rat. *Toxicol. Appl. Pharmacol.* 170(3):181-190.

Gao, Y., C. Sahlberg, A. Kiukkonen, S. Alaluusua, R. Pohjanvirta, J. Tuomisto and P.L. Lukinmaa. 2004. Lactational exposure of Han/Wistar rats to 2,3,7,8-tetrachlorodibenzo-p-dioxin interferes with enamel maturation and retards dentin mineralization. *J. Dent. Res.* 83(2):139-144.

Garrett, R.W. and T.A. Gasiewicz. 2006. The aryl hydrocarbon receptor agonist 2,3,7,8-tetrachlorodibenzo-p-dioxin alters the circadian rhythms, quiescence, and expression of clock genes in murine hematopoietic stem and progenitor cells. *Mol. Pharmacol.* 69(6):2076-2083.

Gaudry, J. and K. Skiehar. 2007. Promoting environmentally responsible health care. *Can. Nurse.* 103(1):22-26.

Geng, G.H., L. Dong, B.H. Du, C.M. Zhang, S.W. Ma, N.J. Tang, W. Han, P. Zhang and P.J. Coenraads. 2006. [Effect of occupationally exposed to dioxin on serum oxidative stress indices in male workers]. *Zhonghua Lao. Dong. Wei Sheng Zhi. Ye. Bing. Za Zhi.* 24(7):419-422.

Geng, H.O., J.C. Zhang, B. Hu and J.B. Wang. 2008. [Effects of lactational dioxin exposure to development of alveolar bone in SD rat offspring]. *Zhonghua Kou Qiang. Yi. Xue. Za Zhi.* 43(5):278-280.

Genter, M.B., C.D. Clay, T.P. Dalton, H. Dong, D.W. Nebert and H.G. Shertzer. 2006. Comparison of mouse hepatic mitochondrial versus microsomal cytochromes P450 following TCDD treatment. *Biochem. Biophys. Res. Commun.* 342(4):1375-1381.

Geusau, A., W. Jurecka, H. Nahavandi, J.B. Schmidt, G. Stingl and E. Tschachler. 2000. Punctate keratoderma-like lesions on the palms and soles in a patient with chloracne: a new clinical manifestation of dioxin intoxication? *Br. J. Dermatol.* 143(5):1067-1071.

Geusau, A., K. Abraham, K. Geissler, M.O. Sator, G. Stingl and E. Tschachler. 2001. Severe 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) intoxication: clinical and laboratory effects. *Environ. Health Perspect.* 109(8):865-869.

Geusau, A., M. Khorchide, M. Mildner, J. Pammer, L. Eckhart and E. Tschachler. 2005. 2,3,7,8-tetrachlorodibenzo-p-dioxin impairs differentiation of normal human epidermal keratinocytes in a skin equivalent model. *J. Invest Dermatol.* 124(1):275-277.

Giacomini, S.M., L. Hou, P.A. Bertazzi and A. Baccarelli. 2006. Dioxin effects on neonatal and infant thyroid function: routes of perinatal exposure, mechanisms of action and evidence from epidemiology studies. *Int. Arch. Occup. Environ. Health.* 79(5):396-404.

Giri, V.N., A.E. Cassidy, J. Beebe-Dimmer, L.R. Ellis, D.C. Smith, C.H. Bock and K.A. Cooney. 2004. Association between Agent Orange and prostate cancer: a pilot case-control study. *Urology.* 63(4):757-760.

- Glover, R.E., D.R. Germolec, R. Patterson, N.J. Walker, G.W. Lucier and R.P. Mason. 2000. Endotoxin (lipopolysaccharide)-induced nitric oxide production in 2,3,7,8-tetrachlorodibenzo-p-dioxin-treated Fischer rats: detection of nitrosyl hemoproteins by EPR spectroscopy. *Chem. Res. Toxicol.* 13(10):1051-1055.
- Guo, L., Y.Y. Zhao, Y.Y. Zhao, Z.J. Sun, H. Liu and S.L. Zhang. 2007. Toxic effects of TCDD on osteogenesis through altering IGFBP-6 gene expression in osteoblasts. *Biol. Pharm. Bull.* 30(11):2018-2026.
- Gupta, A., N. Ketchum, C.G. Roehrborn, A. Schecter, C.C. Aragaki and J.E. Michalek. 2006a. Serum dioxin, testosterone, and subsequent risk of benign prostatic hyperplasia: a prospective cohort study of Air Force veterans. *Environ. Health Perspect.* 114(11):1649-1654.
- Gupta, A., A. Schecter, C.C. Aragaki and C.G. Roehrborn. 2006b. Dioxin exposure and benign prostatic hyperplasia. *J. Occup. Environ. Med.* 48(7):708-714.
- Guzman, C. and E. Zambrano. 2007. [Endocrine disruptor compounds and their role in the developmental programming of the reproductive axis]. *Rev. Invest Clin.* 59(1):73-81.
- Ha, M.H., D.H. Lee and D.R. Jacobs. 2007. Association between serum concentrations of persistent organic pollutants and self-reported cardiovascular disease prevalence: results from the National Health and Nutrition Examination Survey, 1999-2002. *Environ. Health Perspect.* 115(8):1204-1209.
- Ha, M.H., D.H. Lee, H.K. Son, S.K. Park and D.R. Jacobs, Jr. 2008. Association between serum concentrations of persistent organic pollutants and prevalence of newly diagnosed hypertension: results from the National Health and Nutrition Examination Survey 1999-2002. *J. Hum. Hypertens.*
- Haavisto, T., K. Nurmela, R. Pohjanvirta, H. Huuskonen, F. El-Gehani and J. Paranko. 2001. Prenatal testosterone and luteinizing hormone levels in male rats exposed during pregnancy to 2,3,7,8-tetrachlorodibenzo-p-dioxin and diethylstilbestrol. *Mol. Cell Endocrinol.* 178(1-2):169-179.
- Haavisto, T.E., S.A. Myllymaki, N.A. Adamsson, L.J. Brokken, M. Viluksela, J. Toppari and J. Paranko. 2006. The effects of maternal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin on testicular steroidogenesis in infantile male rats. *Int. J. Androl.* 29(2):313-322.
- Hailey, J.R., N.J. Walker, D.M. Sells, A.E. Brix, M.P. Jokinen and A. Nyska. 2005. Classification of proliferative hepatocellular lesions in harlan sprague-dawley rats chronically exposed to dioxin-like compounds. *Toxicol. Pathol.* 33(1):165-174.
- Handler, S. 2006. Story short on science. *Minn. Med.* 89(4):6-7.

- Hardell, L. and M. Eriksson. 2003. Is the decline of the increasing incidence of non-Hodgkin lymphoma in Sweden and other countries a result of cancer preventive measures? *Environ. Health Perspect.* 111(14):1704-1706.
- Hardell, L., G. Lindstrom, B. van Bavel, K. Hardell, A. Linde, M. Carlberg and G. Liljegren. 2001. Adipose tissue concentrations of dioxins and dibenzofurans, titers of antibodies to Epstein-Barr virus early antigen and the risk for non-Hodgkin lymphoma. *Environ. Res.* 87(2):99-107.
- Hassoun, E.A., F. Li, A. Abushaban and S.J. Stohs. 2000. The relative abilities of TCDD and its congeners to induce oxidative stress in the hepatic and brain tissues of rats after subchronic exposure. *Toxicology.* 145(2-3):103-113.
- Hassoun, E.A., H. Wang, A. Abushaban and S.J. Stohs. 2002. Induction of oxidative stress in the tissues of rats after chronic exposure to TCDD, 2,3,4,7,8-pentachlorodibenzofuran, and 3,3',4,4',5-pentachlorobiphenyl. *J. Toxicol. Environ. Health A.* 65(12):825-842.
- Hassoun, E.A., M. Al-Ghafri and A. Abushaban. 2003. The role of antioxidant enzymes in TCDD-induced oxidative stress in various brain regions of rats after subchronic exposure. *Free Radic. Biol. Med.* 35(9):1028-1036.
- Hassoun, E.A., J. Vodhanel and A. Abushaban. 2004. The modulatory effects of ellagic acid and vitamin E succinate on TCDD-induced oxidative stress in different brain regions of rats after subchronic exposure. *J. Biochem. Mol. Toxicol.* 18(4):196-203.
- Henry, E.C., J.C. Bemis, O. Henry, A.S. Kende and T.A. Gasiewicz. 2006. A potential endogenous ligand for the aryl hydrocarbon receptor has potent agonist activity in vitro and in vivo. *Arch. Biochem. Biophys.* 450(1):67-77.
- Hermsen, S.A., S. Larsson, A. Arima, A. Muneoka, T. Ihara, H. Sumida, T. Fukusato, S. Kubota, M. Yasuda and P.M. Lind. 8 A.D. In utero and lactational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) affects bone tissue in rhesus monkeys. *Toxicology.* 253(1-3):147-152.
- Hirose, A. and M. Ema. 2004. [Recent TDI derivation of dioxin based on the reproductive and developmental toxicity]. *Kokuritsu Iyakuhiin Shokuhin Eisei Kenkyusho Hokoku*(122):56-61.
- Hochstein, M.S., Jr., J.A. Render, S.J. Bursian and R.J. Aulerich. 2001. Chronic toxicity of dietary 2,3,7,8-tetrachlorodibenzo-p-dioxin to mink. *Vet. Hum. Toxicol.* 43(3):134-139.
- Hoegberg, P., C.K. Schmidt, N. Fletcher, C.B. Nilsson, C. Trossvik, A. Gerlienke Schuur, A. Brouwer, H. Nau, N.B. Ghyselinck, P. Chambon and H. Hakansson. 2005. Retinoid status and responsiveness to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in mice lacking retinoid binding protein or retinoid receptor forms. *Chem. Biol. Interact.* 156(1):25-39.

- Hofer, T., R. Pohjanvirta, P. Spielmann, M. Viluksela, D.P. Buchmann, R.H. Wenger and M. Gassmann. 2004. Simultaneous exposure of rats to dioxin and carbon monoxide reduces the xenobiotic but not the hypoxic response. *Biol. Chem.* 385(3-4):291-294.
- Hogaboam, J.P., A.J. Moore and B.P. Lawrence. 2008. The aryl hydrocarbon receptor affects distinct tissue compartments during ontogeny of the immune system. *Toxicol. Sci.* 102(1):160-170.
- Hojo, R., G. Zareba, J.W. Kai, R.B. Baggs and B. Weiss. 2006. Sex-specific alterations of cerebral cortical cell size in rats exposed prenatally to dioxin. *J. Appl. Toxicol.* 26(1):25-34.
- Holladay, S.D., L.V. Sharova, K. Punareewattana, T.C. Hrubec, R.M. Gogal, Jr., M.R. Prater and A.A. Sharov. 2002. Maternal immune stimulation in mice decreases fetal malformations caused by teratogens. *Int. Immunopharmacol.* 2(2-3):325-332.
- Hombach-Klonisch, S., P. Pocar, S. Kietz and T. Klonisch. 2005. Molecular actions of polyhalogenated arylhydrocarbons (PAHs) in female reproduction. *Curr. Med. Chem.* 12(5):599-616.
- Hood, D.B., L. Woods, L. Brown, S. Johnson and F.F. Ebner. 2006. Gestational 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure effects on sensory cortex function. *Neurotoxicology.* 27(6):1032-1042.
- Hu, S.W., T.J. Cheng, G.P. ChangChien and C.C. Chan. 2003. Association between dioxins/furans exposures and incinerator workers' hepatic function and blood lipids. *J. Occup. Environ. Med.* 45(6):601-608.
- Hung, Y.C., G.S. Huang, V.M. Sava, V.A. Blagodarsky and M.Y. Hong. 2006. Protective effects of tea melanin against 2,3,7,8-tetrachlorodibenzo-p-dioxin-induced toxicity: antioxidant activity and aryl hydrocarbon receptor suppressive effect. *Biol. Pharm. Bull.* 29(11):2284-2291.
- Hurst, C.H., B. Abbott, J.E. Schmid and L.S. Birnbaum. 2002. 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) disrupts early morphogenetic events that form the lower reproductive tract in female rat fetuses. *Toxicol. Sci.* 65(1):87-98.
- Hutt, K.J., Z. Shi, D.F. Albertini and B.K. Petroff. 2008. The environmental toxicant 2,3,7,8-tetrachlorodibenzo-p-dioxin disrupts morphogenesis of the rat pre-implantation embryo. *BMC. Dev. Biol.* 8:1.
- Hwang, S.Y., W.J. Kim, J.J. Wee, J.S. Choi and S.K. Kim. 2004. Panax ginseng improves survival and sperm quality in guinea pigs exposed to 2,3,7,8-tetrachlorodibenzo- p-dioxin. *BJU. Int.* 94(4):663-668.

Iba, M.M., J. Fung, K.R. Cooper, P.E. Thomas, G.C. Wagner and Y. Park. 2000. Effect of gestational and lactational 2,3,7, 8-tetrachlorodibenzo-p-dioxin exposure on the level and catalytic activities of hepatic microsomal CYP1A in prepubertal and adult rats. *Biochem. Pharmacol.* 59(9):1147-1154.

Ikeda, M., T. Mitsui, K. Setani, M. Tamura, M. Kakeyama, H. Sone, C. Tohyama and T. Tomita. 2005a. In utero and lactational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin in rats disrupts brain sexual differentiation. *Toxicol. Appl. Pharmacol.* 205(1):98-105.

Ikeda, M., M. Tamura, J. Yamashita, C. Suzuki and T. Tomita. 2005b. Repeated in utero and lactational 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure affects male gonads in offspring, leading to sex ratio changes in F2 progeny. *Toxicol. Appl. Pharmacol.* 206(3):351-355.

Ingel, F., V. Platonova and L. Katosova. 2001. Human emotional stress, dioxin blood content and genetic damage in Chapaevsk town. *Chemosphere.* 43(4-7):989-998.

Inouye, K., X. Pan, N. Imai, T. Ito, T. Takei, C. Tohyama and K. Nohara. 2005. T cell-derived IL-5 production is a sensitive target of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). *Chemosphere.* 60(7):907-913.

Ishida, T., S. Kan-o, J. Mutoh, S. Takeda, Y. Ishii, I. Hashiguchi, A. Akamine and H. Yamada. 2005. 2,3,7,8-Tetrachlorodibenzo-p-dioxin-induced change in intestinal function and pathology: evidence for the involvement of arylhydrocarbon receptor-mediated alteration of glucose transportation. *Toxicol. Appl. Pharmacol.* 205(1):89-97.

Ishihara, K., K. Warita, T. Tanida, T. Sugawara, H. Kitagawa and N. Hoshi. 2007. Does paternal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) affect the sex ratio of offspring? *J. Vet. Med. Sci.* 69(4):347-352.

Ishimura, R., S. Ohsako, Y. Miyabara, M. Sakaue, T. Kawakami, Y. Aoki, J. Yonemoto and C. Tohyama. 2002. Increased glycogen content and glucose transporter 3 mRNA level in the placenta of Holtzman rats after exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicol. Appl. Pharmacol.* 178(3):161-171.

Ishimura, R., T. Kawakami, S. Ohsako, K. Nohara and C. Tohyama. 2006. Suppressive effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin on vascular remodeling that takes place in the normal labyrinth zone of rat placenta during late gestation. *Toxicol. Sci.* 91(1):265-274.

Ishizuka, M., J. Yonemoto, H. Zaha, C. Tohyama and H. Sone. 2003. Perinatal exposure to low doses of 2,3,7,8-tetrachlorodibenzo-p-dioxin alters sex-dependent expression of hepatic CYP2C11. *J. Biochem. Mol. Toxicol.* 17(5):278-285.

Ito, T., K. Inouye, H. Fujimaki, C. Tohyama and K. Nohara. 2002. Mechanism of TCDD-induced suppression of antibody production: effect on T cell-derived cytokine production in the primary immune reaction of mice. *Toxicol. Sci.* 70(1):46-54.



- Ito, T., K. Inouye, K. Nohara, C. Tohyama and H. Fujimaki. 2008. TCDD exposure exacerbates atopic dermatitis-related inflammation in NC/Nga mice. *Toxicol. Lett.* 177(1):31-37.
- James, W.H. 2001. Sex ratios at birth as monitors of endocrine disruption. *Environ. Health Perspect.* 109(6):A250-A251.
- James, W.H. 2002. Parental exposure to dioxin and offspring sex ratios. *Environ. Health Perspect.* 110(9):A502.
- Jamsa, T., M. Viluksela, J.T. Tuomisto, J. Tuomisto and J. Tuukkanen. 2001. Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin on bone in two rat strains with different aryl hydrocarbon receptor structures. *J. Bone Miner. Res.* 16(10):1812-1820.
- Jang, J.Y., S. Shin, B.I. Choi, D. Park, J.H. Jeon, S.Y. Hwang, J.C. Kim, Y.B. Kim and S.S. Nahm. 2007. Antiteratogenic effects of alpha-naphthoflavone on 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) exposed mice in utero. *Reprod. Toxicol.* 24(3-4):303-309.
- Jang, J.Y., D. Park, S. Shin, J.H. Jeon, B.I. Choi, S.S. Joo, S.Y. Hwang, S.S. Nahm and Y.B. Kim. 2008. Antiteratogenic effect of resveratrol in mice exposed in utero to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Eur. J. Pharmacol.* 591(1-3):280-283.
- Jao-Tan, C. and E. Pope. 2006. Cutaneous poisoning syndromes in children: a review. *Curr. Opin. Pediatr.* 18(4):410-416.
- Jenkins, S., C. Rowell, J. Wang and C.A. Lamartiniere. 2007. Prenatal TCDD exposure predisposes for mammary cancer in rats. *Reprod. Toxicol.* 23(3):391-396.
- Jeong, Y.C., N.J. Walker, D.E. Burgin, G. Kissling, M. Gupta, L. Kupper, L.S. Birnbaum and J.A. Swenberg. 2008. Accumulation of M1dG DNA adducts after chronic exposure to PCBs, but not from acute exposure to polychlorinated aromatic hydrocarbons. *Free Radic. Biol. Med.* 45(5):585-591.
- Jin, M.H., C.H. Hong, H.Y. Lee, H.J. Kang and S.W. Han. 2008a. Enhanced TGF-beta1 is involved in 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) induced oxidative stress in C57BL/6 mouse testis. *Toxicol. Lett.* 178(3):202-209.
- Jin, M.H., H.K. Ko, C.H. Hong and S.W. Han. 2008b. In Utero Exposure to 2,3,7,8-Tetrachlorodibenzo-p-Dioxin Affects the Development of Reproductive System in Mouse. *Yonsei Med. J.* 49(5):843-850.
- Jokinen, M.P., N.J. Walker, A.E. Brix, D.M. Sells, J.K. Haseman and A. Nyska. 2003. Increase in cardiovascular pathology in female Sprague-Dawley rats following chronic treatment with 2,3,7,8-tetrachlorodibenzo-p-dioxin and 3,3',4,4',5-pentachlorobiphenyl. *Cardiovasc. Toxicol.* 3(4):299-310.

- Jongbloet, P.H., N. Roeleveld and H.M. Groenewoud. 2002. Where the boys aren't: dioxin and the sex ratio. *Environ. Health Perspect.* 110(1):1-3.
- Kaiser, J. 2000. Toxicology. Just how bad is dioxin? *Science.* 288(5473):1941-1944.
- Takeyama, M. and C. Tohyama. 2003. Developmental neurotoxicity of dioxin and its related compounds. *Ind. Health.* 41(3):215-230.
- Takeyama, M., H. Sone and C. Tohyama. 2001. Changes in expression of NMDA receptor subunit mRNA by perinatal exposure to dioxin. *Neuroreport.* 12(18):4009-4012.
- Takeyama, M., H. Sone, Y. Miyabara and C. Tohyama. 2003. Perinatal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin alters activity-dependent expression of BDNF mRNA in the neocortex and male rat sexual behavior in adulthood. *Neurotoxicology.* 24(2):207-217.
- Takeyama, M., H. Sone and C. Tohyama. 2008. Perinatal exposure of female rats to 2,3,7,8-tetrachlorodibenzo-p-dioxin induces central precocious puberty in the offspring. *J. Endocrinol.* 197(2):351-358.
- Kaneko, H., E. Matsui, S. Shinoda, N. Kawamoto, Y. Nakamura, R. Uehara, N. Matsuura, M. Morita, H. Tada and N. Kondo. 2006. Effects of dioxins on the quantitative levels of immune components in infants. *Toxicol. Ind. Health.* 22(3):131-136.
- Kang, H.K., N.A. Dalager, L.L. Needham, D.G. Patterson, Jr., P.S. Lees, K. Yates and G.M. Matanoski. 2006. Health status of Army Chemical Corps Vietnam veterans who sprayed defoliant in Vietnam. *Am. J. Ind. Med.* 49(11):875-884.
- Katsnel'son, B.A., A.A. Koseleva, S.V. Kuz'min and L.I. Privalova. 2002. [Dioxins: facts and conjectures]. *Vestn. Ross. Akad. Med. Nauk(9):29-34.*
- Kattainen, H., J. Tuukkanen, U. Simanainen, J.T. Tuomisto, O. Kovero, P.L. Lukinmaa, S. Alaluusua, J. Tuomisto and M. Viluksela. 2001. In utero/lactational 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure impairs molar tooth development in rats. *Toxicol. Appl. Pharmacol.* 174(3):216-224.
- Kawakami, T., R. Ishimura, K. Nohara, K. Takeda, C. Tohyama and S. Ohsako. 2006. Differential susceptibilities of Holtzman and Sprague-Dawley rats to fetal death and placental dysfunction induced by 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) despite the identical primary structure of the aryl hydrocarbon receptor. *Toxicol. Appl. Pharmacol.* 212(3):224-236.
- Kayajanian, G.M. 2000. Southeast Asia, promotability and dioxin's relationship to cancer incidence in operation ranch hand veterans. *Ecotoxicol. Environ. Saf.* 46(2):125-129.

- Kayajanian, G.M. 2001. Dioxin body burdens in operation ranch hand veterans: promotion blocking and cancer causation. *Ecotoxicol. Environ. Saf.* 50(3):167-173.
- Kayajanian, G.M. 2002. The J-shaped dioxin dose response curve. *Ecotoxicol. Environ. Saf.* 51(1):1-4.
- Keller, J.M., J.C. Huang, Y. Huet-Hudson and L.J. Leamy. 2007a. The effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin on molar and mandible traits in congenic mice: a test of the role of the Ahr locus. *Toxicology.* 242(1-3):52-62.
- Keller, J.M., Y.M. Huet-Hudson and L.J. Leamy. 2007b. Qualitative effects of dioxin on molars vary among inbred mouse strains. *Arch. Oral Biol.* 52(5):450-454.
- Keller, J.M., D.E. Allen, C.R. Davis and L.J. Leamy. 2007c. 2,3,7,8-Tetrachlorodibenzo-p-dioxin affects fluctuating asymmetry of molar shape in mice, and an epistatic interaction of two genes for molar size. *Heredity.* 98(5):259-267.
- Keller, J.M., Y. Huet-Hudson and L.J. Leamy. 2008. Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin on molar development among non-resistant inbred strains of mice: a geometric morphometric analysis. *Growth Dev. Aging.* 71(1):3-16.
- Kellerhoff, N.M. and A. Lussi. 2004. ["Molar-incisor hypomineralization"]. *Schweiz. Monatsschr. Zahnmed.* 114(3):243-253.
- Kelley, S.K., C.B. Nilsson, M.H. Green, J.B. Green and H. Hakansson. 2000. Mobilization of vitamin A stores in rats after administration of 2,3,7,8-tetrachlorodibenzo-p-dioxin: a kinetic analysis. *Toxicol. Sci.* 55(2):478-484.
- Kerkvliet, N.I., D.M. Shepherd and L. Baecher-Steppan. 2002. T lymphocytes are direct, aryl hydrocarbon receptor (AhR)-dependent targets of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD): AhR expression in both CD4+ and CD8+ T cells is necessary for full suppression of a cytotoxic T lymphocyte response by TCDD. *Toxicol. Appl. Pharmacol.* 185(2):146-152.
- Kern, P.A., S. Said, W.G. Jackson, Jr. and J.E. Michalek. 2004. Insulin sensitivity following agent orange exposure in Vietnam veterans with high blood levels of 2,3,7,8-tetrachlorodibenzo-p-dioxin. *J. Clin. Endocrinol. Metab.* 89(9):4665-4672.
- Ketchum, N.S. and J.E. Michalek. 2005. Postservice mortality of Air Force veterans occupationally exposed to herbicides during the Vietnam War: 20-year follow-up results. *Mil. Med.* 170(5):406-413.
- Khripach, L.V., V.S. Zhurkov, I. Revazova and I. Rakhmanin. 2005. [Problems in the assessment of carcinogenic risk of dioxins]. *Gig. Sanit.*(6):24-27.
- Kim, A.H., M.C. Kohn, A. Nyska and N.J. Walker. 2003a. Area under the curve as a dose metric for promotional responses following 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure. *Toxicol. Appl. Pharmacol.* 191(1):12-21.

Kim, H.A., E.M. Kim, Y.C. Park, J.Y. Yu, S.K. Hong, S.H. Jeon, K.L. Park, S.J. Hur and Y. Heo. 2003b. Immunotoxicological effects of Agent Orange exposure to the Vietnam War Korean veterans. *Ind. Health.* 41(3):158-166.

Kim, H.J., K.S. Jeong, S.J. Park, S.W. Cho, H.Y. Son, S.R. Kim, S.H. Kim, M.Y. An and S.Y. Ryu. 2003c. Effects of benzo[alpha]pyrene, 2-bromopropane, phenol and 2,3,7,8-tetrachlorodibenzo-p-dioxin on IL-6 production in mice after single or repeated exposure. *In Vivo.* 17(3):269-275.

Kim, J.S., H.S. Lim, S.I. Cho, H.K. Cheong and M.K. Lim. 2003d. Impact of Agent Orange exposure among Korean Vietnam veterans. *Ind. Health.* 41(3):149-157.

Kimbrough, R.D. and C. Krouskas. 2002. Polychlorinated biphenyls, TEQs, children, and data analysis. *Vet. Hum. Toxicol.* 44(6):354-357.

Kimbrough, R.D., M.L. Doemland and C.A. Krouskas. 2001. Analysis of research studying the effects of polychlorinated biphenyls and related chemicals on neurobehavioral development in children. *Vet. Hum. Toxicol.* 43(4):220-228.

Kishi, R., F. Sata, Y. Saijo, N. Kurahashi, S. Kato, S. Nakajima and S. Sasaki. 2006. [Exposure to endocrine disrupting chemicals and children's health: problems in epidemiological studies]. *Nippon Eiseigaku Zasshi.* 61(1):19-31.

Kitamura, N., P. Wong and F. Matsumura. 2006. Mechanistic investigation on the cause for reduced toxicity of TCDD in wa-1 homozygous TGFA $\alpha$  mutant strain of mice as compared its matching wild-type counterpart, C57BL/6J mice. *J. Biochem. Mol. Toxicol.* 20(4):151-158.

Ko, K., H.M. Theobald and R.E. Peterson. 2002. In utero and lactational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin in the C57BL/6J mouse prostate: lobe-specific effects on branching morphogenesis. *Toxicol. Sci.* 70(2):227-237.

Ko, K., R.W. Moore and R.E. Peterson. 2004a. Aryl hydrocarbon receptors in urogenital sinus mesenchyme mediate the inhibition of prostatic epithelial bud formation by 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicol. Appl. Pharmacol.* 196(1):149-155.

Ko, K., H.M. Theobald, R.W. Moore and R.E. Peterson. 2004b. Evidence that inhibited prostatic epithelial bud formation in 2,3,7,8-tetrachlorodibenzo-p-dioxin-exposed C57BL/6J fetal mice is not due to interruption of androgen signaling in the urogenital sinus. *Toxicol. Sci.* 79(2):360-369.

Kogevinas, M. 2000. Studies of cancer in humans. *Food Addit. Contam.* 17(4):317-324.

Kogevinas, M. 2001. Human health effects of dioxins: cancer, reproductive and endocrine system effects. *Hum. Reprod. Update.* 7(3):331-339.

- Kogevinas, M. and G. Janer. 2000. [Health effects of dioxins]. *Med. Clin. (Barc. )*. 115(19):740-748.
- Kopec, A.K., D.R. Boverhof, L.D. Burgoon, D. Ibrahim-Aibo, J.R. Harkema, C. Tashiro, B. Chittim and T.R. Zacharewski. 2008. Comparative toxicogenomic examination of the hepatic effects of PCB126 and TCDD in immature, ovariectomized C57BL/6 mice. *Toxicol. Sci.* 102(1):61-75.
- Kopf, P.G., J.K. Huwe and M.K. Walker. 2008. Hypertension, Cardiac Hypertrophy, and Impaired Vascular Relaxation Induced by 2,3,7,8-Tetrachlorodibenzo-p-Dioxin are Associated with Increased Superoxide. *Cardiovasc. Toxicol.* 8(4):181-193.
- Korenaga, T., T. Fukusato, M. Ohta, K. Asaoka, N. Murata, A. Arima and S. Kubota. 2007. Long-term effects of subcutaneously injected 2,3,7,8-tetrachlorodibenzo-p-dioxin on the liver of rhesus monkeys. *Chemosphere.* 67(9):S399-S404.
- Kransler, K.M., B.P. McGarrigle and J.R. Olson. 2007a. Comparative developmental toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin in the hamster, rat and guinea pig. *Toxicology.* 229(3):214-225.
- Kransler, K.M., D.A. Tonucci, B.P. McGarrigle, J.L. Napoli and J.R. Olson. 2007b. Gestational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin alters retinoid homeostasis in maternal and perinatal tissues of the Holtzman rat. *Toxicol. Appl. Pharmacol.* 224(1):29-38.
- Kransler, K.M., B.P. McGarrigle, R.J. Russell and J.R. Olson. 2008. Effects of Helicobacter infection on developmental toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin in Holtzman rats. *Lab Anim (NY).* 37(4):171-175.
- Kristensen, V.N. and A.L. Borresen-Dale. 2000. Molecular epidemiology of breast cancer: genetic variation in steroid hormone metabolism. *Mutat. Res.* 462(2-3):323-333.
- Kronenberg, S., Z. Lai and C. Esser. 2000. Generation of alphabeta T-cell receptor+ CD4- CD8+ cells in major histocompatibility complex class I-deficient mice upon activation of the aryl hydrocarbon receptor by 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Immunology.* 100(2):185-193.
- Kuchiiwa, S., S.B. Cheng, I. Nagatomo, Y. Akasaki, M. Uchida, M. Tominaga, W. Hashiguchi and T. Kuchiiwa. 2002. In utero and lactational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin decreases serotonin-immunoreactive neurons in raphe nuclei of male mouse offspring. *Neurosci. Lett.* 317(2):73-76.
- Kwon, Y.I., J.D. Yeon, S.M. Oh and K.H. Chung. 2004. Protective effects of ursodeoxycholic acid against 2,3,7,8-tetrachlorodibenzo-p-dioxin-induced testicular damage in mice. *Toxicol. Appl. Pharmacol.* 194(3):239-247.

- La Merrill, M., D. Baston, M. Denison, L. Birnbaum, D. Pomp and D.W. Threadgill. 2008. Mouse breast cancer model-dependent changes in metabolic syndrome-associated phenotypes caused by maternal dioxin exposure and dietary fat. *Am. J. Physiol Endocrinol. Metab.*
- Laiosa, M.D., Z.W. Lai, T.S. Thurmond, N.C. Fiore, C. DeRossi, B.C. Holdener, T.A. Gasiewicz and A.E. Silverstone. 2002. 2,3,7,8-tetrachlorodibenzo-p-dioxin causes alterations in lymphocyte development and thymic atrophy in hemopoietic chimeras generated from mice deficient in ARNT2. *Toxicol. Sci.* 69(1):117-124.
- Langer, P. 2008. Persistent organochlorinated pollutants (PCB, DDE, HCB, dioxins, furans) and the thyroid--review 2008. *Endocr. Regul.* 42(2-3):79-104.
- Latchoumycandane, C., K.C. Chitra and P.P. Mathur. 2002. The effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin on the antioxidant system in mitochondrial and microsomal fractions of rat testis. *Toxicology.* 171(2-3):127-135.
- Lawrence, B.P., T.K. Warren and H. Luong. 2000. Fewer T lymphocytes and decreased pulmonary influenza virus burden in mice exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). *J. Toxicol. Environ. Health A.* 61(1):39-53.
- Lawrence, B.P. and B.A. Vorderstrasse. 2004. Activation of the aryl hydrocarbon receptor diminishes the memory response to homotypic influenza virus infection but does not impair host resistance. *Toxicol. Sci.* 79(2):304-314.
- Lawrence, B.P., A.D. Roberts, J.J. Neumiller, J.A. Cundiff and D.L. Woodland. 2006. Aryl hydrocarbon receptor activation impairs the priming but not the recall of influenza virus-specific CD8+ T cells in the lung. *J. Immunol.* 177(9):5819-5828.
- Lawson, C.C., T.M. Schnorr, E.A. Whelan, J.A. Deddens, D.A. Dankovic, L.A. Piacitelli, M.H. Sweeney and L.B. Connally. 2004. Paternal occupational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin and birth outcomes of offspring: birth weight, preterm delivery, and birth defects. *Environ. Health Perspect.* 112(14):1403-1408.
- Lee, C.C., Y.J. Yao, H.L. Chen, Y.L. Guo and H.J. Su. 2006a. Fatty liver and hepatic function for residents with markedly high serum PCDD/Fs levels in Taiwan. *J. Toxicol. Environ. Health A.* 69(5):367-380.
- Lee, D.H., I.K. Lee, K. Song, M. Steffes, W. Toscano, B.A. Baker and D.R. Jacobs, Jr. 2006b. A strong dose-response relation between serum concentrations of persistent organic pollutants and diabetes: results from the National Health and Examination Survey 1999-2002. *Diabetes Care.* 29(7):1638-1644.
- Lee, D.H., I.K. Lee, M. Porta, M. Steffes and D.R. Jacobs, Jr. 2007a. Relationship between serum concentrations of persistent organic pollutants and the prevalence of metabolic syndrome among non-diabetic adults: results from the National Health and Nutrition Examination Survey 1999-2002. *Diabetologia.* 50(9):1841-1851.

- Lee, J.H., D. Sul, E. Oh, W.W. Jung, K.W. Hwang, T.S. Hwang, K.C. Lee and N.H. Won. 2007b. Panax ginseng effects on DNA damage, CYP1A1 expression and histopathological changes in testes of rats exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Food Chem. Toxicol.* 45(11):2237-2244.
- Lensu, S., R. Miettinen, R. Pohjanvirta, J. Linden and J. Tuomisto. 2006. Assessment by c-Fos immunostaining of changes in brain neural activity induced by 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) and leptin in rats. *Basic Clin. Pharmacol. Toxicol.* 98(4):363-371.
- Lewis, B.C., S. Hudgins, A. Lewis, K. Schorr, R. Sommer, R.E. Peterson, J.A. Flaws and P.A. Furth. 2001. In utero and lactational treatment with 2,3,7,8-tetrachlorodibenzo-p-dioxin impairs mammary gland differentiation but does not block the response to exogenous estrogen in the postpubertal female rat. *Toxicol. Sci.* 62(1):46-53.
- Li, X.M. and J. Li. 2003. [Environmental hormones and their effects on human health]. *Zhonghua Yu Fang Yi. Xue. Za Zhi.* 37(3):209-211.
- Li, B., H.Y. Liu, L.J. Dai, J.C. Lu, Z.M. Yang and L. Huang. 2006. The early embryo loss caused by 2,3,7,8-tetrachlorodibenzo-p-dioxin may be related to the accumulation of this compound in the uterus. *Reprod. Toxicol.* 21(3):301-306.
- Lim, C.K., M. Danton, B. Clothier and A.G. Smith. 2006. Dihydroxy-, hydroxyspirolactone-, and dihydroxyspirolactone-urochlorins induced by 2,3,7,8-tetrachlorodibenzo-p-dioxin in the liver of mice. *Chem. Res. Toxicol.* 19(12):1660-1667.
- Lin, T.M., K. Ko, R.W. Moore, D.L. Buchanan, P.S. Cooke and R.E. Peterson. 2001. Role of the aryl hydrocarbon receptor in the development of control and 2,3,7,8-tetrachlorodibenzo-p-dioxin-exposed male mice. *J. Toxicol. Environ. Health A.* 64(4):327-342.
- Lin, T.M., U. Simanainen, R.W. Moore and R.E. Peterson. 2002a. Critical windows of vulnerability for effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin on prostate and seminal vesicle development in C57BL/6 mice. *Toxicol. Sci.* 69(1):202-209.
- Lin, T.M., K. Ko, R.W. Moore, U. Simanainen, T.D. Oberley and R.E. Peterson. 2002b. Effects of aryl hydrocarbon receptor null mutation and in utero and lactational 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure on prostate and seminal vesicle development in C57BL/6 mice. *Toxicol. Sci.* 68(2):479-487.
- Linden, J., M. Korkalainen, S. Lensu, J. Tuomisto and R. Pohjanvirta. 2005. Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) and leptin on hypothalamic mRNA expression of factors participating in food intake regulation in a TCDD-sensitive and a TCDD-resistant rat strain. *J. Biochem. Mol. Toxicol.* 19(3):139-148.

- Link, B., T. Gabrio, I. Zollner, I. Piechotowski and B. Kouros. 2007. Sentinel health department project in Baden-Wuerttemberg (Germany)--a useful tool for monitoring children's health and environment. *Int. J. Hyg. Environ. Health.* 210(3-4):351-355.
- Liu, J. and N.J. Tang. 2006. [Advance of research on skin injury after exposure to 2, 3, 7, 8-tetrachlorodibenzo-p-dioxin]. *Zhonghua Lao. Dong. Wei Sheng Zhi. Ye. Bing. Za Zhi.* 24(4):250-252.
- Loertscher, J.A., T.M. Lin, R.E. Peterson and B.L. Allen-Hoffmann. 2002. In utero exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin causes accelerated terminal differentiation in fetal mouse skin. *Toxicol. Sci.* 68(2):465-472.
- Longnecker, M.P. and J.L. Daniels. 2001. Environmental contaminants as etiologic factors for diabetes. *Environ. Health Perspect.* 109 Suppl 6:871-876.
- Luebeck, E.G., A. Buchmann, S. Stinchcombe, S.H. Moolgavkar and M. Schwarz. 2000. Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin on initiation and promotion of GST-P-positive foci in rat liver: A quantitative analysis of experimental data using a stochastic model. *Toxicol. Appl. Pharmacol.* 167(1):63-73.
- Luebke, R.W., C.B. Copeland, M. Daniels, A.L. Lambert and M.I. Gilmour. 2001. Suppression of allergic immune responses to house dust mite (HDM) in rats exposed to 2,3,7,8-TCDD. *Toxicol. Sci.* 62(1):71-79.
- Luebke, R.W., C.B. Copeland, L.R. Bishop, M.J. Daniels and M.I. Gilmour. 2002. Mortality in dioxin-exposed mice infected with influenza: mitochondrial toxicity (reye's-like syndrome) versus enhanced inflammation as the mode of action. *Toxicol. Sci.* 69(1):109-116.
- Luebke, R.W., D.H. Chen, R. Dietert, Y. Yang, M. King and M.I. Luster. 2006. The comparative immunotoxicity of five selected compounds following developmental or adult exposure. *J. Toxicol. Environ. Health B Crit Rev.* 9(1):1-26.
- Lukinmaa, P.L., C. Sahlberg, A. Leppaniemi, A.M. Partanen, O. Kovero, R. Pohjanvirta, J. Tuomisto and S. Alaluusua. 2001. Arrest of rat molar tooth development by lactational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicol. Appl. Pharmacol.* 173(1):38-47.
- Lundqvist, C., M. Zuurbier, M. Leijds, C. Johansson, S. Ceccatelli, M. Saunders, G. Schoeters, G. ten Tusscher and J.G. Koppe. 2006. The effects of PCBs and dioxins on child health. *Acta Paediatr. Suppl.* 95(453):55-64.
- Ma, X., J.R. Idle, M.A. Malfatti, K.W. Krausz, D.W. Nebert, C.S. Chen, J.S. Felton, D.J. Waxman and F.J. Gonzalez. 2007. Mouse lung CYP1A1 catalyzes the metabolic activation of 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP). *Carcinogenesis.* 28(3):732-737.



- Mally, A. and J.K. Chipman. 2002. Non-genotoxic carcinogens: early effects on gap junctions, cell proliferation and apoptosis in the rat. *Toxicology*. 180(3):233-248.
- Mariussen, E. and F. Fonnum. 2006. Neurochemical targets and behavioral effects of organohalogen compounds: an update. *Crit Rev. Toxicol.* 36(3):253-289.
- Marwick, C. 2003. Link found between Agent Orange and chronic lymphocytic leukaemia. *BMJ*. 326(7383):242.
- Massart, F. and V. Meucci. 2007. Environmental thyroid toxicants and child endocrine health. *Pediatr. Endocrinol. Rev.* 5(1):500-509.
- Matsuki, H. and Y. Kawano. 2004. [Dioxin]. *Nippon Rinsho*. 62 Suppl 12:498-501.
- Matsuura, N., T. Uchiyama, H. Tada, Y. Nakamura, N. Kondo, M. Morita and M. Fukushima. 2001. Effects of dioxins and polychlorinated biphenyls (PCBs) on thyroid function in infants born in Japan--the second report from research on environmental health. *Chemosphere*. 45(8):1167-1171.
- Maurin, J.C., F. Bleicher and H. Magloire. 2005. [Clinical consequences of dioxins exposure during tooth development]. *Arch. Pediatr.* 12(11):1636-1640.
- Mendola, P., S.G. Selevan, S. Gutter and D. Rice. 2002. Environmental factors associated with a spectrum of neurodevelopmental deficits. *Ment. Retard. Dev. Disabil. Res. Rev.* 8(3):188-197.
- Meulenbelt, J. and I. de Vries. 2005. [Toxicity of dioxins in humans]. *Ned. Tijdschr. Geneesk.* 149(4):168-171.
- Meyer, K.M. 2002. Incidence of CTCL in Vietnam veterans. *Dermatol. Nurs.* 14(1):42, 45, 52.
- Michalek, J.E. and M. Pavuk. 2008. Diabetes and cancer in veterans of Operation Ranch Hand after adjustment for calendar period, days of spraying, and time spent in Southeast Asia. *J. Occup. Environ. Med.* 50(3):330-340.
- Michalek, J.E., F.Z. Akhtar, J.C. Arezzo, D.H. Garabrant and J.W. Albers. 2001a. Serum dioxin and peripheral neuropathy in veterans of Operation Ranch Hand. *Neurotoxicology*. 22(4):479-490.
- Michalek, J.E., N.S. Ketchum and M.P. Longnecker. 2001b. Serum dioxin and hepatic abnormalities in veterans of Operation Ranch Hand. *Ann. Epidemiol.* 11(5):304-311.
- Michalek, J.E., F.Z. Akhtar, M.P. Longnecker and J.E. Burton. 2001c. Relation of serum 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) level to hematological examination results in veterans of Operation Ranch Hand. *Arch. Environ. Health.* 56(5):396-405.

Michalek, J.E., D.H. Barrett, R.D. Morris and W.G. Jackson, Jr. 2003. Serum dioxin and psychological functioning in U.S. Air Force veterans of the Vietnam War. *Mil. Med.* 168(2):153-159.

Miettinen, H.M., S. Alaluusua, J. Tuomisto and M. Viluksela. 2002. Effect of in utero and lactational 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure on rat molar development: the role of exposure time. *Toxicol. Appl. Pharmacol.* 184(1):57-66.

Miettinen, H.M., H. Huuskonen, A.M. Partanen, P. Miettinen, J.T. Tuomisto, R. Pohjanvirta and J. Tuomisto. 2004. Effects of epidermal growth factor receptor deficiency and 2,3,7,8-tetrachlorodibenzo-p-dioxin on fetal development in mice. *Toxicol. Lett.* 150(3):285-291.

Miettinen, H.M., P. Pulkkinen, T. Jamsa, J. Koistinen, U. Simanainen, J. Tuomisto, J. Tuukkanen and M. Viluksela. 2005. Effects of in utero and lactational TCDD exposure on bone development in differentially sensitive rat lines. *Toxicol. Sci.* 85(2):1003-1012.

Miettinen, H.M., R. Sorvari, S. Alaluusua, M. Murtomaa, J. Tuukkanen and M. Viluksela. 2006. The effect of perinatal TCDD exposure on caries susceptibility in rats. *Toxicol. Sci.* 91(2):568-575.

Miller, K.P., C. Borgeest, C. Greenfeld, D. Tomic and J.A. Flaws. 2004. In utero effects of chemicals on reproductive tissues in females. *Toxicol. Appl. Pharmacol.* 198(2):111-131.

Mitchell, K.A. and B.P. Lawrence. 2003a. T cell receptor transgenic mice provide novel insights into understanding cellular targets of TCDD: suppression of antibody production, but not the response of CD8(+) T cells, during infection with influenza virus. *Toxicol. Appl. Pharmacol.* 192(3):275-286.

Mitchell, K.A. and B.P. Lawrence. 2003b. Exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) renders influenza virus-specific CD8+ T cells hyporesponsive to antigen. *Toxicol. Sci.* 74(1):74-84.

Mitchell, K.A., C.A. Lockhart, G. Huang and C.J. Elferink. 2006. Sustained aryl hydrocarbon receptor activity attenuates liver regeneration. *Mol. Pharmacol.* 70(1):163-170.

Mitrou, P.I., G. Dimitriadis and S.A. Raptis. 2001. Toxic effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin and related compounds. *Eur. J. Intern. Med.* 12(5):406-411.

Mitsui, T., N. Sugiyama, S. Maeda, C. Tohyama and J. Arita. 2006. Perinatal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin suppresses contextual fear conditioning-accompanied activation of cyclic AMP response element-binding protein in the hippocampal CA1 region of male rats. *Neurosci. Lett.* 398(3):206-210.

Mocarelli, P. 2001. Seveso: a teaching story. *Chemosphere.* 43(4-7):391-402.

Mocarelli, P., P.M. Gerthoux, D.G. Patterson, Jr., S. Milani, G. Limonta, M. Bertona, S. Signorini, P. Tramacere, L. Colombo, C. Crespi, P. Brambilla, C. Sarto, V. Carreri, E.J. Sampson, W.E. Turner and L.L. Needham. 2008. Dioxin exposure, from infancy through puberty, produces endocrine disruption and affects human semen quality. *Environ. Health Perspect.* 116(1):70-77.

Moennikes, O., S. Loeppen, A. Buchmann, P. Andersson, C. Ittrich, L. Poellinger and M. Schwarz. 2004. A constitutively active dioxin/aryl hydrocarbon receptor promotes hepatocarcinogenesis in mice. *Cancer Res.* 64(14):4707-4710.

Moon, D.G., K.C. Lee, Y.W. Kim, H.S. Park, H.Y. Cho and J.J. Kim. 2004. Effect of TCDD on corpus cavernosum histology and smooth muscle physiology. *Int. J. Impot. Res.* 16(3):224-230.

Moon, B.H., C.G. Hong, S.Y. Kim, H.J. Kim, S.K. Shin, S. Kang, K.J. Lee, Y.K. Kim, M.S. Lee and K.H. Shin. 2008. A single administration of 2,3,7,8-tetrachlorodibenzo-p-dioxin that produces reduced food and water intake induces long-lasting expression of corticotropin-releasing factor, arginine vasopressin, and proopiomelanocortin in rat brain. *Toxicol. Appl. Pharmacol.*

Moran, F.M., R. Tarara, J. Chen, S. Santos, A. Cheney, J.W. Overstreet and B.L. Lasley. 2001. Effect of dioxin on ovarian function in the cynomolgus macaque (*M. fascicularis*). *Reprod. Toxicol.* 15(4):377-383.

Moriguchi, T., H. Motohashi, T. Hosoya, O. Nakajima, S. Takahashi, S. Ohsako, Y. Aoki, N. Nishimura, C. Tohyama, Y. Fujii-Kuriyama and M. Yamamoto. 2003. Distinct response to dioxin in an arylhydrocarbon receptor (AHR)-humanized mouse. *Proc. Natl. Acad. Sci. U. S. A.* 100(10):5652-5657.

Moshhammer, H. and M. Neuberger. 2000. Sex ratio in the children of the Austrian chloracne cohort. *Lancet.* 356(9237):1271-1272.

Mukai, M., T.M. Lin, R.E. Peterson, P.S. Cooke and S.A. Tischkau. 2008. Behavioral rhythmicity of mice lacking AhR and attenuation of light-induced phase shift by 2,3,7,8-tetrachlorodibenzo-p-dioxin. *J. Biol. Rhythms.* 23(3):200-210.

Murante, F.G. and T.A. Gasiewicz. 2000. Hemopoietic progenitor cells are sensitive targets of 2,3,7,8-tetrachlorodibenzo-p-dioxin in C57BL/6J mice. *Toxicol. Sci.* 54(2):374-383.

Mustafa, A., S.D. Holladay, M. Goff, S.G. Witonsky, R. Kerr, C.M. Reilly, D.P. Sponenberg and R.M. Gogal, Jr. 2008. An enhanced postnatal autoimmune profile in 24 week-old C57BL/6 mice developmentally exposed to TCDD. *Toxicol. Appl. Pharmacol.* 232(1):51-59.

Mutoh, J., T. Ishida, Y. Ishii and H. Yamada. 2007. [Effect on the expression of testicular steroidogenic enzymes in fetal mouse by maternal exposure to TCDD]. *Fukuoka Igaku Zasshi.* 98(5):203-207.

Myllymaki, S.A., T.E. Haavisto, L.J. Brokken, M. Viluksela, J. Toppari and J. Paranko. 2005. In utero and lactational exposure to TCDD; steroidogenic outcomes differ in male and female rat pups. *Toxicol. Sci.* 88(2):534-544.

Nagai, H., M. Kubo, R. Abe, M. Yamamoto and K. Nohara. 2006. Constitutive activation of the aryl hydrocarbon receptor in T-lineage cells induces thymus involution independently of the Fas/Fas ligand signaling pathway. *Int. Immunopharmacol.* 6(2):279-286.

Nagayama, J., M. Nagayama, T. Iida, H. Hirakawa, T. Matsueda, T. Yanagawa and J. Fukushima. 2001a. Effect of dioxins in mother's milk on sister chromatid exchange frequency in infant lymphocytes. *Fukuoka Igaku Zasshi.* 92(5):177-183.

Nagayama, J., M. Nagayama, T. Iida, H. Hirakawa, T. Matsueda, M. Ohki and H. Tsuji. 2001b. Effects of donor age and contamination level of dioxins and related chemicals on frequency of sister chromatid exchanges in human lymphocytes cultured in vitro. *Chemosphere.* 43(4-7):845-849.

Nagayama, J., M. Nagayama, T. Iida, H. Hirakawa, T. Matsueda and J. Fukushima. 2003. Frequency of SCEs in Japanese infants exposed to dioxins and PCBs through the breast milk. *Fukuoka Igaku Zasshi.* 94(5):158-165.

Nagayama, J., H. Tsuji, T. Iida, R. Nakagawa, T. Matsueda, H. Hirakawa, T. Yanagawa, J. Fukushima and T. Watanabe. 2007a. Immunologic effects of perinatal exposure to dioxins, PCBs and organochlorine pesticides in Japanese infants. *Chemosphere.* 67(9):S393-S398.

Nagayama, J., H. Kohno, T. Kunisue, K. Kataoka, H. Shimomura, S. Tanabe and S. Konishi. 2007b. Concentrations of organochlorine pollutants in mothers who gave birth to neonates with congenital hypothyroidism. *Chemosphere.* 68(5):972-976.

Nakajima, S., Y. Saijo, S. Kato, S. Sasaki, A. Uno, N. Kanagami, H. Hirakawa, T. Hori, K. Tobiishi, T. Todaka, Y. Nakamura, S. Yanagiya, Y. Sengoku, T. Iida, F. Sata and R. Kishi. 2006. Effects of prenatal exposure to polychlorinated biphenyls and dioxins on mental and motor development in Japanese children at 6 months of age. *Environ. Health Perspect.* 114(5):773-778.

National Toxicology Program. 2002. 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD); "dioxin". *Rep. Carcinog.* 10:224-226.

National Toxicology Program. 2006. NTP technical report on the toxicology and carcinogenesis studies of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) (CAS No. 1746-01-6) in female Harlan Sprague-Dawley rats (Gavage Studies). *Natl. Toxicol. Program. Tech. Rep. Ser.(521):4-232.*

Nau, H. 2006. [Impacts and impact mechanisms of "dioxins" in humans and animals]. *Dtsch. Tierarztl. Wochenschr.* 113(8):292-297.

- Nayyar, T., K.L. Bruner-Tran, D. Piestrzeniewicz-Ulanska and K.G. Osteen. 2007. Developmental exposure of mice to TCDD elicits a similar uterine phenotype in adult animals as observed in women with endometriosis. *Reprod. Toxicol.* 23(3):326-336.
- Neff-LaFord, H.D., B.A. Vorderstrasse and B.P. Lawrence. 2003. Fewer CTL, not enhanced NK cells, are sufficient for viral clearance from the lungs of immunocompromised mice. *Cell Immunol.* 226(1):54-64.
- Neff-LaFord, H., S. Teske, T.P. Bushnell and B.P. Lawrence. 2007. Aryl hydrocarbon receptor activation during influenza virus infection unveils a novel pathway of IFN-gamma production by phagocytic cells. *J. Immunol.* 179(1):247-255.
- Negishi, T., H. Shimomura, T. Koyama, K. Kawasaki, Y. Ishii, S. Kyuwa, M. Yasuda, Y. Kuroda and Y. Yoshikawa. 2006. Gestational and lactational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin affects social behaviors between developing rhesus monkeys (*Macaca mulatta*). *Toxicol. Lett.* 160(3):233-244.
- Neubert, R., L. Maskow, G. Triebig, H.C. Broding, U. Jacob-Muller, H. Helge and D. Neubert. 2000. Chlorinated dibenzo-p-dioxins and dibenzofurans and the human immune system: 3. Plasma immunoglobulins and cytokines of workers with quantified moderately-increased body burdens. *Life Sci.* 66(22):2123-2142.
- Ngaon, L.T. and T. Yoshimura. 2001. Liver Cancer in Viet Nam: Risk Estimates of Viral Infections and Dioxin Exposure in the South and North Populations. *Asian Pac. J. Cancer Prev.* 2(3):199-202.
- Ngo, A.D., R. Taylor, C.L. Roberts and T.V. Nguyen. 2006. Association between Agent Orange and birth defects: systematic review and meta-analysis. *Int. J. Epidemiol.* 35(5):1220-1230.
- Niittynen, M., J.T. Tuomisto, S. Auriola, R. Pohjanvirta, P. Syrjala, U. Simanainen, M. Viluksela and J. Tuomisto. 2003. 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-induced accumulation of biliverdin and hepatic peliosis in rats. *Toxicol. Sci.* 71(1):112-123.
- Niittynen, M., U. Simanainen, P. Syrjala, R. Pohjanvirta, M. Viluksela, J. Tuomisto and J.T. Tuomisto. 2007. Differences in acute toxicity syndromes of 2,3,7,8-tetrachlorodibenzo-p-dioxin and 1,2,3,4,7,8-hexachlorodibenzo-p-dioxin in rats. *Toxicology.* 235(1-2):39-51.
- Niittynen, M., J.T. Tuomisto and R. Pohjanvirta. 2008. Effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) on heme oxygenase-1, biliverdin IXalpha reductase and delta-aminolevulinic acid synthetase 1 in rats with wild-type or variant AH receptor. *Toxicology.* 250(2-3):132-142.
- Nilsson, C.B., P. Hoegberg, C. Trossvik, V. zais-Braesco, W.S. Blaner, G. Fex, E.H. Harrison, H. Nau, C.K. Schmidt, A.M. van Bennekum and H. Hakansson. 2000. 2,3,7,8-tetrachlorodibenzo-p-dioxin increases serum and kidney retinoic acid levels and kidney retinol esterification in the rat. *Toxicol. Appl. Pharmacol.* 169(2):121-131.

Nishijo, M., J. Kuriwaki, E. Hori, K. Tawara, H. Nakagawa and H. Nishijo. 2007. Effects of maternal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin on fetal brain growth and motor and behavioral development in offspring rats. *Toxicol. Lett.* 173(1):41-47.

Nishijo, M., K. Tawara, H. Nakagawa, R. Honda, T. Kido, H. Nishijo and S. Saito. 2008. 2,3,7,8-Tetrachlorodibenzo-p-dioxin in maternal breast milk and newborn head circumference. *J. Expo. Sci. Environ. Epidemiol.* 18(3):246-251.

Nishimura, N., Y. Miyabara, J.S. Suzuki, M. Sato, Y. Aoki, M. Satoh, J. Yonemoto and C. Tohyama. 2001. Induction of metallothionein in the livers of female Sprague-Dawley rats treated with 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Life Sci.* 69(11):1291-1303.

Nishimura, N., Y. Miyabara, M. Sato, J. Yonemoto and C. Tohyama. 2002. Immunohistochemical localization of thyroid stimulating hormone induced by a low oral dose of 2,3,7,8-tetrachlorodibenzo-p-dioxin in female Sprague-Dawley rats. *Toxicology.* 171(2-3):73-82.

Nishimura, N., J. Yonemoto, Y. Miyabara, M. Sato and C. Tohyama. 2003. Rat thyroid hyperplasia induced by gestational and lactational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Endocrinology.* 144(5):2075-2083.

Nishimura, N., J. Yonemoto, H. Nishimura, S. Ikushiro and C. Tohyama. 2005a. Disruption of thyroid hormone homeostasis at weaning of Holtzman rats by lactational but not in utero exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicol. Sci.* 85(1):607-614.

Nishimura, N., J. Yonemoto, Y. Miyabara, Y. Fujii-Kuriyama and C. Tohyama. 2005b. Altered thyroxine and retinoid metabolic response to 2,3,7,8-tetrachlorodibenzo-p-dioxin in aryl hydrocarbon receptor-null mice. *Arch. Toxicol.* 79(5):260-267.

Nishimura, N., J. Yonemoto, H. Nishimura and C. Tohyama. 2006. Localization of cytochrome P450 1A1 in a specific region of hydronephrotic kidney of rat neonates lactationally exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicology.* 227(1-2):117-126.

Nishimura, N., F. Matsumura, C.F. Vogel, H. Nishimura, J. Yonemoto, W. Yoshioka and C. Tohyama. 2008. Critical role of cyclooxygenase-2 activation in pathogenesis of hydronephrosis caused by lactational exposure of mice to dioxin. *Toxicol. Appl. Pharmacol.* 231(3):374-383.

Nishiumi, S., Y. Yabushita, T. Furuyashiki, I. Fukuda and H. Ashida. 2008. Involvement of SREBPs in 2,3,7,8-tetrachlorodibenzo-p-dioxin-induced disruption of lipid metabolism in male guinea pig. *Toxicol. Appl. Pharmacol.* 229(3):281-289.

Nohara, K., H. Fujimaki, S. Tsukumo, H. Ushio, Y. Miyabara, M. Kijima, C. Tohyama and J. Yonemoto. 2000a. The effects of perinatal exposure to low doses of 2,3,7,8-tetrachlorodibenzo-p-dioxin on immune organs in rats. *Toxicology.* 154(1-3):123-133.

- Nohara, K., H. Ushio, S. Tsukumo, T. Kobayashi, M. Kijima, C. Tohyama and H. Fujimaki. 2000b. Alterations of thymocyte development, thymic emigrants and peripheral T cell population in rats exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicology*. 145(2-3):227-235.
- Nohara, K., H. Fujimaki, S. Tsukumo, K. Inouye, H. Sone and C. Tohyama. 2002a. Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) on T cell-derived cytokine production in ovalbumin (OVA)-immunized C57Bl/6 mice. *Toxicology*. 172(1):49-58.
- Nohara, K., H. Izumi, S. Tamura, R. Nagata and C. Tohyama. 2002b. Effect of low-dose 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) on influenza A virus-induced mortality in mice. *Toxicology*. 170(1-2):131-138.
- Nohara, K., K. Ao, Y. Miyamoto, T. Suzuki, S. Imaizumi, Y. Tateishi, S. Omura, C. Tohyama and T. Kobayashi. 2008. Arsenite-induced thymus atrophy is mediated by cell cycle arrest: a characteristic downregulation of E2F-related genes revealed by a microarray approach. *Toxicol. Sci.* 101(2):226-238.
- Nomura, T. 2008. Transgenerational effects from exposure to environmental toxic substances. *Mutat. Res.* 659(1-2):185-193.
- Nottebrock, C., K. Riecke, M. Kruse, M. Shakibaei and R. Stahlmann. 2006. Effects of 2,3,7,8-tetrachloro-dibenzo-p-dioxin on the extracellular matrix of the thymus in juvenile marmosets (*Callithrix jacchus*). *Toxicology*. 226(2-3):197-207.
- Novelli, M., S. Piaggi and V. De Tata. 2005. 2,3,7,8-Tetrachlorodibenzo-p-dioxin-induced impairment of glucose-stimulated insulin secretion in isolated rat pancreatic islets. *Toxicol. Lett.* 156(2):307-314.
- Oh, E., E. Lee, H. Im, H.S. Kang, W.W. Jung, N.H. Won, E.M. Kim and D. Sul. 2005. Evaluation of immuno- and reproductive toxicities and association between immunotoxicological and genotoxicological parameters in waste incineration workers. *Toxicology*. 210(1):65-80.
- Ohbayashi, H., M. Saito, H. Senoh, Y. Umeda, S. Aiso, K. Yamazaki, K. Nagano, S. Yamamoto and S. Fukushima. 2008. Occurrence of two different types of glutathione S-transferase placental form-positive hepatocytes after a single administration of 2,3,7,8-tetrabromodibenzo-p-dioxin in rats. *Ind. Health*. 46(3):281-288.
- Ohsako, S., Y. Miyabara, M. Sakaue, R. Ishimura, M. Kakeyama, H. Izumi, J. Yonemoto and C. Tohyama. 2002. Developmental stage-specific effects of perinatal 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure on reproductive organs of male rat offspring. *Toxicol. Sci.* 66(2):283-292.
- Ohyama, K. 2006. [Disorders of sex differentiation caused by exogenous sex hormones and endocrine disruptors]. *Nippon Rinsho*. Suppl 2:533-538.

- Ohyama, K., M. Ohta, T. Sano, K. Sato, Y. Nakagomi, Y. Shimura and Y. Yamano. 2007. Maternal exposure of low dose of TCDD modulates the expression of estrogen receptor subunits of male gonads in offspring. *J. Vet. Med. Sci.* 69(6):619-625.
- Okino, S.T. and J.P. Whitlock, Jr. 2000. The aromatic hydrocarbon receptor, transcription, and endocrine aspects of dioxin action. *Vitam. Horm.* 59:241-264.
- Operana, T.N., N. Nguyen, S. Chen, D. Beaton and R.H. Tukey. 2007. Human CYP1A1GFP expression in transgenic mice serves as a biomarker for environmental toxicant exposure. *Toxicol. Sci.* 95(1):98-107.
- Paajarvi, G., M. Viluksela, R. Pohjanvirta, U. Stenius and J. Hogberg. 2005. TCDD activates Mdm2 and attenuates the p53 response to DNA damaging agents. *Carcinogenesis.* 26(1):201-208.
- Pan, X., K. Inouye, T. Ito, H. Nagai, Y. Takeuchi, Y. Miyabara, C. Tohyama and K. Nohara. 2004. Evaluation of relative potencies of PCB126 and PCB169 for the immunotoxicities in ovalbumin (OVA)-immunized mice. *Toxicology.* 204(1):51-60.
- Pande, K., S.M. Moran and C.A. Bradfield. 2005. Aspects of dioxin toxicity are mediated by interleukin 1-like cytokines. *Mol. Pharmacol.* 67(5):1393-1398.
- Panizza, C. and P. Ricci. 2005. [Caffaro pollution, the affaire approaches the end]. *Epidemiol. Prev.* 29(5-6):237-238.
- Panteleyev, A.A. and D.R. Bickers. 2006. Dioxin-induced chloracne--reconstructing the cellular and molecular mechanisms of a classic environmental disease. *Exp. Dermatol.* 15(9):705-730.
- Pape, F. and R. Stahlmann. 2007. [Chloracne after exposure to dioxin]. *Med. Monatsschr. Pharm.* 30(6):206-212.
- Park, S.J., W.K. Yoon, H.Y. Son, S.W. Cho, J.Y. Jung, K.S. Jeong, T.H. Kim, S.H. Kim and S.Y. Ryu. 2006. Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin on leukocyte function-associated antigen-1 mediated splenocyte adhesion. *Anticancer Res.* 26(6B):4575-4583.
- Patterson, R.M., R. Stachlewitz and D. Germolec. 2003. Induction of apoptosis by 2,3,7,8-tetrachlorodibenzo-p-dioxin following endotoxin exposure. *Toxicol. Appl. Pharmacol.* 190(2):120-134.
- Pavuk, M., J.E. Michalek, A. Schecter, N.S. Ketchum, F.Z. Akhtar and K.A. Fox. 2005. Did TCDD exposure or service in Southeast Asia increase the risk of cancer in air force Vietnam veterans who did not spray agent orange? *J. Occup. Environ. Med.* 47(4):335-342.
- Pavuk, M., J.E. Michalek and N.S. Ketchum. 2006. Prostate cancer in US Air Force veterans of the Vietnam war. *J. Expo. Sci. Environ. Epidemiol.* 16(2):184-190.



- Pearce, N. and D. McLean. 2005. Agricultural exposures and non-Hodgkin's lymphoma. *Scand. J. Work Environ. Health.* 31 Suppl 1:18-25.
- Pelclova, D., Z. Fenclova, Z. Dlaskova, P. Urban, E. Lukas, B. Prochazka, C. Rappe, J. Preiss, A. Kocan and J. Vejlupkova. 2001. Biochemical, neuropsychological, and neurological abnormalities following 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) exposure. *Arch. Environ. Health.* 56(6):493-500.
- Pelclova, D., Z. Fenclova, J. Preiss, B. Prochazka, J. Spacil, Z. Dubska, B. Okrouhlik, E. Lukas and P. Urban. 2002. Lipid metabolism and neuropsychological follow-up study of workers exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Int. Arch. Occup. Environ. Health.* 75 Suppl:S60-S66.
- Pelclova, D., P. Urban, J. Preiss, E. Lukas, Z. Fenclova, T. Navratil, Z. Dubska and Z. Senholdova. 2006. Adverse health effects in humans exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). *Rev. Environ. Health.* 21(2):119-138.
- Pelclova, D., M. Prazny, J. Skrha, Z. Fenclova, M. Kalousova, P. Urban, T. Navratil, Z. Senholdova and Z. Smerhovsky. 2007. 2,3,7,8-TCDD exposure, endothelial dysfunction and impaired microvascular reactivity. *Hum. Exp. Toxicol.* 26(9):705-713.
- Penel, N., C. Nisse, S. Feddal and E. Lartigau. 2001. [Epidemiology of soft tissue sarcomas in adults]. *Presse Med.* 30(28):1405-1413.
- Peota, C. 2006. A presumption of illness. *Minn. Med.* 89(2):6-8.
- Perdew, G.H. 8 A.D. Ah Receptor Binding to its Cognate Response Element is Required for Dioxin-Mediated Toxicity. *Toxicol. Sci.* 106(2):301-303.
- Perucatti, A., G.P. Di Meo, S. Albarella, F. Ciotola, D. Incarnato, A.C. Jambrenghi, V. Peretti, G. Vonghia and L. Iannuzzi. 2006. Increased frequencies of both chromosome abnormalities and SCEs in two sheep flocks exposed to high dioxin levels during pasturage. *Mutagenesis.* 21(1):67-75.
- Pesatori, A.C., D. Consonni, S. Bachetti, C. Zocchetti, M. Bonzini, A. Baccarelli and P.A. Bertazzi. 2003. Short- and long-term morbidity and mortality in the population exposed to dioxin after the "Seveso accident". *Ind. Health.* 41(3):127-138.
- Pesatori, A., A. Baccarelli, D. Consonni, A. Lania, P. Beck-Peccoz, P. Bertazzi and A. Spada. 2008. Aryl hydrocarbon receptor interacting protein and pituitary adenomas: a population-based study on subjects exposed to dioxin after the Seveso, Italy, accident. *Eur. J. Endocrinol.*
- Pesonen, S.A., T.E. Haavisto, M. Viluksela, J. Toppari and J. Paranko. 2006. Effects of in utero and lactational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) on rat follicular steroidogenesis. *Reprod. Toxicol.* 22(3):521-528.

- Petroff, B.K., X. Gao, K.K. Rozman and P.F. Terranova. 2000. Interaction of estradiol and 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in an ovulation model: evidence for systemic potentiation and local ovarian effects. *Reprod. Toxicol.* 14(3):247-255.
- Petroff, B.K., X. Gao, K.K. Rozman and P.F. Terranova. 2001. The effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) on weight gain and hepatic ethoxyresorufin-o-deethylase (EROD) induction vary with ovarian hormonal status in the immature gonadotropin-primed rat model. *Reprod. Toxicol.* 15(3):269-274.
- Petroff, B.K., X. Gao, K. Ohshima, F. Shi, D.S. Son, K.F. Roby, K.K. Rozman, G. Watanabe, K. Taya and P.F. Terranova. 2002. Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) on serum inhibin concentrations and inhibin immunostaining during follicular development in female Sprague-Dawley rats. *Reprod. Toxicol.* 16(2):97-105.
- Pflieger-Bruss, S., H.C. Schuppe and W.B. Schill. 2004. The male reproductive system and its susceptibility to endocrine disrupting chemicals. *Andrologia.* 36(6):337-345.
- Phillips, K.P. and N. Tanphaichitr. 2008. Human exposure to endocrine disrupters and semen quality. *J. Toxicol. Environ. Health B Crit Rev.* 11(3-4):188-220.
- Pierard, G.E., G. Plomteux, R. Denooz and C. Charlier. 2005. [Dioxin, poisoning information or brainwashing? On Seveso's and Yushchenko's acne]. *Rev. Med. Liege.* 60(1):18-22.
- Pitt, J.A., A.R. Buckalew, D.E. House and B.D. Abbott. 2000. Adrenocorticotropin (ACTH) and corticosterone secretion by perfused pituitary and adrenal glands from rodents exposed to 2,3,7, 8-tetrachlorodibenzo-p-dioxin (TCDD). *Toxicology.* 151(1-3):25-35.
- Pohjanvirta, R., M. Niittynen, J. Linden, P.C. Boutros, I.D. Moffat and A.B. Okey. 2006. Evaluation of various housekeeping genes for their applicability for normalization of mRNA expression in dioxin-treated rats. *Chem. Biol. Interact.* 160(2):134-149.
- Popp, J.A., E. Crouch and E.E. McConnell. 2006. A Weight-of-evidence analysis of the cancer dose-response characteristics of 2,3,7,8-tetrachlorodibenzodioxin (TCDD). *Toxicol. Sci.* 89(2):361-369.
- Porterfield, S.P. 2000. Thyroidal dysfunction and environmental chemicals--potential impact on brain development. *Environ. Health Perspect.* 108 Suppl 3:433-438.
- Powers, B.E., T.M. Lin, A. Vanka, R.E. Peterson, J.M. Juraska and S.L. Schantz. 2005. Tetrachlorodibenzo-p-dioxin exposure alters radial arm maze performance and hippocampal morphology in female AhR mice. *Genes Brain Behav.* 4(1):51-59.
- Prell, R.A., E. Dearstyne, L.G. Steppan, A.T. Vella and N.I. Kerkvliet. 2000. CTL hyporesponsiveness induced by 2,3,7, 8-tetrachlorodibenzo-p-dioxin: role of cytokines and apoptosis. *Toxicol. Appl. Pharmacol.* 166(3):214-221.

- Ramakrishna, G., C. Perella, L. Birely, B.A. Diwan, L.W. Fornwald and L.M. Anderson. 2002. Decrease in K-ras p21 and increase in Raf1 and activated Erk 1 and 2 in murine lung tumors initiated by N-nitrosodimethylamine and promoted by 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicol. Appl. Pharmacol.* 179(1):21-34.
- Read, D., C. Wright, P. Weinstein and B. Borman. 2007. Cancer incidence and mortality in a New Zealand community potentially exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin from 2,4,5-trichlorophenoxyacetic acid manufacture. *Aust. N. Z. J. Public Health.* 31(1):13-18.
- Render, J.A., J.R. Hochstein, R.J. Aulerich and S.J. Bursian. 2000. Proliferation of periodontal squamous epithelium in mink fed 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). *Vet. Hum. Toxicol.* 42(2):85-86.
- Render, J.A., S.J. Bursian, D.S. Rosenstein and R.J. Aulerich. 2001. Squamous epithelial proliferation in the jaws of mink fed diets containing 3,3',4,4',5-pentachlorobiphenyl (PCB 126) or 2,3,7,8-tetrachlorodibenzo-P-dioxin (TCDD). *Vet. Hum. Toxicol.* 43(1):22-26.
- Revazova, J., V. Yurchenko, L. Katosova, V. Platonova, L. Sycheva, L. Khripach, F. Ingel, T. Tsutsman and V. Zhurkov. 2001. Cytogenetic investigation of women exposed to different levels of dioxins in Chapaevsk town. *Chemosphere.* 43(4-7):999-1004.
- Revich, B., E. Aksel, T. Ushakova, I. Ivanova, N. Zhuchenko, N. Klyuev, B. Brodsky and Y. Sotskov. 2001. Dioxin exposure and public health in Chapaevsk, Russia. *Chemosphere.* 43(4-7):951-966.
- Richter-Reichhelm, H.B., J. Althoff, A. Schulte, S. Ewe and U. Gundert-Remy. 2002. Workshop report. Children as a special subpopulation: focus on immunotoxicity. Federal Institute for Health Protection of Consumers and Veterinary Medicine (BgVV), 15-16 November 2001, Berlin, Germany. *Arch. Toxicol.* 76(7):377-382.
- Riecke, K., D. Grimm, M. Shakibaei, P. Kossmehl, G. Schulze-Tanzil, M. Paul and R. Stahlmann. 2002. Low doses of 2,3,7,8-tetrachlorodibenzo- p-dioxin increase transforming growth factor beta and cause myocardial fibrosis in marmosets ( *Callithrix jacchus*). *Arch. Toxicol.* 76(5-6):360-366.
- Rier, S. and W.G. Foster. 2003. Environmental dioxins and endometriosis. *Semin. Reprod. Med.* 21(2):145-154.
- Rier, S.E., C.L. Coe, A.M. Lemieux, D.C. Martin, R. Morris, G.W. Lucier and G.C. Clark. 2001. Increased tumor necrosis factor-alpha production by peripheral blood leukocytes from TCDD-exposed rhesus monkeys. *Toxicol. Sci.* 60(2):327-337.
- Roby, K.F. 2001. Alterations in follicle development, steroidogenesis, and gonadotropin receptor binding in a model of ovulatory blockade. *Endocrinology.* 142(6):2328-2335.

- Rosselli, M., K. Reinhart, B. Imthurn, P.J. Keller and R.K. Dubey. 2000. Cellular and biochemical mechanisms by which environmental oestrogens influence reproductive function. *Hum. Reprod. Update.* 6(4):332-350.
- Rowland, R.E., L.A. Edwards and J.V. Podd. 2007. Elevated sister chromatid exchange frequencies in New Zealand Vietnam War veterans. *Cytogenet. Genome Res.* 116(4):248-251.
- Rowlands, J.C., R.A. Budinsky, L.L. Aylward, A.S. Faqi and E.W. Carney. 2006. Sex ratio of the offspring of Sprague-Dawley rats exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in utero and lactationally in a three-generation study. *Toxicol. Appl. Pharmacol.* 216(1):29-33.
- Ryan, J.J. and A. Schecter. 2000. Exposure of Russian phenoxy herbicide producers to dioxins. *J. Occup. Environ. Med.* 42(9):861-870.
- Ryo, H., H. Nakajima and T. Nomura. 2006. Germ-Line Mutations at a Mouse ESTR (Pc-3) Locus and Human Microsatellite Loci. *J. Radiat. Res. (Tokyo).* 47 Suppl B:B31-B37.
- Sahlberg, C., R. Pohjanvirta, Y. Gao, S. Alaluusua, J. Tuomisto and P.L. Lukinmaa. 2002. Expression of the mediators of dioxin toxicity, aryl hydrocarbon receptor (AHR) and the AHR nuclear translocator (ARNT), is developmentally regulated in mouse teeth. *Int. J. Dev. Biol.* 46(3):295-300.
- Sakurai, K. and C. Mori. 2000. [Fetal exposure to endocrine disruptors]. *Nippon Rinsho.* 58(12):2508-2513.
- Salisbury, T.B. and J.L. Marcinkiewicz. 2002. In utero and lactational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin and 2,3,4,7,8-pentachlorodibenzofuran reduces growth and disrupts reproductive parameters in female rats. *Biol. Reprod.* 66(6):1621-1626.
- Sans, S. and A. Evans. 2001. Are cardiovascular disease trends driven by gadflies? *Int. J. Epidemiol.* 30(3):624-625.
- Schecter, A. and J.D. Constable. 2006. Commentary: Agent Orange and birth defects in Vietnam. *Int. J. Epidemiol.* 35(5):1230-1232.
- Schecter, A., L. Birnbaum, J.J. Ryan and J.D. Constable. 2006a. Dioxins: an overview. *Environ. Res.* 101(3):419-428.
- Schecter, A., H.T. Quynh, O. Papke, K.C. Tung and J.D. Constable. 2006b. Agent Orange, dioxins, and other chemicals of concern in Vietnam: update 2006. *J. Occup. Environ. Med.* 48(4):408-413.

- Schellart, N.A. and D. Reits. 2008. Influences of perinatal dioxin load to visual motion and oddball stimuli examined with an EEG and MEG analysis. *Clin. Neurophysiol.* 119(7):1486-1495.
- Schulz, T.G., F.A. Wiebel, R. Thier, D. Neubert, D.S. Davies and R.J. Edwards. 2000. Identification of theta-class glutathione S-transferase in liver cytosol of the marmoset monkey. *Arch. Toxicol.* 74(3):133-138.
- Scott, M.A., R.P. Tarara, A.G. Hendrickx, K. Benirschke, J.W. Overstreet and B.L. Lasley. 2001. Exposure to the dioxin 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) induces squamous metaplasia in the endocervix of cynomolgus macaques. *J. Med. Primatol.* 30(3):156-160.
- Seeber, A., P. Demes, K. Golka, E. Kiesswetter, M. Schaper, T.C. van and M. Zupanic. 2000. Subjective symptoms due to solvent mixtures, dioxin, and toluene: impact of exposure versus personality factors. *Neurotoxicology.* 21(5):677-684.
- Senft, A.P., T.P. Dalton, D.W. Nebert, M.B. Genter, A. Puga, R.J. Hutchinson, J.K. Kerzee, S. Uno and H.G. Shertzer. 2002. Mitochondrial reactive oxygen production is dependent on the aromatic hydrocarbon receptor. *Free Radic. Biol. Med.* 33(9):1268-1278.
- Seo, B.W., B.E. Powers, J.J. Widholm and S.L. Schantz. 2000. Radial arm maze performance in rats following gestational and lactational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). *Neurotoxicol. Teratol.* 22(4):511-519.
- Shepherd, D.M., E.A. Dearstyne and N.I. Kerkvliet. 2000. The effects of TCDD on the activation of ovalbumin (OVA)-specific DO11.10 transgenic CD4(+) T cells in adoptively transferred mice. *Toxicol. Sci.* 56(2):340-350.
- Shepherd, D.M., L.B. Steppan, O.R. Hedstrom and N.I. Kerkvliet. 2001. Anti-CD40 Treatment of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-exposed C57Bl/6 mice induces activation of antigen presenting cells yet fails to overcome TCDD-induced suppression of allograft immunity. *Toxicol. Appl. Pharmacol.* 170(1):10-22.
- Sherr, D.H. 2004. 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) and long term immunologic memory. *Toxicol. Sci.* 79(2):211-213.
- Shi, Z., K.E. Valdez, A.Y. Ting, A. Franczak, S.L. Gum and B.K. Petroff. 2007. Ovarian Endocrine Disruption Underlies Premature Reproductive Senescence Following Environmentally Relevant Chronic Exposure to the Aryl Hydrocarbon Receptor Agonist 2,3,7,8-Tetrachlorodibenzo-p-Dioxin. *Biol. Reprod.* 76(2):198-202.
- Shirota, M., T. Kaneko, M. Okuyama, Y. Sakurada, K. Shirota and Y. Matsuki. 2007. Internal dose-effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in gonadotropin-primed weanling rat model. *Arch. Toxicol.* 81(4):261-269.

Shon, Y.H., I.K. Park, I.S. Moon, H.W. Chang, I.K. Park and K.S. Nam. 2002. Effect of chitosan oligosaccharide on 2,3,7,8-tetrachlorodibenzo-p-dioxin-induced oxidative stress in mice. *Biol. Pharm. Bull.* 25(9):1161-1164.

Shridhar, S., A. Farley, R.L. Reid, W.G. Foster and D.A. Van Vugt. 2001. The effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin on corticotrophin-releasing hormone, arginine vasopressin, and pro-opiomelanocortin mRNA levels in the hypothalamus of the cynomolgus monkey. *Toxicol. Sci.* 63(2):181-188.

Signorini, S., P.M. Gerthoux, C. Dassi, M. Cazzaniga, P. Brambilla, N. Vincoli and P. Mocarelli. 2000. Environmental exposure to dioxin: the Seveso experience. *Andrologia.* 32(4-5):263-270.

Sikka, S.C. and R. Wang. 2008. Endocrine disruptors and estrogenic effects on male reproductive axis. *Asian J. Androl.* 10(1):134-145.

Simanainen, U., J.T. Tuomisto, J. Tuomisto and M. Viluksela. 2002. Structure-activity relationships and dose responses of polychlorinated dibenzo-p-dioxins for short-term effects in 2,3,7,8-tetrachlorodibenzo-p-dioxin-resistant and -sensitive rat strains. *Toxicol. Appl. Pharmacol.* 181(1):38-47.

Simanainen, U., J.T. Tuomisto, J. Tuomisto and M. Viluksela. 2003. Dose-response analysis of short-term effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin in three differentially susceptible rat lines. *Toxicol. Appl. Pharmacol.* 187(2):128-136.

Simanainen, U., T. Haavisto, J.T. Tuomisto, J. Paranko, J. Toppari, J. Tuomisto, R.E. Peterson and M. Viluksela. 2004a. Pattern of male reproductive system effects after in utero and lactational 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) exposure in three differentially TCDD-sensitive rat lines. *Toxicol. Sci.* 80(1):101-108.

Simanainen, U., J.T. Tuomisto, R. Pohjanvirta, P. Syrjala, J. Tuomisto and M. Viluksela. 2004b. Postnatal development of resistance to short-term high-dose toxic effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin in TCDD-resistant and -semiresistant rats. *Toxicol. Appl. Pharmacol.* 196(1):11-19.

Singh, K.P., A. Wyman, F.L. Casado, R. Garrett and T.A. Gasiewicz. 2008. Treatment of Mice with the Ah Receptor Agonist and Human Carcinogen Dioxin Results in Altered Numbers and Function of Hematopoietic Stem Cells. *Carcinogenesis.*

Slezak, B.P., J.T. Hamm, J. Reyna, C.H. Hurst and L.S. Birnbaum. 2002. TCDD-mediated oxidative stress in male rat pups following perinatal exposure. *J. Biochem. Mol. Toxicol.* 16(2):49-52.

Smialowicz, R.J. 2002. The rat as a model in developmental immunotoxicology. *Hum. Exp. Toxicol.* 21(9-10):513-519.

- Smialowicz, R.J., D.E. Burgin, W.C. Williams, J.J. Diliberto, R.W. Setzer and L.S. Birnbaum. 2004. CYP1A2 is not required for 2,3,7,8-tetrachlorodibenzo-p-dioxin-induced immunosuppression. *Toxicology*. 197(1):15-22.
- Smialowicz, R.J., M.J. DeVito, W.C. Williams and L.S. Birnbaum. 2008. Relative potency based on hepatic enzyme induction predicts immunosuppressive effects of a mixture of PCDDS/PCDFS and PCBS. *Toxicol. Appl. Pharmacol.* 227(3):477-484.
- Smith, A.G., M. Hansson, A. Rodriguez-Pichardo, A. Ferrer-Dufol, R.T. Neubert, J.R. Webb, C. Rappe and D. Neubert. 2008. Polychlorinated dibenzo-p-dioxins and the human immune system: 4 studies on two Spanish families with increased body burdens of highly chlorinated PCDDs. *Environ. Int.* 34(3):330-344.
- Sone, H. 2000. [Endocrine disrupter and reproductive disorders in women]. *Nippon Rinsho*. 58(12):2521-2526.
- Starek, A. 2005. [Health risk related to municipal waste incineration]. *Med. Pr.* 56(1):55-62.
- Steenland, K., G. Calvert, N. Ketchum and J. Michalek. 2001. Dioxin and diabetes mellitus: an analysis of the combined NIOSH and Ranch Hand data. *Occup. Environ. Med.* 58(10):641-648.
- Steenland, K., P. Bertazzi, A. Baccarelli and M. Kogevinas. 2004. Dioxin revisited: developments since the 1997 IARC classification of dioxin as a human carcinogen. *Environ. Health Perspect.* 112(13):1265-1268.
- Stefankiewicz, J., R. Kurzawa and M. Drozdziak. 2006. [Environmental factors disturbing fertility of men]. *Ginekol. Pol.* 77(2):163-169.
- Sterling, J.B. and C.W. Hanke. 2005. Dioxin toxicity and chloracne in the Ukraine. *J. Drugs Dermatol.* 4(2):148-150.
- Stone, R. 2007. Epidemiology. Agent Orange's bitter harvest. *Science*. 315(5809):176-179.
- Sugihara, K., S. Kitamura, T. Yamada, S. Ohta, K. Yamashita, M. Yasuda and Y. Fujii-Kuriyama. 2001. Aryl hydrocarbon receptor (AhR)-mediated induction of xanthine oxidase/xanthine dehydrogenase activity by 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Biochem. Biophys. Res. Commun.* 281(5):1093-1099.
- Sugita-Konishi, Y., K. Kobayashi, H. Naito, K. Miura and Y. Suzuki. 2003. Effect of lactational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin on the susceptibility to *Listeria* infection. *Biosci. Biotechnol. Biochem.* 67(1):89-93.

Svensson, C., A.E. Silverstone, Z.W. Lai and K. Lundberg. 2002. Dioxin-induced adseverin expression in the mouse thymus is strictly regulated and dependent on the aryl hydrocarbon receptor. *Biochem. Biophys. Res. Commun.* 291(5):1194-1200.

Sweeney, T. 2002. Is exposure to endocrine disrupting compounds during fetal/post-natal development affecting the reproductive potential of farm animals? *Domest. Anim Endocrinol.* 23(1-2):203-209.

Sweeney, M.H. and P. Mocarelli. 2000. Human health effects after exposure to 2,3,7,8-TCDD. *Food Addit. Contam.* 17(4):303-316.

Tajimi, M., R. Uehara, M. Watanabe, I. Oki, T. Ojima and Y. Nakamura. 2005. Relationship of PCDD/F and Co-PCB concentrations in breast milk with infant birthweights in Tokyo, Japan. *Chemosphere.* 61(3):383-388.

Takagi, T.N., K.A. Matsui, K. Yamashita, H. Ohmori and M. Yasuda. 2000. Pathogenesis of cleft palate in mouse embryos exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). *Teratog. Carcinog. Mutagen.* 20(2):73-86.

Takemoto, K., M. Nakajima, Y. Fujiki, M. Katoh, F.J. Gonzalez and T. Yokoi. 2004. Role of the aryl hydrocarbon receptor and Cyp1b1 in the antiestrogenic activity of 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Arch. Toxicol.* 78(6):309-315.

Tang, N.J., J. Liu, P.J. Coenraads, L. Dong, L.J. Zhao, S.W. Ma, X. Chen, C.M. Zhang, X.M. Ma, W.G. Wei, P. Zhang and Z.P. Bai. 2008. Expression of AhR, CYP1A1, GSTA1, c-fos and TGF- $\alpha$  in skin lesions from dioxin-exposed humans with chloracne. *Toxicol. Lett.* 177(3):182-187.

Tani, Y., R.R. Maronpot, J.F. Foley, J.K. Haseman, N.J. Walker and A. Nyska. 2004. Follicular epithelial cell hypertrophy induced by chronic oral administration of 2,3,7,8-tetrachlorodibenzo-p-dioxin in female Harlan Sprague-Dawley rats. *Toxicol. Pathol.* 32(1):41-49.

ten Tusscher, G.W. and J.G. Koppe. 2004. Perinatal dioxin exposure and later effects--a review. *Chemosphere.* 54(9):1329-1336.

ten Tusscher, G.W., J. de Weerd, C.M. Roos, R.W. Griffioen, F.H. De Jongh, M. Westra, J.W. van der Slikke, J. Oosting, K. Olie and J.G. Koppe. 2001. Decreased lung function associated with perinatal exposure to Dutch background levels of dioxins. *Acta Paediatr.* 90(11):1292-1298.

ten Tusscher, G.W., H.J. Guchelaar, J. Koch, A. Ilsen, T. Vulsma, M. Westra, J.W. van der Slikke, K. Olie and J.G. Koppe. 2008. Perinatal dioxin exposure, cytochrome P-450 activity, liver functions and thyroid hormones at follow-up after 7-12 years. *Chemosphere.* 70(10):1865-1872.



Teske, S., A.A. Bohn, J.F. Regal, J.J. Neumiller and B.P. Lawrence. 2005. Activation of the aryl hydrocarbon receptor increases pulmonary neutrophilia and diminishes host resistance to influenza A virus. *Am. J. Physiol Lung Cell Mol. Physiol.* 289(1):L111-L124.

Teske, S., A.A. Bohn, J.P. Hogaboam and B.P. Lawrence. 2008. Aryl hydrocarbon receptor targets pathways extrinsic to bone marrow cells to enhance neutrophil recruitment during influenza virus infection. *Toxicol. Sci.* 102(1):89-99.

Theobald, H.M., B.L. Roman, T.M. Lin, S. Ohtani, S.W. Chen and R.E. Peterson. 2000. 2,3,7,8-tetrachlorodibenzo-p-dioxin inhibits luminal cell differentiation and androgen responsiveness of the ventral prostate without inhibiting prostatic 5alpha-dihydrotestosterone formation or testicular androgen production in rat offspring. *Toxicol. Sci.* 58(2):324-338.

Thomae, T.L., E. Glover and C.A. Bradfield. 2004. A maternal Ahr null genotype sensitizes embryos to chemical teratogenesis. *J. Biol. Chem.* 279(29):30189-30194.

Thomae, T.L., E.A. Stevens, A.L. Liss, N.R. Drinkwater and C.A. Bradfield. 2006. The teratogenic sensitivity to 2,3,7,8-tetrachlorodibenzo-p-dioxin is modified by a locus on mouse chromosome 3. *Mol. Pharmacol.* 69(3):770-775.

Thomke, F., D. Jung, R. Besser, R. Roder, J. Konietzko and H.C. Hopf. 2002. Cranial nerve function in workers exposed to polychlorinated dioxins and furans. *Acta Neurol. Scand.* 106(3):155-158.

Thornton, A.S., Y. Oda, G.R. Stuart, B.W. Glickman and J.G. de Boer. 2001. Mutagenicity of TCDD in Big Blue transgenic rats. *Mutat. Res.* 478(1-2):45-50.

Thornton, A.S., Y. Oda, G.R. Stuart, J. Holcroft and J.G. de Boer. 2004. The dioxin TCDD protects against aflatoxin-induced mutation in female rats, but not in male rats. *Mutat. Res.* 561(1-2):147-152.

Thurmond, T.S. and T.A. Gasiewicz. 2000. A single dose of 2,3,7,8-tetrachlorodibenzo-p-dioxin produces a time- and dose-dependent alteration in the murine bone marrow B-lymphocyte maturation profile. *Toxicol. Sci.* 58(1):88-95.

Timms, B.G., R.E. Peterson and F.S. vom Saal. 2002. 2,3,7,8-tetrachlorodibenzo-p-dioxin interacts with endogenous estradiol to disrupt prostate gland morphogenesis in male rat fetuses. *Toxicol. Sci.* 67(2):264-274.

Tohyama, C. 2006. [Exposure to dioxins in the environment and their health risk]. *Nippon Eiseigaku Zasshi.* 61(1):5-10.

Tokuda, N., Y. Arudchelvan, T. Sawada, Y. Adachi, T. Fukumoto, M. Yasuda, H. Sumida, S. Shioda, T. Fukuda, A. Arima and S. Kubota. 2006. PACAP receptor (PAC1-R) expression in rat and rhesus monkey thymus. *Ann. N. Y. Acad. Sci.* 1070:581-585.

- Tomita, S., H.B. Jiang, T. Ueno, S. Takagi, K. Tohi, S. Maekawa, A. Miyatake, A. Furukawa, F.J. Gonzalez, J. Takeda, Y. Ichikawa and Y. Takahama. 2003. T cell-specific disruption of arylhydrocarbon receptor nuclear translocator (Arnt) gene causes resistance to 2,3,7,8-tetrachlorodibenzo-p-dioxin-induced thymic involution. *J. Immunol.* 171(8):4113-4120.
- Trasler, J. 2000. Paternal exposures: altered sex ratios. *Teratology.* 62(2):77-78.
- Tsuchiya, M., H. Imai, H. Nakao, Y. Kuroda and T. Katoh. 2003. [Potential links between endocrine disrupting compounds and endometriosis]. *J. UOEH.* 25(3):307-316.
- Tsuda, H., A. Naito, C.K. Kim, K. Fukamachi, H. Nomoto and M.A. Moore. 2003. Carcinogenesis and its modification by environmental endocrine disruptors: in vivo experimental and epidemiological findings. *Jpn. J. Clin. Oncol.* 33(6):259-270.
- Tsuneoka, Y., T.P. Dalton, M.L. Miller, C.D. Clay, H.G. Shertzer, G. Talaska, M. Medvedovic and D.W. Nebert. 2003. 4-aminobiphenyl-induced liver and urinary bladder DNA adduct formation in Cyp1a2(-/-) and Cyp1a2(+/-) mice. *J. Natl. Cancer Inst.* 95(16):1227-1237.
- Tsutsumi, O. 2000. [Effects of endocrine disruptors on preimplantation embryo development]. *Nippon Rinsho.* 58(12):2464-2468.
- Tsutsumi, O., M. Momoeda, Y. Takai, M. Ono and Y. Taketani. 2000. Breast-fed infants, possibly exposed to dioxins in milk, have unexpectedly lower incidence of endometriosis in adult life. *Int. J. Gynaecol. Obstet.* 68(2):151-153.
- Tuomisto, J. 2001. [Are dioxins a health problem in Finland?]. *Duodecim.* 117(3):245-246.
- Tuomisto, J.T., J. Pekkanen, H. Kiviranta, E. Tukiainen, T. Vartiainen and J. Tuomisto. 2004. Soft-tissue sarcoma and dioxin: A case-control study. *Int. J. Cancer.* 108(6):893-900.
- Uenotsuchi, T., K. Nakayama, S. Asahi, O. Takamichi, T. Akimoto, M. Muto, K. Kiyomizu, I. Katayama, Y. Kanzaki, Y. Kanagawa, T. Imamura and M. Furue. 2005. [Skin symptoms in Yusho patients related to blood dioxin level]. *Fukuoka Igaku Zasshi.* 96(5):164-168.
- Uno, S., T.P. Dalton, P.R. Sinclair, N. Gorman, B. Wang, A.G. Smith, M.L. Miller, H.G. Shertzer and D.W. Nebert. 2004. Cyp1a1(-/-) male mice: protection against high-dose TCDD-induced lethality and wasting syndrome, and resistance to intrahepatocyte lipid accumulation and uroporphyrin. *Toxicol. Appl. Pharmacol.* 196(3):410-421.

- Urban, P., D. Pelclova, E. Lukas, K. Kupka, J. Preiss, Z. Fenclova and Z. Smerhovsky. 2007. Neurological and neurophysiological examinations on workers with chronic poisoning by 2,3,7,8-TCDD: follow-up 35 years after exposure. *Eur. J. Neurol.* 14(2):213-218.
- Valic, E., O. Jahn, O. Papke, R. Winker, C. Wolf and W.H. Rudiger. 2004. Transient increase in micronucleus frequency and DNA effects in the comet assay in two patients after intoxication with 2,3,7,8-tetrachlorodibenzo- p-dioxin. *Int. Arch. Occup. Environ. Health.* 77(5):301-306.
- van Leeuwen, F.X., M. Feeley, D. Schrenk, J.C. Larsen, W. Farland and M. Younes. 2000. Dioxins: WHO's tolerable daily intake (TDI) revisited. *Chemosphere.* 40(9-11):1095-1101.
- Van Maele-Fabry, G., V. Libotte, J. Willems and D. Lison. 2006. Review and meta-analysis of risk estimates for prostate cancer in pesticide manufacturing workers. *Cancer Causes Control.* 17(4):353-373.
- Vezina, C.M., S.H. Allgeier, R.W. Moore, T.M. Lin, J.C. Bemis, H.A. Hardin, T.A. Gasiewicz and R.E. Peterson. 2008. Dioxin Causes Ventral Prostate Agenesis by Disrupting Dorsoventral Patterning in Developing Mouse Prostate. *Toxicol. Sci.* 106(2):488-496.
- Viluksela, M., Y. Bager, J.T. Tuomisto, G. Scheu, M. Unkila, R. Pohjanvirta, S. Flodstrom, V.M. Kosma, J. Maki-Paakkanen, T. Vartiainen, C. Klimm, K.W. Schramm, L. Warngard and J. Tuomisto. 2000. Liver tumor-promoting activity of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in TCDD-sensitive and TCDD-resistant rat strains. *Cancer Res.* 60(24):6911-6920.
- Viluksela, M., A. Raasmaja, M. Lebofsky, B.U. Stahl and K.K. Rozman. 2004. Tissue-specific effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) on the activity of 5'-deiodinases I and II in rats. *Toxicol. Lett.* 147(2):133-142.
- Vogel, C.F., Y. Zhao, P. Wong, N.F. Young and F. Matsumura. 2003. The use of c-src knockout mice for the identification of the main toxic signaling pathway of TCDD to induce wasting syndrome. *J. Biochem. Mol. Toxicol.* 17(6):305-315.
- Vogel, C.F., E. Sciallo and F. Matsumura. 2004. Activation of inflammatory mediators and potential role of ah-receptor ligands in foam cell formation. *Cardiovasc. Toxicol.* 4(4):363-373.
- Vogel, C.F., N. Nishimura, E. Sciallo, P. Wong, W. Li and F. Matsumura. 2007. Modulation of the chemokines KC and MCP-1 by 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in mice. *Arch. Biochem. Biophys.* 461(2):169-175.
- Vorderstrasse, B.A. and N.I. Kerkvliet. 2001. 2,3,7,8-Tetrachlorodibenzo-p-dioxin affects the number and function of murine splenic dendritic cells and their expression of accessory molecules. *Toxicol. Appl. Pharmacol.* 171(2):117-125.

Vorderstrasse, B.A. and B.P. Lawrence. 2006. Protection against lethal challenge with *Streptococcus pneumoniae* is conferred by aryl hydrocarbon receptor activation but is not associated with an enhanced inflammatory response. *Infect. Immun.* 74(10):5679-5686.

Vorderstrasse, B.A., L.B. Steppan, A.E. Silverstone and N.I. Kerkvliet. 2001. Aryl hydrocarbon receptor-deficient mice generate normal immune responses to model antigens and are resistant to TCDD-induced immune suppression. *Toxicol. Appl. Pharmacol.* 171(3):157-164.

Vorderstrasse, B.A., A.A. Bohn and B.P. Lawrence. 2003a. Examining the relationship between impaired host resistance and altered immune function in mice treated with TCDD. *Toxicology.* 188(1):15-28.

Vorderstrasse, B.A., E.A. Dearstyne and N.I. Kerkvliet. 2003b. Influence of 2,3,7,8-tetrachlorodibenzo-p-dioxin on the antigen-presenting activity of dendritic cells. *Toxicol. Sci.* 72(1):103-112.

Vorderstrasse, B.A., J.A. Cundiff and B.P. Lawrence. 2004. Developmental Exposure to the Potent Aryl Hydrocarbon Receptor Agonist 2,3,7,8-Tetrachlorodibenzo-p-Dioxin Impairs the Cell-Mediated Immune Response to Infection with Influenza A Virus, but Enhances Elements of Innate Immunity. *J. Immunotoxicol.* 1(2):103-112.

Vorderstrasse, B.A., J.A. Cundiff and B.P. Lawrence. 2006. A dose-response study of the effects of prenatal and lactational exposure to TCDD on the immune response to influenza a virus. *J. Toxicol. Environ. Health A.* 69(6):445-463.

Vreugdenhil, H.J., C.I. Lanting, P.G. Mulder, E.R. Boersma and N. Weisglas-Kuperus. 2002. Effects of prenatal PCB and dioxin background exposure on cognitive and motor abilities in Dutch children at school age. *J. Pediatr.* 140(1):48-56.

Vreugdenhil, H.J., P.G. Mulder, H.H. Emmen and N. Weisglas-Kuperus. 2004. Effects of perinatal exposure to PCBs on neuropsychological functions in the Rotterdam cohort at 9 years of age. *Neuropsychology.* 18(1):185-193.

Vulsma, T. 2000. Impact of exposure to maternal PCBs and dioxins on the neonate's thyroid hormone status. *Epidemiology.* 11(3):239-241.

Wagner, E., M.M. Frank and R.J. Smialowicz. 2001. 2,3,7,8-tetrachlorodibenzo-p-dioxin and natural immunity: lack of an effect on the complement system in a guinea pig model. *Toxicology.* 159(1-2):107-113.

Walisser, J.A., M.K. Bunger, E. Glover, E.B. Harstad and C.A. Bradfield. 2004. Patent ductus venosus and dioxin resistance in mice harboring a hypomorphic Arnt allele. *J. Biol. Chem.* 279(16):16326-16331.

- Walisser, J.A., M.K. Bunger, E. Glover and C.A. Bradfield. 2004. Gestational exposure of Ahr and Arnt hypomorphs to dioxin rescues vascular development. *Proc. Natl. Acad. Sci. U. S. A.* 101(47):16677-16682.
- Walker, D.B., W.C. Williams, C.B. Copeland and R.J. Smialowicz. 2004. Persistent suppression of contact hypersensitivity, and altered T-cell parameters in F344 rats exposed perinatally to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). *Toxicology*. 197IM(1):57-66.
- Walker, N.J., M.E. Wyde, L.J. Fischer, A. Nyska and J.R. Bucher. 2006. Comparison of chronic toxicity and carcinogenicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in 2-year bioassays in female Sprague-Dawley rats. *Mol. Nutr. Food Res.* 50(10):934-944.
- Wang, S.L., P.H. Su, S.B. Jong, Y.L. Guo, W.L. Chou and O. Papke. 2005. In utero exposure to dioxins and polychlorinated biphenyls and its relations to thyroid function and growth hormone in newborns. *Environ. Health Perspect.* 113(11):1645-1650.
- Wang, S.L., Y.C. Chang, H.R. Chao, C.M. Li, L.A. Li, L.Y. Lin and O. Papke. 2006. Body burdens of polychlorinated dibenzo-p-dioxins, dibenzofurans, and biphenyls and their relations to estrogen metabolism in pregnant women. *Environ. Health Perspect.* 114(5):740-745.
- Wang, J., Y.Y. Zhao, H. Liu, Y.H. Li, G.Y. Li, K.L. Sun and L. Guo. 2007. [The role of insulin-like growth factor-2 gene differentially methylated regions in TCDD-induced malformation]. *Zhonghua Yi. Xue. Yi. Chuan Xue. Za Zhi.* 24(2):162-166.
- Warner, M., S. Samuels, P. Mocarelli, P.M. Gerthoux, L. Needham, D.G. Patterson, Jr. and B. Eskenazi. 2004. Serum dioxin concentrations and age at menarche. *Environ. Health Perspect.* 112(13):1289-1292.
- Warren, T.K., K.A. Mitchell and B.P. Lawrence. 2000. Exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) suppresses the humoral and cell-mediated immune responses to influenza A virus without affecting cytolytic activity in the lung. *Toxicol. Sci.* 56(1):114-123.
- Weinstein, D.A., R.M. Gogal, Jr., A. Mustafa, M.R. Prater and S.D. Holladay. 2008. Mid-gestation exposure of C57BL/6 mice to 2,3,7,8-tetrachlorodibenzo-p-dioxin causes postnatal morphologic changes in the spleen and liver. *Toxicol. Pathol.* 36(5):705-713.
- Weir, E. 2005. Dioxin contamination and poisoning. *CMAJ.* 172(7):873.
- Weisglas-Kuperus, N., H.J. Vreugdenhil and P.G. Mulder. 2004. Immunological effects of environmental exposure to polychlorinated biphenyls and dioxins in Dutch school children. *Toxicol. Lett.* 149IM(1-3):281-285.
- Weiss, B. 2002. Sexually dimorphic nonreproductive behaviors as indicators of endocrine disruption. *Environ. Health Perspect.* 110 Suppl 3:387-391.

Widholm, J.J., B.W. Seo, B.J. Strupp, R.F. Seegal and S.L. Schantz. 2003. Effects of perinatal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin on spatial and visual reversal learning in rats. *Neurotoxicol. Teratol.* 25(4):459-471.

Wigle, D.T., T.E. Arbuckle, M.C. Turner, A. Berube, Q. Yang, S. Liu and D. Krewski. 2008. Epidemiologic evidence of relationships between reproductive and child health outcomes and environmental chemical contaminants. *J. Toxicol. Environ. Health B Crit Rev.* 11(5-6):373-517.

Wilhelm, M., J. Wittsiepe, F. Lemm, U. Ranft, U. Kramer, P. Furst, S.C. Roseler, M. Greshake, M. Imohl, G. Eberwein, K. Rauchfuss, M. Kraft and G. Winneke. 2008. The Duisburg birth cohort study: influence of the prenatal exposure to PCDD/Fs and dioxin-like PCBs on thyroid hormone status in newborns and neurodevelopment of infants until the age of 24 months. *Mutat. Res.* 659(1-2):83-92.

Wu, C.H., H.L. Chen, H.J. Su, C.C. Lee, K.T. Shen, W.L. Ho, S.Y. Ho, Y.S. Ho and Y.J. Wang. 2004a. The topical application of 2,3,7,8-tetrachlorodibenzo-p-dioxin lacks skin tumor-promoting potency but induces hepatic injury and tumor necrosis factor-alpha expression in ICR male mice. *Food Chem. Toxicol.* 42(8):1217-1225.

Wu, Q., S. Ohsako, R. Ishimura, J.S. Suzuki and C. Tohyama. 2004b. Exposure of mouse preimplantation embryos to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) alters the methylation status of imprinted genes H19 and Igf2. *Biol. Reprod.* 70(6):1790-1797.

Wyde, M.E., J. Seely, G.W. Lucier and N.J. Walker. 2000. Toxicity of chronic exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin in diethylnitrosamine-initiated ovariectomized rats implanted with subcutaneous 17 beta-estradiol pellets. *Toxicol. Sci.* 54(2):493-499.

Wyde, M.E., V.A. Wong, A.H. Kim, G.W. Lucier and N.J. Walker. 2001a. Induction of hepatic 8-oxo-deoxyguanosine adducts by 2,3,7,8-tetrachlorodibenzo-p-dioxin in Sprague-Dawley rats is female-specific and estrogen-dependent. *Chem. Res. Toxicol.* 14(7):849-855.

Wyde, M.E., S.R. Eldridge, G.W. Lucier and N.J. Walker. 2001b. Regulation of 2,3,7,8-tetrachlorodibenzo-p-dioxin-induced tumor promotion by 17 beta-estradiol in female Sprague-Dawley rats. *Toxicol. Appl. Pharmacol.* 173(1):7-17.

Wyde, M.E., T. Cambre, M. Lebetkin, S.R. Eldridge and N.J. Walker. 2002. Promotion of altered hepatic foci by 2,3,7,8-tetrachlorodibenzo-p-dioxin and 17beta-estradiol in male Sprague-Dawley rats. *Toxicol. Sci.* 68(2):295-303.

Wyde, M.E., A.P. Braen, M. Hejtmancik, J.D. Johnson, J.D. Toft, J.C. Blake, S.D. Cooper, J. Mahler, M. Vallant, J.R. Bucher and N.J. Walker. 2004. Oral and dermal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) induces cutaneous papillomas and squamous cell carcinomas in female hemizygous Tg.AC transgenic mice. *Toxicol. Sci.* 82(1):34-45.

- Yamada, T., K. Mishima, K. Fujiwara, H. Imura and T. Sugahara. 2006. Cleft lip and palate in mice treated with 2,3,7,8-tetrachlorodibenzo-p-dioxin: a morphological in vivo study. *Congenit. Anom. (Kyoto)*. 46(1):21-25.
- Yamamoto, M. 2002. [Epidemiological studies on the etiology of biliary tract cancers]. *Nippon Eiseigaku Zasshi*. 57(1):73-77.
- Yang, C.Y., M.L. Yu, H.R. Guo, T.J. Lai, C.C. Hsu, G. Lambert and Y.L. Guo. 2005a. The endocrine and reproductive function of the female Yucheng adolescents prenatally exposed to PCBs/PCDFs. *Chemosphere*. 61(3):355-360.
- Yang, Y.M., D.Y. Huang, G.F. Liu, J.C. Zhong, K. Du, Y.F. Li and X.H. Song. 2005b. Inhibitory effects of vitamin A on TCDD-induced cytochrome P-450 1A1 enzyme activity and expression. *Toxicol. Sci.* 85(1):727-734.
- Yang, M., M.S. Park and H.S. Lee. 2006. Endocrine disrupting chemicals: human exposure and health risks. *J. Environ. Sci. Health C Environ. Carcinog. Ecotoxicol. Rev.* 24(2):183-224.
- Yasuda, I., M. Yasuda, H. Sumida, H. Tsusaki, A. Arima, T. Ihara, S. Kubota, K. Asaoka, K. Tsuga and Y. Akagawa. 2005. In utero and lactational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) affects tooth development in rhesus monkeys. *Reprod. Toxicol.* 20(1):21-30.
- Ye, L. and L.K. Leung. 2008. Effect of dioxin exposure on aromatase expression in ovariectomized rats. *Toxicol. Appl. Pharmacol.* 229(1):102-108.
- Yellon, S.M., D. Singh, T.M. Garrett, O.R. Fagoaga and S.L. Nehlsen-Cannarella. 2000. Reproductive, neuroendocrine, and immune consequences of acute exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin in the Siberian hamster. *Biol. Reprod.* 63(2):538-543.
- Yonemoto, J. 2000. The effects of dioxin on reproduction and development. *Ind. Health.* 38(3):259-268.
- Yoon, B.I., T. Inoue and T. Kaneko. 2000. Teratological effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD): induction of cleft palate in the ddY and C57BL/6 mouse. *J. Vet. Sci.* 1(2):113-119.
- Yoon, B.I., Y. Hirabayashi, Y. Ogawa, J. Kanno, T. Inoue and T. Kaneko. 2001a. Hemopoietic cell kinetics after intraperitoneal single injection of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in mice. *Chemosphere*. 43(4-7):819-822.
- Yoon, B.I., Y. Hirabayashi, T. Kaneko, Y. Kodama, J. Kanno, J. Yodoi, D.Y. Kim and T. Inoue. 2001b. Transgene expression of thioredoxin (TRX/ADF) protects against 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-induced hematotoxicity. *Arch. Environ. Contam Toxicol.* 41(2):232-236.

- Yoon, C.Y., M. Park, B.H. Kim, J.Y. Park, M.S. Park, Y.K. Jeong, H. Kwon, H.K. Jung, H. Kang, Y.S. Lee and B.J. Lee. 2006. Gene expression profile by 2,3,7,8-tetrachlorodibenzo-p-dioxin in the liver of wild-type (AhR+/+) and aryl hydrocarbon receptor-deficient (AhR-/-) mice. *J. Vet. Med. Sci.* 68(7):663-668.
- Yoshida, R. and Y. Ogawa. 2000. Oxidative stress induced by 2,3,7,8-tetrachlorodibenzo-p-dioxin: an application of oxidative stress markers to cancer risk assessment of dioxins. *Ind. Health.* 38(1):5-14.
- Yoshikawa, Y. 2005. [Experimental behavioral tests using monkey and rat offspring born from mothers exposed perinatally to EDCs]. *Nihon Shinkei Seishin Yakurigaku Zasshi.* 25(3):115-124.
- Yoshimura, T., J. Nakano, M. Okita, Y. Kikuchi, T. Kitamura and T. Ishikawa. 2005. [Blood cell count and blood chemical analysis in Yusho patients]. *Fukuoka Igaku Zasshi.* 96(5):192-203.
- Yoshizawa, K., T. Marsh, J.F. Foley, B. Cai, S. Peddada, N.J. Walker and A. Nyska. 2005. Mechanisms of exocrine pancreatic toxicity induced by oral treatment with 2,3,7,8-tetrachlorodibenzo-p-dioxin in female Harlan Sprague-Dawley Rats. *Toxicol. Sci.* 85(1):594-606.
- Yoshizawa, K., A. Heatherly, D.E. Malarkey, N.J. Walker and A. Nyska. 2007. A critical comparison of murine pathology and epidemiological data of TCDD, PCB126, and PeCDF. *Toxicol. Pathol.* 35(7):865-879.
- Young, A.L. and J.L. Regens. 2005. Serum TCDD levels and health effects from elevated exposure: medical and scientific evidence. *Environ. Sci. Pollut. Res. Int.* 12(1):1-4.
- Zafar, M.B. and M.K. Terris. 2001. Prostate cancer detection in veterans with a history of Agent Orange exposure. *J. Urol.* 166(1):100-103.
- Zetterstrom, R. 2004. Persistent organic chlorines as a threat to mother and child health. *Acta Paediatr.* 93(8):1012-1014.
- Zhu, B.T., M.A. Gallo, C.W. Burger, Jr., R.J. Meeker, M.X. Cai, S. Xu and A.H. Conney. 2008. Effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin administration and high-fat diet on the body weight and hepatic estrogen metabolism in female C3H/HeN mice. *Toxicol. Appl. Pharmacol.* 226(2):107-118.
- Zhuchenko, N.A., N.V. Umnova, V.S. Rumak, I. Revazova, I.E. Sidorova, L.V. Khripach, D.I. Lazarenko and G.A. Sofronov. 2006. [The congenital morphogenetic variants and genetic polymorphism of the system of xenobiotic detoxication in children living in dioxin-contaminated regions of South Vietnam]. *Vestn. Ross. Akad. Med. Nauk*(7):3-10.
- Zocchetti, C., A. Pesatori and D. Consonni. 2003. [Occupational epidemiology: from analysis of the apparent to investigation of the unknown]. *Med. Lav.* 94(1):92-100.