

9. REFERENCES

- Aaron CK. 2007. Organophosphates and carbamates. In: Shannon MW, Borron SW, Burns MJ, eds. Haddad and Winchester's clinical management of poisoning and drug overdose. Philadelphia, PA: Saunders Elsevier, 1171-1184.
- Abadin HG, Chou CSJ, Llados FT. 2007. Health effects classification and its role in the derivation of minimal risk levels: Immunological effects. *Regul Toxicol Pharmacol* 47:249-256.
- Abou-Donia MB. 1995. Organophosphorus pesticides. In: Chang LW, Dyer RS, Eds. Handbook of neurotoxicology. New York, NY: Marcel Dekker, 419-473.
- Abou-Donia MB, Lapadula DM. 1990. Mechanisms of organophosphorus ester-induced delayed neurotoxicity: Type I and Type II. *Ann Rev Pharmacol Toxicol* 30:405-440.
- ACGIH. 2012. Parathion. Threshold limit values for chemical substances and physical agents and biological exposure indices. Cincinnati, OH: American Conference of Governmental Industrial Hygienists, 46, 109.
- Adhya TK, Barik S, Sethunathan N. 1981c. Hydrolysis of selected organophosphorus insecticides by two bacteria isolated from flooded soil. *J Appl Bacteriol* 50:167-172.
- Adhya TK, Subhakar B, Sethunathan N. 1981b. Fate of fenitrothion, methyl parathion, and parathion in anoxic sulfur-containing soil systems. *Pestic Biochem Physiol* 16(1):14-20.
- Adhya TK, Sudhakar B, Sethunathan N. 1981a. Stability of commercial formulation of fenitrothion, methyl parathion and parathion in anaerobic soils. *J Agric Food Chem* 29(1):90-93.
- Adigun AA, Wrench N, Seidler FJ, et al. 2010. Neonatal organophosphorus pesticide exposure alters the developmental trajectory of cell-signaling cascades controlling metabolism: Differential effects of diazinon and parathion. *Environ Health Perspect* 118(2):210-215.
- Adlercreutz H. 1995. Phytoestrogens: Epidemiology and a possible role in cancer protection. *Environ Health Perspect Suppl* 103(7):103-112.
- AIHA. 2011. Emergency response planning guidelines (ERPG). Fairfax, VA: American Industrial Hygiene Association.
<http://www.aiha.org/INSIDEAIHA/GUIDELINEDEVELOPMENT/ERPG/Pages/default.aspx>. April 24, 2013.
- Alavanja MCR, Sandler DP, McMaster SB, et al. 1996. The Agricultural Health Study. *Environ Health Perspect* 104(4):362-369.
- Altman PL, Dittmer DS. 1974. Biological handbooks: Biology data book. Vol. III. 2nd ed. Bethesda, MD: Fed Am Soc Exp Biol.
- Andersen ME, Krishnan K. 1994. Relating *in vitro* to *in vivo* exposures with physiologically based tissue dosimetry and tissue response models. In: Salem H, ed. Animal test alternatives: Refinement, reduction, and replacement. New York, NY: Marcel Dekker, Inc., 9-25.

9. REFERENCES

- Andersen ME, Clewell HJ, Gargas ML, et al. 1987. Physiologically based pharmacokinetics and the risk assessment process for methylene chloride. *Toxicol Appl Pharmacol* 87(2):185-205.
- AOAC. 1990a. Organophosphorus pesticide residues. Sweep codistillation method. In: Helrich K, ed. AOAC official methods of analysis. 15th ed. Arlington, VA: Association of Official Analytical Chemists, 287-289.
- AOAC. 1990b. Pesticide and industrial chemical residues. In: Helrich K, ed. Official methods of analysis of the Association of Official Analytical Chemists. 15th ed. Arlington, VA: Association of Official Analytical Chemists, Inc., 274-282.
- AOAC. 1990c. Organophosphorus pesticide residues. Single sweep oscillographic polarographic confirmatory method. In: Helrich K, ed. Official methods of analysis of the Association of Official Analytical Chemists. 15th ed. Arlington, VA: Association of Analytical Chemists, Inc., 289-290.
- Arcury TA, Grzywacz JG, Barr DB, et al. 2007. Pesticide urinary metabolite levels of children in eastern North Carolina farmworker households. *Environ Health Perspect* 115(8):1254-1260.
- Arterberry JD, Durham WF, Elliott JW, et al. 1961. Exposure to parathion. Measurement by blood cholinesterase level and urinary p-nitrophenol excretion. *Arch Environ Health* 3:476-485.
- Atkinson JE, Bolte HF, Rubin LF, et al. 1994. Assessment of ocular toxicity in dogs during 6 months' exposure to a potent organophosphate. *J Appl Toxicol* 14(2):145-152.
- ATSDR. 1989. Decision guide for identifying substance-specific data needs related to toxicological profiles; Notice. *Fed Regist* 54(174):37618-37634.
- ATSDR. 2011. Medical Management Guidelines for parathion. Agency for Toxic Substances and Disease Registry. <https://www.atsdr.cdc.gov/mhmi/mmg48.pdf>. November 7, 2016.
- ATSDR. 2015. Parathion. Full SPL data. Substance priority list (SPL) resource page. Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention. <http://www.atsdr.cdc.gov/SPL/resources>. July 6, 2016.
- Atterberry TT, Burnett WT, Chambers JE. 1997. Age-related differences in parathion and chlorpyrifos toxicity in male rats: Target and nontarget esterase sensitivity and cytochrome P450-mediated metabolism. *Toxicol Appl Pharmacol* 147(2):411-418.
- Bajgar J. 2004. Organophosphates/nerve agent poisoning: Mechanism of action, diagnosis, prophylaxis, and treatment. *Adv Clin Chem* 38:151-216.
- Barnes DG, Dourson M. 1988. Reference dose (RfD): Description and use in health risk assessments. *Regul Toxicol Pharmacol* 8(4):471-486.
- Barnes JM, Denz FA. 1951. The chronic toxicity of *p*-nitrophenyl diethyl thiophosphate (E. 605); a long-term feeding experiment with rats. *J Hyg* 49(4):430-441.
- Bass SW, Triolo AJ, Coon JM. 1972. Effect of DDT on the toxicity and metabolism of parathion in mice. *Toxicol Appl Pharmacol* 22(4):684-693.

9. REFERENCES

- Beard JD, Umbach DM, Hoppin JA, et al. 2014. Pesticide exposure and depression among male private pesticide applicators in the Agricultural Health Study. *Environ Health Perspect* 122(9):984-991. 10.1289/ehp.1307450.
- Benke GM, Murphy SD. 1974. Anticholinesterase action of methyl parathion, parathion and azinphosmethyl in mice and fish: Onset and recovery of inhibition. *Bull Environ Contam Toxicol* 12(1):117-122.
- Benke GM, Murphy SD. 1975. The influence of age on the toxicity and metabolism of methyl parathion and parathion in male and female rats. *Toxicol Appl Pharmacol* 31(2):254-269.
- Berger GS, ed. 1994. Epidemiology of endometriosis. In: *Endometriosis: Modern surgical management of endometriosis*. New York, NY: Springer-Verlag, 3-7.
- Besser R, Gutmann L, Weilemann LS. 1993. Polyneuropathy following parathion poisoning. *J Neurol Neurosurg Psychiatry* 56(10):1135-1136.
- Bird SB, Sutherland TD, Gresham C, et al. 2008. OpdA, a bacterial organophosphorus hydrolase, prevents lethality in rats after poisoning with highly toxic organophosphorus pesticides. *Toxicology* 247(2-3):88-92.
- Bouchard MF, Chevrier J, Harley KG, et al. 2011. Prenatal exposure to organophosphate pesticides and IQ in 7-year old children. *Environ Health Perspect* 119(8):1189-1195.
- Boudry I, Blanck O, Cruz C, et al. 2008. Percutaneous penetration and absorption of parathion using human and pig skin models *in vitro* and human skin grafted onto nude mouse skin model *in vivo*. *J Appl Toxicol* 28(5):645-657.
- Boyd EM. 1969. Dietary protein and pesticide toxicity in male weanling rats. *Bull World Health Organ* 40(5):801-805.
- Bradway DE, Shafik TM, Lores EM. 1977. Comparison of cholinesterase activity, residue levels, and urinary metabolite excretion of rats exposed to organophosphorus pesticides. *J Agric Food Chem* 25(6):1353-1358.
- Braeckman RA, Audenaert F, Willems JL, et al. 1983. Toxicokinetics of methyl parathion and parathion in the dog after intravenous and oral administration. *Arch Toxicol* 54(1):71-82.
- Brown HV, Bush BA. 1950. Parathion inhibition of cholinesterase. *Arch Ind Hyg Occup Med* 1:633-636.
- Brown RL, Farmer CN, Millar RG. 1987. Optimization of sweep codistillation apparatus for determination of coumaphos and other organophosphorus pesticide residues in animal fat. *J AOAC* 70(3):442-445.
- Bulusu S, Chakravarty I. 1986. Subacute administration of organophosphorus pesticides and hepatic drug metabolizing enzyme activity in normal and malnourished rats. *Bull Environ Contam Toxicol* 36(1):73-80.
- Bulusu S, Chakravarty I. 1987. Effect of subacute administration of three organophosphorus pesticides on the hepatic phosphatases under various nutritional conditions. *Environ Res* 44(1):126-135.

9. REFERENCES

- Buratti FM, Volpe MT, Fabrizi L, et al. 2002. Kinetic parameters of OPT pesticide desulfuration by c-DNA expressed human CYPs. *Environ Toxicol Pharmacol* 11(3-4):181-190.
- Buratti FM, Volpe MT, Meneguz A, et al. 2003. CYP-specific bioactivation of four organophosphorothioate pesticides by human liver microsomes. *Toxicol Appl Pharmacol* 186(3):143-154.
- Burmaster DE. 1982. The new pollution. *Groundwater contamination*. *Environment* 24(2):6-36.
- Butler AM, Murray M. 1997. Biotransformation of parathion in human liver: Participation of CYP3A4 and its inactivation during microsomal parathion oxidation. *J Pharmacol Exp Ther* 280(2):966-973.
- Butler PA, Schutzmann RL. 1978. Fish, wildlife, and estuaries. Residues of pesticides and PCBs in estuarine fish, 1972-1976, National Pesticide Monitoring Programs. *Pestic Monit J* 12(2):51-59.
- Calaf GM, Roy D. 2007a. Gene and protein expressions induced by 17 β -estradiol and parathion in cultured breast epithelial cells. *Mol Med* 13(5-6):255-265.
- Calaf GM, Roy D. 2007c. Gene expression signature of parathion-transformed human breast epithelial cells. *Int J Mol Med* 19(5):741-750.
- Calaf GM, Roy D. 2007b. Human drug metabolism genes in parathion-and estrogen-treated breast cells. *Int J Mol Med* 20(6):875-881.
- Calaf GM, Echiburu-Chau C, Roy D. 2009. Organophosphorous pesticides and estrogen induce transformation of breast cells affecting *p53* and *c-Ha-ras* genes. *Int J Oncol* 35(5):1061-1068.
- CalEPA. 2015. Summary of Pesticide Use Report data 2014 indexed by chemical. California Environmental Protection Agency, Department of Pesticide Regulation.
<http://www.cdpr.ca.gov/docs/pur/pur14rep/chmrpt14.pdf>. August 23, 2016.
- Carey AE, Douglas P, Tai H, et al. 1979b. Pesticide residue concentrations in soils of five United States cities, 1971- Urban soils monitoring program. *Pestic Monit J* 13(1):17-22.
- Carey AE, Gowen JA, Tai H, et al. 1979a. Pesticide residue levels in soils and crops from 37 states, 1972. National Soils Monitoring Program (IV). *Pestic Monit J* 12(4):209-229.
- Carey AE, Yang HSC, Wiersma GB, et al. 1980. Soils. Residual concentration of propanil, TCAB, and other pesticides in rice-growing soils in the United States, 1972. *Pestic Monit J* 14(1):23-25.
- Carman GE, Iwata Y, Pappas JL, et al. 1982. Pesticide applicator exposure to insecticides during treatment of citrus trees with oscillating boom and airblast units. *Arch Environ Contam Toxicol* 11:651-659.
- Carrier G, Brunet RC. 1999. A toxicokinetic model to assess the risk of azinphosmethyl exposure in humans through measures of urinary elimination of alkylphosphates. *Toxicol Sci* 47:23-32.
- Carvalho FP, Fowler SW, Readman JW. 1998. The fate and effects of agrochemical residues in tropical coastal lagoons investigated with ^{14}C -labelled compounds and radiotracer techniques. *Verh Internat Verein Limnol* 26:1430-1432.

9. REFERENCES

- Casale GP, Cohen SD, DiCapua RA. 1983. The effects of organophosphate-induced cholinergic stimulation on the antibody response to sheep erythrocytes in inbred mice. *Toxicol Appl Pharmacol* 68(2):198-205.
- Casale GP, Cohen SD, DiCapua RA. 1984. Parathion-induced suppression of humoral immunity in inbred mice. *Toxicol Lett* 23(2):239-247.
- Casterline JL, Jr., Williams CH. 1971. The effect of 28-day pesticide feeding on serum and tissue enzyme activities of rats fed diets of varying casein content. *Toxicol Appl Pharmacol* 18(3):607-618.
- CDC. 2005. Third national report on human exposure to environmental chemicals. Atlanta, GA: Centers for Disease Control and Prevention, Department of Health and Human Services.
- CDC. 2009. Fourth national report on human exposure to environmental chemicals. Centers for Disease Control and Prevention, Department of Health and Human Services.
- CDC. 2015. Fourth national report on human exposure to environmental chemicals, updated tables (February 2015). Centers for Disease Control and Prevention.
http://www.cdc.gov/biomonitoring/pdf/FourthReport_UpdatedTables_Feb2015.pdf. December 14, 2015.
- CDFA. 1988. Evaluation of ethyl parathion as a toxic air contaminant. California Department of Food and Agriculture.
- Chambers JE, Ma T, Boone JS, et al. 1994. Role of detoxication pathways in acute toxicity levels of phosphorothionate insecticides in the rat. *Life Sci* 54(18):1357-1364.
- Chang MJW, Chen YC, Yang HJ. 1997. Comparative evaluation on the biological monitoring of exposure to parathion and its methyl analog. *Arch Environ Contam Toxicol* 32:422-425.
- Chang SK, Riviere JE. 1991. Percutaneous absorption of parathion *in vitro* in porcine skin: Effects of dose, temperature, humidity, and perfusate composition on absorptive flux. *Fundam Appl Toxicol* 17(3):494-504.
- Chapman RA, Cole CM. 1982. Observations on the influence of water and soil pH on the persistence of pesticides. *J Environ Sci Health B* 17(5):487-504.
- Chapman RA, Tu CM, Harris CR, et al. 1981. Persistence of five pyrethroid insecticides in sterile and natural, mineral and organic soil. *Bull Environ Contam Toxicol* 26:513-519.
- Chapman SK, Leibman KC. 1971. The effects of chlordane, DDT, and 3-methylcholanthrene upon the metabolism and toxicity of diethyl-4-nitrophenyl phosphorothionate (parathion). *Toxicol Appl Pharmacol* 18(4):977-987.
- Chaturvedi AK, Kuntz DJ, Rao NG. 1991. Metabolic aspects of the toxicology of mixtures of parathion, toxaphene and/or 2,4-D in mice. *J Appl Toxicol* 11(4):245-251.
- Chemnitius JM, Losch H, Losch K, et al. 1983. Organophosphate detoxicating hydrolases in different vertebrate species. *Comp Biochem Physiol* 76C:85-93.

9. REFERENCES

- Chen ZM, Zabik MJ, Leavitt RA. 1984. Comparative study of thin film photodegradative rates for 36 pesticides. *Ind Eng Chem Prod Res Dev* 23:5-11.
- Chiou CT, Freed VH, Peters LJ, et al. 1980. Evaporation of solutes from water. *Environ Int* 3:231-236.
- Chu W, Chan KH. 2000. The prediction of partitioning coefficients for chemicals causing environmental concern. *Sci Total Environ* 248(1):1-10.
- Clewel HJ, Andersen ME. 1985. Risk assessment extrapolations and physiological modeling. *Toxicol Ind Health* 1(4):111-131.
- Costa LG. 2008. Toxic effects of pesticides. In: Klaassen CD, ed. Casarett and Doull's toxicology. The basic science of poisons. 7th ed. New York, NY: McGraw-Hill Medical, 883-930.
- Costa LG, Aschner M, Vitalone A, et al. 2004. Developmental neuropathology of environmental agents. *Ann Rev Pharmacol Toxicol* 44:87-110. 10.1146/annurev.pharmtox.44.101802.121424.
- Costa LG, Giordano G, Cole TB, et al. 2013. Paraoxonase 1 (PON1) as a genetic determinant of susceptibility to organophosphate toxicity. *Toxicology* 307:115-122.
- Costa LG, Schwab BW, Murphy SD. 1982. Tolerance to anticholinesterase compounds in mammals. *Toxicology* 25:79-97.
- Coupe RH, Manning MA, Foreman WT, et al. 2000. Occurrence of pesticides in rain and air in urban and agricultural areas of Mississippi, April-September 1995. *Sci Total Environ* 248:227-240.
- Coye MJ, Barnett PG, Midtling JE, et al. 1987. Clinical confirmation of organophosphate poisoning by serial cholinesterase analyses. *Arch Intern Med* 147:338-342.
- Crosby DG. 1979. The significance of light induced pesticide transformations. In: Geissbuhler H, ed. Advances in pesticide science. Oxford: Pergamon Press, 568-576.
- Davies JE, Davis JH, Frazier DW, et al. 1967. Disturbances of metabolism in organophosphate poisoning. *Ind Med Surg* 36(1):58-62.
- De Bleeker J, Vogelaers D, Ceuterick C, et al. 1992. Intermediate syndrome due to prolonged parathion poisoning. *Acta Neurol Scand* 86(4):421-424.
- Degraeve N, Moutschen J. 1984. Absence of genetic and cytogenetic effects in mice treated by the organophosphorus insecticide parathion, its methyl analogue, and paraoxon. *Toxicology* 32(2):177-183.
- De Jager AE, van Weerden TW, Houthoff HJ, et al. 1981. Polyneuropathy after massive exposure to parathion. *Neurology* 31(5):603-605.
- Denga N, Moldeus P, Kasilo OM, et al. 1995. Use of urinary *p*-nitrophenol as an index of exposure to parathion. *Bull Environ Contam Toxicol* 55(2):296-302.
- Dennis LK, Lynch CF, Sandler DP, et al. 2010. Pesticide use and cutaneous melanoma in pesticide applicators in the agricultural health study. *Environ Health Perspect* 118(6):812-817.

9. REFERENCES

- Deskin R, Rosenstein L, Rogers N, et al. 1979. Parathion toxicity in perinatal rats exposed *in utero*. *Toxicol Lett* 3(1):11-14.
- de Solla SR, Struger J, McDaniel TV. 2012a. Detection limits can influence the interpretation of pesticide monitoring data in Canadian surface waters. *Chemosphere* 86:565-571.
- de Solla SR, Struger J, McDaniel TV. 2012b. Supplemental material to "Detection limits can influence the interpretation of pesticide monitoring data in Canadian surface water" (*Chemosphere* 86:565-571). *Chemosphere*. <http://www.sciencedirect.com/science/article/pii/S0045653511010708#appd002>. December 14, 2015.
- Diggory HJ, Landrigan PJ, Latimer KP, et al. 1977. Fatal parathion poisoning caused by contamination of flour in international commerce. *Am J Epidemiol* 106(2):145-153.
- Dikshith TS, Datta KK. 1972. Effect of parathion on the skin of guinea-pigs. *Experientia* 28(2):169-171.
- Dikshith TS, Tandon SK, Datta KK, et al. 1978. Comparative response of male rats to parathion and lindane: Histopathological and biochemical studies. *Environ Res* 17(1):1-9.
- Di Muccio A, Pelosi P, Camoni I, et al. 1996. Selective, solid-matrix dispersion extraction of organophosphate pesticide residues from milk. *J Chromatogr A* 754:497-506.
- DOE. 2016a. Protective action criteria (PAC): Chemicals with AEGLs, ERPGs, & TEELs. Definition of PACs (AEGLs, ERPGs or TEELs). Protective Action Criteria (PAC) with AEGLs, ERPGs, & TEELs: Rev. 29 for Chemicals of Concern - May 2016. Oak Ridge, TN: U.S. Department of Energy. <http://energy.gov/ehss/protective-action-criteria-pac-aegls-erpgs-teels-rev-27-chemicals-concern-march-2012>. November 1, 2016.
- DOE. 2016b. Table 2: Protective Action Criteria (PAC) Rev. 29 based on applicable 60-minute AEGLs, ERPGs, or TEELs. The chemicals are listed in alphabetical order. May 2016. Oak Ridge, TN: U.S. Department of Energy. <http://energy.gov/ehss/protective-action-criteria-pac-aegls-erpgs-teels-rev-29-chemicals-concern-may-2016>. November 1, 2016.
- Draper WM, Crosby DG. 1984. Solar photooxidation of pesticides in dilute hydrogen peroxide. *J Agric Food Chem* 32:231-237.
- Driss MR, Hennion MC, Bouguerra ML. 1993. Determination of carbaryl and some organophosphorus pesticides in drinking water using on-line liquid chromatographic preconcentration techniques. *J Chromatogr* 639:352-358.
- Durham WF, Wolfe HR, Elliott JW. 1972. Absorption and excretion of parathion by spraymen. *Arch Environ Health* 24(6):381-387.
- Duyesen EG, Lockridge O. 2011. Induction of plasma acetylcholinesterase activity in mice challenged with organophosphorus poisons. *Toxicol Appl Pharmacol* 255(2):214-220.
- Duyesen EG, Cashman JR, Schopfer LM, et al. 2012. Differential sensitivity of plasma carboxylesterase-null mice to parathion, chlorpyrifos and chlorpyrifos oxon, but not to diazinon, dichlorvos, diisopropylfluorophosphate, cresyl saligenin phosphate, cyclosarin thiocholine, tabun thiocholine, and carbofuran. *Chem Biol Interact* 195(3):189-198.

9. REFERENCES

- Ebbert JC, Embrey SS. 2001. Pesticides in surface water of the Yakima River Basin, Washington, 1999-2000: Their occurrence and an assessment of factors affecting concentrations and loads. Portland, OR: U.S. Department of the Interior, U.S. Geological Survey.
- Ecobichon DJ. 1994. Organophosphorus ester insecticides. In: Pesticides and neurological diseases. 2nd ed. Boca Raton, FL: CRC Press, Inc., 171-249.
- Ecobichon DJ, Comeau AM. 1973. Pseudocholinesterases of mammalian plasma: Physicochemical properties and organophosphate inhibition in eleven species. *Toxicol Appl Pharmacol* 24:92-100.
- Eddleston M. 2015. Insecticides: Organic phosphorus compounds and carbamates. In: Hoffman RS, Howland MA, Lewin NA, eds. Goldfrank's toxicologic emergencies. 10th ed. New York, NY: McGraw-Hill Education, 1409–1424.
- Edson EF. 1964. Summaries of toxicological data. No-effect levels of three organophosphates in the rat, pig and man. *Food Cosmet Toxicol* 2:311-316.
- Eichelberger JW, Lichtenberg JJ. 1971. Persistence of pesticides in river water. *Environ Sci Technol* 5(6):541-544.
- Eigenberg DA, Pazdernik TL, Doull J. 1983. Hemoperfusion and pharmacokinetic studies with parathion and paraoxon in the rat and dog. *Drug Metab Dispos* 11(4):366-370.
- Eisenreich SJ, Looney BB, Thornton JD. 1981. Airborne organic contaminants in the Great Lakes ecosystem. *Environ Sci Technol* 15(1):30-38.
- Eisert R, Levsen K, Wunsch G. 1994. Element-selective detection of pesticides by gas chromatography-atomic emission detection and solid-phase microextraction. *J Chromatogr A* 683:175-183.
- Eitzman DV, Wolfson SL. 1967. Acute parathion poisoning in children. *Am J Dis Child* 114(4):397-400.
- Ek CJ, Dziegielewska KM, Habgood MD, et al. 2012. Barriers in the developing brain and neurotoxicology. *Neurotoxicology* 33(3):586-604. 10.1016/j.neuro.2011.12.009.
- Elkner KP, Fenske RA, Gallo M. 1991. Effect of systemic exposure to parathion on the dark adapted pupil dilation of cynomolgus monkeys. *J Toxicol Environ Health* 32(1):75-88.
- El-Masri HA, Mumtaz MM, Yushak ML. 2004. Application of physiologically-based pharmacokinetic modeling to investigate the toxicological interaction between chlorpyrifos and parathion in the rat. *Environ Toxicol Pharmacol* 16(1-2):57-71.
- EPA 1977a. Evaluation of selected pesticides as chemical mutagens in vitro and in vivo studies. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development. EPA600177028. <http://nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=9100SHSP.txt>. August 8, 2016.
- EPA. 1977b. The degradation of selected pesticides in soil: A review of the published literature. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development.

9. REFERENCES

- EPA. 1978. Teratology and acute toxicology of selected chemical pesticides administered by inhalation. Environmental health effects research series. Research Triangle Park, NC: U.S. Environmental Protection Agency. EPA600178003. PB277077.
- EPA. 1990. Interim methods for development of inhalation reference concentrations. Washington, DC: U.S. Environmental Protection Agency. EPA600890066A. PB90238890.
- EPA. 1993a. Methods for the determination of nonconventional pesticides in municipal and industrial wastewater. Method 1657. The determination of organo-phosphorus pesticides in municipal and industrial wastewater. Washington, DC: U.S. Environmental Protection Agency, Office of Water. EPA821R93010A.
- EPA. 1993b. Methods for the determination of nonconventional pesticides in municipal and industrial wastewater. Method 614. The determination of organophosphorus pesticides in municipal and industrial wastewater. Washington, DC: U.S. Environmental Protection Agency, Office of Water. EPA821R93010A.
- EPA. 1997. Special report on environmental endocrine disruption: An effects assessment and analysis. Washington, DC: U.S. Environmental Protection Agency. EPA630R96012.
- EPA. 1998. RCRA waste minimization PBT priority chemical list. U.S. Environmental Protection Agency. Fed Regist 63 FR 60332. <http://www.gpo.gov/fdsys>. April 24, 2013.
- EPA. 2000. Ethyl parathion. R.E.D. Facts. U.S. Environmental Protection Agency. www.epa.gov/oppsrrd1/REDs/factsheets/0155fct.pdf. June 3, 2013.
- EPA. 2001. Preliminary cumulative risk assessment of the organophosphorus pesticides. U.S. Environmental Protection Agency. <http://www.epa.gov/opp00001/cumulative/rra-op/>. June 7, 2013.
- EPA. 2002. Organophosphate pesticides: Revised cumulative risk assessment. U.S. Environmental Protection Agency. <http://www.epa.gov/pesticides/cumulative/rra-op/>. May 15, 2013.
- EPA. 2005. Toxic chemical release inventory reporting forms and instructions: Revised 2004 version. Section 313 of the Emergency Planning and Community Right-to-Know Act (Title III of the Superfund Amendments and Reauthorization Act of 1986). U.S. Environmental Protection Agency, Office of Environmental Information. EPA260B05001.
- EPA. 2006a. Organophosphorus cumulative risk assessment-2006. Update. U.S. Environmental Protection Agency. <http://www.epa.gov/oppsrrd1/cumulative/2006-op/index.htm>. June 3, 2013.
- EPA. 2006b. Ethyl parathion; product cancellation order. Fed Regist 71(239):74904-74905. <http://www.epa.gov/fedrgstr/EPA-PEST/2006/December/Day-13/p20988.htm>. July 16, 2013.
- EPA. 2009a. Drinking water contaminant candidate list. U.S. Environmental Protection Agency. Fed Regist 74 FR 51850:51850-51862. <http://www.gpo.gov/fdsys>. April 24, 2013.
- EPA. 2009b. National primary drinking water regulations. Washington, DC: U.S. Environmental Protection Agency, Office of Ground Water and Drinking Water. <http://water.epa.gov/drink/contaminants/upload/mcl-2.pdf>. April 24, 2013.

9. REFERENCES

- EPA. 2009c. National recommended water quality criteria. Washington, DC: U.S. Environmental Protection Agency, Office of Water, Office of Science and Technology.
<http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm>. April 24, 2013.
- EPA. 2012a. Designated as hazardous substances in accordance with section 311(b)(2)(a) of the Clean Water Act. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 116.4.
<http://www.gpo.gov/fdsys>. April 24, 2013.
- EPA. 2012b. Drinking water standards and health advisories. Washington, DC: U.S. Environmental Protection Agency, Office of Water. EPA822S12001.
<http://water.epa.gov/drink/standards/hascience.cfm>. April 24, 2013.
- EPA. 2012c. Identification and listing of hazardous waste. Hazardous constituents. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 261, Appendix VIII.
<http://www.gpo.gov/fdsys>. April 24, 2013.
- EPA. 2012d. Reportable quantities of hazardous substances designated pursuant to section 311 of the Clean Water Act. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 117.3.
<http://www.gpo.gov/fdsys>. April 24, 2013.
- EPA. 2012e. Standards for owners and operators of hazardous waste TSD facilities. Groundwater monitoring list. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 264, Appendix IX. <http://www.gpo.gov/fdsys>. April 24, 2013.
- EPA. 2012f. Superfund, emergency planning, and community right-to-know programs. Designation, reportable quantities, and notifications. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 302.4. <http://www.gpo.gov/fdsys>. April 24, 2013.
- EPA. 2012g. Superfund, emergency planning, and community right-to-know programs. Extremely hazardous substances and their threshold planning quantities. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 355, Appendix A. <http://www.gpo.gov/fdsys>. April 24, 2013.
- EPA. 2012h. Superfund, emergency planning, and community right-to-know programs. Toxic chemical release reporting. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 372.65. <http://www.gpo.gov/fdsys>. April 24, 2013.
- EPA. 2012i. Toxic Substances Control Act. Chemical lists and reporting periods. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 712.30. <http://www.gpo.gov/fdsys>. April 24, 2013.
- EPA. 2012j. Toxic Substances Control Act. Health and safety data reporting. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 716.120. <http://www.gpo.gov/fdsys>. April 24, 2013.
- EPA. 2013a. Acute exposure guideline levels (AEGLs). Washington, DC: U.S. Environmental Protection Agency, Office of Pollution Prevention and Toxics. <http://www.epa.gov/oppt/aegl/>. April 24, 2013.
- EPA. 2013b. Hazardous air pollutants. Clean Air Act. U.S. Environmental Protection Agency. United States Code 42 USC 7412. <http://www.epa.gov/ttn/atw/orig189.html>. April 24, 2013.

9. REFERENCES

- EPA. 2013c. Inert ingredients permitted for use in nonfood pesticide products. Washington, DC: U.S. Environmental Protection Agency. <http://iaspub.epa.gov/apex/pesticides/f?p=124:1>. April 24, 2013.
- EPA. 2013d. Master testing list. Washington, DC: U.S. Environmental Protection Agency, Office of Pollution Prevention and Toxics. <http://www.epa.gov/opptintr/chemtest/pubs/mtl.html>. April 24, 2013.
- EPA. 2013e. National ambient air quality standards (NAAQS). Washington, DC: U.S. Environmental Protection Agency, Office of Air and Radiation. <http://www.epa.gov/air/criteria.html>. April 24, 2013.
- Erdman AR. 2004. Pesticides. In: Dart RC, ed. Medical toxicology. 3rd ed. Philadelphia, PA: Lippincott Williams & Wilkins, 1475-1496.
- Eskenazi B, Harley K, Bradman A, et al. 2004. Association of *in utero* organophosphate pesticide exposure and fetal growth and length of gestation in an agricultural population. *Environ Health Perspect* 112(10):1116-1124.
- Eskenazi B, Marks AR, Bradman A, et al. 2007. Organophosphate pesticide exposure and neurodevelopment in young Mexican-American children. *Environ Health Perspect* 115(5):792-798.
- Etzel RA, Forthal DN, Hill RH, Jr., et al. 1987. Fatal parathion poisoning in Sierra Leone. *Bull World Health Organ* 65(5):645-649.
- Evron T, Geyer BC, Cherni I, et al. 2007. Plant-derived human acetylcholinesterase-R provides protection from lethal organophosphate poisoning and its chronic aftermath. *FASEB J* 21(11):2961-2969.
- Eyer F, Meischner V, Kiderlen D, et al. 2003. Human parathion poisoning. A toxicokinetic analysis. *Toxicol Rev* 22(3):143-163.
- Fahrig R. 1974. Comparative mutagenicity studies with pesticides. *IARC Sci Publ* 10:161-181.
- FAO. 1997. Parathion. Food and Agricultural Organization of the United Nations. <http://www.fao.org/docrep/W5715E/w571e05.htm#parathion>.
- Farm Chemicals Handbook. 1987. Parathion. In: Farm chemicals handbook '87. Meister Publishing Company, C192-C193.
- Faust SD, Suffet IH. 1966. Recovery, separation, and identification of organic pesticides from natural and potable waters. In: Gunther FA, ed. Residue reviews. Residues of pesticides and other foreign chemicals in foods and feeds. New York, NY: Springer-Verlag, 44-116.
- FDA. 1995. Residue monitoring. Food and Drug Administration Pesticide Program.
- FDA. 2013. Everything added to food in the United States (EAFUS). Washington, DC: U.S. Food and Drug Administration. <http://www.accessdata.fda.gov/scripts/fcn/fcnnavigation.cfm?rpt=eafuslisting>. April 24, 2013.
- Felsot A, Dahm PA. 1979. Sorption of organophosphorus and carbamate insecticides by soil. *J Agric Food Chem* 27(3):557-563.
- Fenske RA, Lu C, Simcox NJ, et al. 2009. Strategies for assessing children's organophosphorus pesticide exposures in agricultural communities. *J Expo Anal Environ Epidemiol* 10:662-671.

9. REFERENCES

- Finkelstein Y, Wolff M, Biegon A. 1988. Brain acetylcholinesterase after acute parathion poisoning: A comparative quantitative histochemical analysis post mortem. *Ann Neurol* 24(2):252-257.
- Firestone JA, Smith-Weller T, Franklin G, et al. 2005. Pesticides and risk of Parkinson disease: A population-based case-control study. *Arch Neurol* 62(1):91-95.
- Fisher SW, Lohner TW. 1987. Changes in the aqueous behavior of parathion under varying conditions of pH. *Arch Environ Contam Toxicol* 16:79-84.
- Fjordboge AS, Baun A, Vastrup T, et al. 2013. Zero valent iron reduces toxicity and concentrations of organophosphate pesticides in contaminated groundwater. *Chemosphere* 90:627-633.
- Fomon SJ. 1966. Body composition of the infant: Part 1: The male reference infant. In: Faulkner F, ed. *Human development*. Philadelphia, PA: WB Saunders, 239-246.
- Fomon SJ, Haschke F, Ziegler EE, et al. 1982. Body composition of reference children from birth to age 10 years. *Am J Clin Nutr* 35(Suppl 5):1169-1175.
- Forsyth CS, Chambers JE. 1989. Activation and degradation of the phosphorothionate insecticides parathion and EPN by rat brain. *Biochem Pharmacol* 38(10):1597-1603.
- Foxenberg RJ, Ellison CA, Knaak JB, et al. 2011. Cytochrome P450-specific human PBPK/PD models for the organophosphorus pesticides: Chlorpyrifos and parathion. *Toxicology* 285:57-66.
- Foxenberg RJ, McGarrigle BP, Knaak JB, et al. 2007. Human hepatic cytochrome P450-specific metabolism of parathion and chlorpyrifos. *Drug Metab Dispos* 35(2):189-193.
- Frank R, Braun HE, Ishida K, et al. 1976. Persistent organic and inorganic pesticide residues in orchard soils and vineyards of southern Ontario. *Can J Soil Sci* 56:463-484.
- Frawley JP, Fuyat HN. 1957. Effect of low dietary levels of parathion and systox on blood cholinesterase of dogs. *J Agric Food Chem* 5(5):346-348.
- Freed VH, Chiou CT, Schmedding DW. 1979. Degradation of selected organophosphate pesticides in water and soil. *J Agric Food Chem* 27(4):706-708.
- Fukushima M, Katagi T. 2006. Photodegradation of fenitrothion and parathion in tomato epicuticular waxes. *J Agric Food Chem* 54(2):474-479.
- Fukuyama T, Kosaka T, Hayashi K, et al. 2012. Immunotoxicity in mice induced by short-term exposure to methoxychlor, parathion, or piperonyl butoxide. *J Immunotoxicol* 10(2):150-159.
- Fukuyama T, Kosaka T, Tajima Y, et al. 2010. Prior exposure to organophosphorus and organochlorine pesticides increases the allergic potential of environmental chemical allergens in a local lymph node assay. *Toxicol Lett* 199(3):347-356.
- Fukuyama T, Tajima Y, Ueda H, et al. 2011. Prior exposure to immunosuppressive organophosphorus or organochlorine compounds aggravates the T(H)1- and T(H)2-type allergy caused by topical sensitization to 2,4-dinitrochlorobenzene and trimellitic anhydride. *J Immunotoxicol* 8(2):170-182.

9. REFERENCES

- Funckes AJ, Hayes GR, Jr., Hartwell WV. 1963. Urinary excretion of paranitrophenol by volunteers following dermal exposure to parathion at different ambient temperatures. *J Agric Food Chem* 11(6):455-457.
- Furlong CE, Li WF, Brophy VH, et al. 2000. The PON1 gene and detoxication. *Neurotoxicology* 21(4):581-587.
- Funari R, B. DV, Schiavo L, et al. 2013. Detection of parathion pesticide by quartz crystal microbalance functionalized with UV-activated antibodies. *Anal Chem* 85(13):6392-6397.
- Gagne J, Brodeur J. 1972. Metabolic studies on the mechanisms of increased susceptibility of weanling rats to parathion. *Can J Physiol Pharmacol* 50(9):902-915.
- Gaines TB. 1960. The acute toxicity of pesticides to rats. *Toxicol Appl Pharmacol* 2:88-99.
- Gaines TB, Linder RE. 1986. Acute toxicity of pesticides in adult and weanling rats. *Fundam Appl Toxicol* 7(2):299-308.
- Gallo MA, Lawryk NJ. 1991. Organic phosphorus pesticides. In: Hayes WJ, Laws ER, eds. *Handbook of pesticide toxicology, classes of pesticides*. New York: Academic Press Inc., 1040-1049, 1091-1123.
- García-Repetto R, Gimenez MP, Repetto M. 2001. New method for determination of ten pesticides in human blood. *J AOAC Int* 84(2):342-349.
- García-Repetto R, Martinez D, Repetto M. 1995. Coefficient of distribution of some organophosphorous pesticides in rat tissue. *Vet Hum Toxicol* 37(3):226-229.
- Gartrell MJ, Craun JC, Podrebarac DS, et al. 1986a. Pesticides, selected elements, and other chemicals in infant and toddler total diet samples, October 1980-March 1982. *J Assoc Off Anal Chem* 69(1):123-145.
- Gartrell MJ, Craun JC, Podrebarac DS, et al. 1986b. Pesticides, selected elements, and other chemicals in adult total diet samples, October 1980-March 1982. *J Assoc Off Anal Chem* 69(1):146-161.
- Gearhart JM, Jepson GW, Clewell HJ, et al. 1994. Physiologically based pharmacokinetic model for the inhibition of acetylcholinesterase by organophosphate esters. *Environ Health Perspect* 102(11):51-60.
- Gentry PR, Hack CE, Haber L, et al. 2002. An approach for the quantitative consideration of genetic polymorphism data in chemical risk assessment: Examples with warfarin and parathion. *Toxicol Sci* 70(1):120-139.
- Gerstl Z, Mingelgrin U. 1984. Sorption of organic substances by soils and sediments. *J Environ Sci Health* B19(3):297-312.
- Gerstl Z, Yaron B, Nye PH. 1979. Diffusion of a biodegradable pesticide. I. In a biologically inactive soil. *Soil Sci Soc Am J* 43:839-842.
- Gilot-Delhalle J, Colizzi A, Moutschen J, et al. 1983. Mutagenicity of some organophosphorus compounds at the *ade6* locus of *Schizosaccharomyces pombe*. *Mutat Res* 117:139-148.

9. REFERENCES

- Giwercman A, Carlsen E, Keiding N, et al. 1993. Evidence for increasing incidence of abnormalities of the human testis: A review. *Environ Health Perspect* 101(Supp 2):65-71.
- Glooschenko WA, Strachan WMJ, Sampson RCL. 1976. Residues in water. Distribution of pesticides and polychlorinated biphenyls in water, sediments, and seston of the Upper Great Lakes, 1974. *Pestic Monit J* 10(2):61-67.
- Glotfelty DE, Majewski MS, Seiber JN. 1990. Distribution of several organophosphorus insecticides and their oxygen analogues in a foggy atmosphere. *Environ Sci Technol* 24(3):353-357.
- Goldner WS, Sandler DP, Yu F, et al. 2013. Hypothyroidism and pesticide use among male private pesticide applicators in the Agricultural Health Study. *J Occup Environ Med* 55(10): 1171-1178. 10.1097/JOM.0b013e31829b290b.
- Gosselin NH, Bouchard M, Brunet RC, et al. 2005. Toxicokinetic modeling of parathion and its metabolites in humans for the determination of biological reference values. *Toxicol Mech Methods* 15(1):33-52.
- Gramatica P, Corradi M, Consonni V. 2000. Modelling and prediction of soil sorption coefficients of non-ionic organic pesticides by molecular descriptors. *Chemosphere* 41:763-777.
- Grob D, Garlick WL, Harvey AM. 1950. The toxic effects in man of the anticholinesterase insecticide parathion (p-nitrophenol diethyl thionophosphate). *Johns Hopkins Med J* 87:106-129.
- Gunderson EL. 1988. FDA Total Diet Study, April 1982-April 1984, dietary intakes of pesticides, selected elements, and other chemicals. *J Assoc Off Anal Chem* 71(6):1200-1209.
- Gunderson EL. 1995. FDA total diet study, July 1986-April 1991, dietary intakes of pesticides, selected elements, and other chemicals. *J Assoc Off Anal Chem Int* 78(6):1353-1362.
- Guyton KZ, Loomis D, Grosse Y, et al. 2015. Carcinogenicity of tetrachlorvinphos, parathion, malathion, diazinon, and glyphosate. *Lancet* 16:490-491. 10.1016/s1470-2045(15)70134-8.
- Guzelian PS, Henry CJ, Olin SS. 1992. Similarities and differences between children and adults: Implications for risk assessment. Washington, DC: International Life Sciences and Press Institute Press.
- Haber LT, Maier A, Gentry PR, et al. 2002. Genetic polymorphisms in assessing interindividual variability in delivered dose. *Regul Toxicol Pharmacol* 35(2 Pt 1):177-197.
- Hall RJ, Kolbe E. 1980. Bioconcentration of organophosphorus pesticides to hazardous levels by amphibians. *J Toxicol Environ Health* 6(4):853-860.
- Hankemeier T, Louter AJH, Rinkema FD, et al. 1995. On-line coupling of solid-phase extraction and gas chromatography with atomic emission detection for analysis of trace pollutants in aqueous samples. *Chromatographia* 40(3/4):119-124.
- Harbison RD. 1975. Comparative toxicity of some selected pesticides in neonatal and adult rats. *Toxicol Appl Pharmacol* 32(2):443-446.
- Hartwell WV, Hayes GR, Jr., Funckes AJ. 1964. Respiratory exposure to volunteers to parathion. *Arch Environ Health* 8:820-825.

9. REFERENCES

Hayes G, Funckes AJ, Hartwell WV. 1964. Dermal exposure of human volunteers to parathion. *Arch Environ Health* 8:829-833.

He F, Xu H, Qin F, et al. 1998. Intermediate myasthenia syndrome following acute organophosphates poisoning--an analysis of 21 cases. *Hum Exp Toxicol* 17(1):40-45.

HHS. 2009. Public welfare. Protection of human subjects. U.S. Department of Health & Human Services. Code of Federal Regulations 45 CFR 46, Subpart C.
<http://www.hhs.gov/ohrp/humansubjects/guidance/45cfr46.html#subpartc>. May 14, 2014.

Hochreiter JJ. 1982. Chemical-quality reconnaissance of the water and surficial bed material in the Delaware River estuary and adjacent New Jersey tributaries, 1980-1981. Trenton, NJ: U.S. Geological Survey, Water Resources Division.

Hoel DG, Davis DL, Miller AB, et al. 1992. Trends in cancer mortality in 15 industrialized countries, 1969-1986. *J Natl Cancer Inst* 84(5):313-320.

Hoffman RS, Capel PD, Larson SJ. 2000. Comparison of pesticides in eight U.S. urban streams. *Environ Toxicol Chem* 19(9):2249-2258.

Hoffmann U, Papendorf T. 2006. Organophosphate poisonings with parathion and dimethoate. *Intensive Care Med* 32(3):464-468.

Hollingworth RM, Alstott RL, Litzenberg RD. 1973. Glutathione S-aryl transferase in the metabolism of parathion and its analogs. *Life Sci* 13(3):191-199.

Holstege DM, Scharberg DL, Richardson ER, et al. 1991. Multiresidue screen for organophosphorus insecticides using gel permeation chromatography- silica gel cleanup. *J Assoc Off Anal Chem* 74(2):394-399.

Hong J, Eo Y, Rhee J, et al. 1993. Simultaneous analysis of 25 pesticides in crops using gas chromatography and their identification by gas chromatography-mass spectrometry. *J Chromatogr* 639:261-271.

Hopper ML. 1988. Improved method for partition of organophosphate pesticide residues on a solid phase partition column. *J Assoc Off Anal Chem* 71(4):731-734.

Hoppin JA, Umbach DM, London SJ, et al. 2006. Pesticides and adult respiratory outcomes in the Agricultural Health Study. *Ann N Y Acad Sci* 1076:343-354.

Hoppin JA, Umbach DM, London SJ, et al. 2009. Pesticide use and adult-onset asthma among male farmers in the Agricultural Health Study. *Eur Respir J* 34(6):1296-1303.

House WA, Rae JE, Kimblin RT. 1992. Source-sediment controls on the riverine transport of pesticides. Brighton Crop Protection Conference- Pests and Diseases-1992, 865-870.

HSDB. 2013. Parathion. Hazardous Substances Data Bank, National Library of Medicine.
<http://toxnet.nlm.nih.gov>. June 03, 2013.

9. REFERENCES

- Hsu JP, Schattenberg HJ, III, Garza MM. 1991. Fast turnaround multiresidue screen for pesticides in produce. *J Assoc Off Anal Chem* 74(5):886-892.
- Hunter CL, Stephenson MD, Tjeerdema RS, et al. 1995. Contaminants in oysters in Kaneohe Bay, Hawaii. *Mar Pollut Bull* 30(10):646-654.
- Hurh E, Lee E, Lee A, et al. 2000. Effects of enzyme inducers or inhibitors on the pharmacokinetics of intravenous parathion in rats. *Biopharm Drug Dispos* 21(5):193-204.
- IARC. 1983. Parathion in animals. In: IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans. Lyon, France: International Agency for Research on Cancer, 162-163.
- IARC. 2013. Agents classified by the IARC monographs. Volumes 1–107. Lyon, France: International Agency for Research on Cancer. <http://monographs.iarc.fr/ENG/Classification/index.php>. April 24, 2013.
- IPCS. 2005. Methyl parathion. ICSC: 0626. International Chemical Safety Cards (ICSCs). International Programme on Chemical Safety. <http://www.inchem.org/documents/icsc/icsc/eics0626.htm>. August 25, 2014.
- IRIS. 2003. Parathion. Integrated Risk Information System. Washington, DC: U.S. Environmental Protection Agency. <http://www.epa.gov/iris/>. April 24, 2013.
- Ivens IA, Schmuck G, Machemer L. 1998. Learning and memory of rats after long-term administration of low doses of parathion. *Toxicol Sci* 46(1):101-111.
- James MO. 1994. Pesticide metabolism in aquatic organisms. In: Chemistry of plant protection. Vol. 9. Berlin Heidelberg: Springer-Verlag, 153-189.
- Jan YH, Richardson JR, Baker AA, et al. 2015. Vitamin K3 (menadione) redox cycling inhibits cytochrome P450-mediated metabolism and inhibits parathion intoxication. *Toxicol Appl Pharmacol* 288(1):114-120. 10.1016/j.taap.2015.07.023.
- Jepson GW, Hoover DK, Black RK, et al. 1994. A partition coefficient determination method for nonvolatile chemicals in biological tissues. *Fundam Appl Toxicol* 22(4):519-524.
- Johnson MK. 1975. Organophosphorus esters causing delayed neurotoxic effects. Mechanism of action and structure/activity studies. *Arch Toxicol* 34:259-288.
- Jury WA, Spencer WF, Farmer WJ. 1984. Behavior assessment model for trace organics in soil: III. Application of screening model. *J Environ Qual* 13(4):573-579.
- Kacham R, Karanth S, Baireddy P, et al. 2006. Interactive toxicity of chlorpyrifos and parathion in neonatal rats: Role of esterases in exposure sequence-dependent toxicity. *Toxicol Appl Pharmacol* 210(1-2):142-149.
- Kadenczki L, Arpad Z, Gardi I. 1992. Column extraction of residues of several pesticides from fruits and vegetables: A simple multiresidue analysis method. *J Assoc Off Anal Chem Int* 751(1):53-61.
- Kadoum AM, Mock DE. 1978. Herbicide and insecticide residues in trailwater pits: Water and pit bottom soil from irrigated corn and sorghum fields. *J Agric Food Chem* 26(1):45-50.

9. REFERENCES

- Kamataki T, Lee Lin MCM, Belcher DH, et al. 1976. Studies of the metabolism of parathion with an apparently homogeneous preparation of rabbit liver cytochrome P-450. *Drug Metab Dispos* 4(2):180-189.
- Karanth S, Pope C. 2000. Carboxylesterase and A-esterase activities during maturation and aging: Relationship to the toxicity of chlorpyrifos and parathion in rats. *Toxicol Sci* 58(2):282-289.
- Karanth S, Olivier K, Jr., Liu J, et al. 2001. *In vivo* interaction between chlorpyrifos and parathion in adult rats: Sequence of administration can markedly influence toxic outcome. *Toxicol Appl Pharmacol* 177(3):247-255.
- Kaur R, Kaur S, Lata M. 2011. Evaluation of DNA damage in agricultural workers exposed to pesticides using single cell gel electrophoresis (comet) assay. *Ind J Human Genetics* 17:179-187.
- Kearns GL, Abdel-Rahman SM, Alander SW, et al. 2003. Developmental pharmacology--drug disposition, action, and therapy in infants and children. *N Engl J Med* 349(12):1157-1167. 10.1056/NEJMra035092.
- Kenaga EE. 1980. Predicted bioconcentration factors and soil sorption coefficients of pesticides and other chemicals. *Ecotoxicol Environ Saf* 4:26-38.
- Kevekordes S, Gebel T, Pav K, et al. 1996. Genotoxicity of selected pesticides in the mouse bone-marrow micronucleus test and in the sister-chromatid exchange test with human lymphocytes *in vitro*. *Toxicol Lett* 89(1):35-42.
- Kim DO, Lee SK, Jeon TW, et al. 2005. Role of metabolism in parathion-induced hepatotoxicity and immunotoxicity. *J Toxicol Environ Health A* 68(23-24):2187-2205.
- Kissel JC, Curl CL, Kedan G, et al. 2005. Comparison of organophosphorus pesticide metabolite levels in single and multiple daily urine samples collected from preschool children in Washington State. *J Expo Anal Environ Epidemiol* 15(2):164-171.
- Knaak JB, Yee K, Ackerman CR, et al. 1984. Percutaneous absorption and dermal dose-cholinesterase response studies with parathion and carbaryl in the rat. *Toxicol Appl Pharmacol* 76(2):252-263.
- Kojima H, Katsura E, Takeuchi S, et al. 2004. Screening for estrogen and androgen receptor activities in 200 pesticides by *in vitro* reporter gene assays using Chinese hamster ovary cells. *Environ Health Perspect* 112(5):524-531.
- Komori M, Nishio K, Kitada M, et al. 1990. Fetus-specific expression of a form of cytochrome P-450 in human livers. *Biochemistry* 29(18):4430-4433.
- Krapac IG, Roy WR, Smyth CA, et al. 1995. Occurrence and distribution of pesticides in soil at agrochemical facilities in Illinois. *J Soil Contam* 4(3):209-226.
- Krishnan K, Andersen ME. 1994. Physiologically based pharmacokinetic modeling in toxicology. In: Hayes AW, ed. *Principles and methods of toxicology*. 3rd ed. New York, NY: Raven Press, Ltd., 149-188.

9. REFERENCES

- Krishnan K, Anderson ME, Clewell HJ, et al. 1994. Physiologically based pharmacokinetic modeling of chemical mixtures. In: Yang RSH, ed. *Toxicology of chemical mixtures. Case studies, mechanisms, and novel approaches*. San Diego, CA: Academic Press, 399-437.
- Kuntz DJ, Rao NG, Berg IE, et al. 1990. Toxicity of mixtures of parathion, toxaphene and/or 2,4-D in mice. *J Appl Toxicol* 10(4):257-266.
- Kutz FW, Yobs AR, Yang HSC. 1976. National pesticide monitoring programs. In: *Air pollution from pesticides and agricultural processes*. Cleveland, OH: CRC Press, 95-136.
- Kwakman PJM, Vreuls JJ, Brinkman UA, et al. 1992. Determination of organophosphorus pesticides in aqueous samples by on-line membrane disk extraction and capillary gas chromatography. *Chromatographia* 34(1/2):41-47.
- Lam RHF, Brown JP, Fan AM. 1994. Chemicals in California drinking water: Source of contamination, risk assessment, and drinking water standards. In: Wang RGM, ed. *Water contamination and health*. New York, NY: Marcel Dekker, Inc., 15-44.
- Lambropoulou DA, Albanis TA. 2003. Headspace solid-phase microextraction in combination with gas chromatography-mass spectrometry for the rapid screening of organophosphorus insecticide residues in strawberries and cherries. *J Chromatogr A* 993:197-203.
- Lankisch PG, Muller CH, Niederstadt H, et al. 1990. Painless acute pancreatitis subsequent to anticholinesterase insecticide (parathion) intoxication. *Am J Gastroenterol* 85(7):872-875.
- Lartiges SB, Garrigues PP. 1995. Degradation kinetics of organophosphorus and organonitrogen pesticides in different waters under various environmental conditions. *Environ Sci Technol* 29(5):1246-1254.
- Lassiter TL, Ryde IT, Levin ED, et al. 2010. Neonatal exposure to parathion alters lipid metabolism in adulthood: Interactions with dietary fat intake and implications for neurodevelopmental deficits. *Brain Res Bull* 81(1):85-91.
- Lassiter TL, Ryde IT, MacKillop EA, et al. 2008. Exposure of neonatal rats to parathion elicits sex-selective reprogramming of metabolism and alters the response to a high-fat diet in adulthood. *Environ Health Perspect* 116:1456-1462.
- LeBel GL, Williams DT, Griffith G, et al. 1979. Isolation and concentration of organophosphorus pesticides from drinking water at the ng/L level, using macroreticular resin. *J Assoc Off Anal Chem* 62(2):241-249.
- Lee P, Rhodes SL, Sinsheimer JS, et al. 2013. Functional paraoxonase 1 variants modify the risk of Parkinson's disease due to organophosphate exposure. *Environ Int* 56:42-47.
- Lee SM, Papathakis ML, Feng HC, et al. 1991. Multipesticide residue method for fruits and vegetables: California Department of Food and Agriculture. *Fresenius J Anal Chem* 339:376-383.
- Leeder JS, Kearns GL. 1997. Pharmacogenetics in pediatrics: Implications for practice. *Pediatr Clin North Am* 44(1):55-77.

9. REFERENCES

- Leoni V. 1992. Multiresidue method for quantitation of organophosphorus pesticides in vegetable and animal foods. *J Assoc Off Anal Chem Int* 75(3):511-518.
- Lessire F, Gustin P, Delaunois A, et al. 1996. Relationship between parathion and paraoxon toxicokinetics, lung metabolic activity, and cholinesterase inhibition in guinea pig and rabbit lungs. *Toxicol Appl Pharmacol* 138(2):201-210.
- Leung H. 1993. Physiologically-based pharmacokinetic modelling. In: Ballantyne B, Marrs T, Turner P, eds. General and applied toxicology. Vol. 1. New York, NY: Stockton Press, 153-164.
- Levin ED, Timofeeva OA, Yang L, et al. 2010. Early postnatal parathion exposure in rats causes sex-selective cognitive impairment and neurotransmitter defects which emerge in aging. *Behav Brain Res* 208(2):319-327.
- Lewis RG, Lee RE, Jr. 1976. Air pollution from pesticides. In: Air pollution from pesticides and agricultural processes. Cleveland, OH: CRC Press, 5-51.
- Liao W, Joe T, Cusick WG. 1991. Multiresidue screening method for fresh fruits and vegetables with gas chromatographic/mass spectrometric detection. *J Assoc Off Anal Chem* 74(3):554-565.
- Liu J, Gupta RC, Goad JT, et al. 2007. Modulation of parathion toxicity by glucose feeding: Is nitric oxide involved? *Toxicol Appl Pharmacol* 219(2-3):106-113.
- Liu J, Karanth S, Pope C. 2005. Dietary modulation of parathion-induced neurotoxicity in adult and juvenile rats. *Toxicology* 210(2-3):135-145.
- Liu Y, Shen D, Li S, et al. 2016. Residue levels and risk assessment of pesticides in nuts of China. *Chemosphere* 144:645-651.
- Livingston AL. 1978. Forage plant estrogens. *J Toxicol Environ Health* 4(2-3):301-324.
- Lores EM, Bradway DE, Moseman RF. 1978. Organophosphorus pesticide poisonings in humans: Determination of residues and metabolites in tissues and urine. *Arch Environ Health* 33(5):270-276.
- Luke MA, Masumoto HT, Cairns T, et al. 1988. Levels and incidences of pesticide residues in various foods and animal feeds analyzed by the Luke Multiresidue Methodology for fiscal years 1982-1986. *J Assoc Off Anal Chem* 71(2):415-420.
- Ma T, Chambers JE. 1994. Kinetic parameters of desulfuration and dearylation of parathion and chlorpyrifos by rat liver microsomes. *Food Chem Toxicol* 32(8):763-767.
- MacCrawford J, Hoppin JA, Alavanja MCR, et al. 2008. Hearing loss among licensed pesticide applicators in the Agricultural Health Study. *J Occup Environ Med* 50(7):817-826.
- Maddy KT, Fong HR, Lowe JA, et al. 1982. A study of well water in selected California communities for residues of 1,3-dichloropropene, chloroallyl alcohol and 49 organophosphate or chlorinated hydrocarbon pesticides. *Bull Environ Contam Toxicol* 29(3):354-359.
- Maibach HI, Feldman RJ, Milby TH, et al. 1971. Regional variation in percutaneous penetration in man. Pesticides. *Arch Environ Health* 23(3):208-211.

9. REFERENCES

- Mamta, Rao RJ, Wani KA. 2015a. Concentration of organochlorine and organophosphorus pesticides in different molluscs from Tighra reservoir, Gwalior, India. Bull Environ Contam Toxicol 95:332-339.
- Mamta, Rao RJ, Wani KA. 2015b. Monitoring of organochlorine and organophosphorus pesticide residues in water during different seasons of Tighra reservoir Gwalior, Madhya Pragesh, India. Environ Monit Assess 187:684. 10.1007/s10661-015-4889-4.
- Mansour M, Thaller S, Korte F. 1983. Action of sunlight on parathion. Bull Environ Contam Toxicol 30(3):358-364.
- Manthripagada AD, Costello S, Cockburn MG, et al. 2010. Paraoxonase 1, agricultural organophosphate exposure, and Parkinson disease. Epidemiology 21(1):87-94.
- Maroni et al. 2000. Organophosphorous pesticides. Toxicology 143:9-37.
- Mattern GC, Louis JB, Rosen JD. 1991. Multipesticide determination in surface water by gas chromatography/chemical ionization/mass spectrometry/ion trap detection. J Assoc Off Anal Chem 74(6):982-986.
- Maxwell DM, Lenz DE, Groff WA, et al. 1987. The effects of blood flow and detoxification on *in vivo* cholinesterase inhibition by soman in rats. Toxicol Appl Pharmacol 88:66-76.
- Mayr U, Butsch A, Schneider S. 1992. Validation of two *in vitro* test systems for estrogenic activities with zearalenone, phytoestrogens and cereal extracts. Toxicology 74(2-3):135-149.
- Medina D, Prieto A, Ettiene G, et al. 1999. Persistence of organophosphorus pesticide residues in Limon River waters. Bull Environ Contam Toxicol 63:39-44.
- Mehrani H, Asadi B, Golmanesh L. 2008. Protective effects of mecamylamine and atropine against $\alpha_4\beta_2$ nicotinic receptor expression and functional toxicity in paraoxon-treated rats. Environ Toxicol Pharmacol 26: 247-254.
- Meylan WM, Howard PH. 1993. Computer estimation of the atmospheric gas-phase reaction rate of organic compounds with hydroxyl radicals and ozone. Chemosphere 26(12):2293-2299.
- Milby TH, Ottoboni F, Mitchell HW. 1964. Parathion residue poisoning among orchard workers. J Am Med Assoc 189(5):351-356.
- Miles JRW, Harris CR. 1978. Insecticide residues in organic soils of six vegetable growing areas in southwestern Ontario, 1976. J Environ Sci Health B13(3):199-209.
- Miles JRW, Tu CM, Harris CR. 1979. Persistence of eight organophosphorus insecticides in sterile and non-sterile mineral and organic soils. Bull Environ Contam Toxicol 22:312-318.
- Miller MA, Kasting GB. 2010. Toward a better understanding of pesticide dermal absorption: Diffusion model analysis of parathion absorption *in vitro* and *in vivo*. J Toxicol Environ Health A 73(4):284-300.
- Mingelgrin U, Gerstl Z. 1983. Reevaluation of partitioning as a mechanism of nonionic chemicals adsorption in soils. J Environ Qual 12(1):1-11.

9. REFERENCES

- Mohn G. 1973. 5-Methyltryptophan resistance mutations in *Escherichia coli* K-12. Mutagenic activity of monofunctional alkylating agents including organophosphorus insecticides. *Mutat Res* 20(1):7-15.
- Moody RP, Akram M, Dickson E, et al. 2007. *In vitro* dermal absorption of methyl salicylate, ethyl parathion, and malathion: First responder safety. *J Toxicol Environ Health A* 70(12):985-999.
- Moreale A, Van Bladel R. 1983. [Transport vertical de solutés vers les eaux souterraines. Une approche sur colonne de sol non perturbé]. *Rev Agric* 6:1669-1676. (French)
- Morgan DP, Hetzler HL, Slach EF, et al. 1977. Urinary excretion of paranitrophenol and alkyl phosphates following ingestion of methyl or ethyl parathion by human subjects. *Arch Environ Contam Toxicol* 6(2-3):159-173.
- Morselli PL, Franco-Morselli R, Bossi L. 1980. Clinical pharmacokinetics in newborns and infants: Age-related differences and therapeutic implications. *Clin Pharmacokinet* 5(6):485-527.
- Moser VC. 1995. Comparisons of the acute effects of cholinesterase inhibitors using a neurobehavioral screening battery in rats. *Neurotoxicol Teratol* 17(6):617-625.
- Mota LC, Hernandez JP, Baldwin WS. 2010. Constitutive androgen receptor-null mice are sensitive to the toxic effects of parathion: Association with reduced cytochrome p450-mediated parathion metabolism. *Drug Metab Dispos* 38(9):1582-1588.
- Musshoff F, Junker H, Madea B. 2002. Simple determination of 22 organophosphorous pesticides in human blood using headspace solid-phase microextraction and gas chromatography with mass spectrometric detection. *J Chromatogr Sci* 40:29-34.
- Mutch E, Williams FM. 2006. Diazinon, chlorpyrifos and parathion are metabolised by multiple cytochromes P450 in human liver. *Toxicology* 224(1-2):22-32.
- Mutch E, Blain PG, Williams FM. 1999. The role of metabolism in determining susceptibility to parathion toxicity in man. *Toxicol Lett* 107(1-3):177-187.
- Mutch E, Daly AK, Leathart JB, et al. 2003. Do multiple cytochrome P450 isoforms contribute to parathion metabolism in man? *Arch Toxicol* 77(6):313-320.
- Nabb DP, Stein WJ, Hayes WJ, Jr. 1966. Rate of skin absorption of parathion and paraoxon. *Arch Environ Health* 12(4):501-505.
- Namba T, Nolte CT, Jackrel J, et al. 1971. Poisoning due to organophosphate insecticides. Acute and chronic manifestations. *Am J Med* 50(4):475-492.
- NAS/NRC. 1989. Report of the oversight committee. Biologic markers in reproductive toxicology. National Academy of Sciences/National Research Council. Washington, DC: National Academy Press, 15-35.
- NCI. 1979. Bioassay of parathion for possible carcinogenicity. National Cancer Institute. Tech Rep Ser 70:1-123.
- Neal RA. 1967. Studies on the metabolism of diethyl 4-nitrophenyl phosphorothionate (parathion) *in vitro*. *Biochem J* 103(1):183-191.

9. REFERENCES

- Needham LL, Blount B, Rogers HS, et al. 2000. Levels of selected nonpersistent endocrine disrupters in humans. ACS Symp Ser 747(Analysis of Environmental Endocrine Disruptors):147-157.
- Nielsen P, Friis C, Gyrd-Hansen N, et al. 1991. Disposition of parathion in neonatal and young pigs. Pharmacol Toxicol 69(4):233-237.
- NIH. 2014. The Agricultural Health Study. National Institute of Health and National Institute of Environmental Health Sciences in collaboration with the U.S. Environmental Protection Agency and National Institute for Occupational Safety and Health. <http://aghealth.nih.gov/>. August 25, 2014.
- NIOSH. 1974. Inhalation and oral studies of ethyl parathion administered acutely and sub-acutely to the rat and dog. National Institute of Occupational Safety and Health.
- NIOSH. 1994. NIOSH manual of analytical methods. Method 5600 organophosphorus pesticides. National Institute of Occupational Safety and Health.
- NIOSH. 2009. Phosphorothioic acid, O,O-diethyl O-(p-nitrophenyl) ester. National Institute for Occupational Safety and Health. <http://www.cdc.gov/niosh-rtecs/tf456d70.html>. July 26, 2013.
- NIOSH. 2011. Parathion. NIOSH pocket guide to chemical hazards. Atlanta, GA: National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention. <http://www.cdc.gov/niosh/npg/>. April 24, 2013.
- NIOSH. 2013. Phosphorothioic acid, 0,0-diethyl 0-(p-nitrophenyl) ester. National Institute for Occupational Safety and Health. <http://www.cdc.gov/niosh-rtecs/tf456d70.html>. May 14, 2013.
- Nishino R, Fukuyama T, Tajima Y, et al. 2013. Prior oral exposure to environmental immunosuppressive chemicals methoxychlor, parathion, or piperonyl butoxide aggravates allergic airway inflammation in NC/Nga mice. Toxicology 309: 1-8. 10.1016/j.tox.2013.03.018.
- Nishio A, Uyeki EM. 1981. Induction of sister chromatid exchanges in Chinese hamster ovary cells by organophosphate insecticides and their oxygen analogs. J Toxicol Environ Health 8(5-6):939-946.
- Nisse P, Forceville X, Cezard C, et al. 1998. Intermediate syndrome with delayed distal polyneuropathy from ethyl parathion poisoning. Vet Hum Toxicol 40(6):349-352.
- Noort D, Hulst AG, van Zuylen A, et al. 2009. Covalent binding of organophosphorothioates to albumin: A new perspective for OP-pesticide biomonitoring? Arch Toxicol 83(11):1031-1036.
- Norman BJ, Neal RA. 1976. Examination of the metabolism *in vitro* of parathion (diethyl p-nitrophenyl phosphorothionate) by rat lung and brain. Biochem Pharmacol 25(1):37-45.
- NRC. 1993. Pesticides in the diets of infants and children. Washington, DC: National Research Council.
- NRC. 2004. Executive summary and recommendations. In: Intentional human dosing studies for EPA regulatory purposes: Scientific and ethical issues. National Research Council. National Academy of Sciences, 1-20. http://www.nap.edu/catalog.php?record_id=10927. May 14, 2014.

9. REFERENCES

- NTP. 2011. Report on carcinogens. 12th edition. Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service, National Toxicology Program. <http://ntp-server.niehs.nih.gov/ntp/roc/twelfth/roc12.pdf>. April 24, 2013.
- Olivier K, Liu J, Karanth S, et al. 2001. Glucose feeding exacerbates parathion-induced neurotoxicity. *J Toxicol Environ Health A* 63:253-271.
- Olsson AO, Nguyen JV, Sadowski MA, et al. 2003. A liquid chromatography/electrospray ionization-tandem mass spectrometry method for quantification of specific organophosphorus pesticide biomarkers in human urine. *Anal Bioanal Chem* 376(6):808-815.
- O'Neil MJ, Heckelman PE, Dobbelaar PH, et al. 2013. Parathion. In: O'Neil MJ, Heckelman PE, Dobbelaar PH, et al., eds. *The Merck index. An encyclopedia of chemicals, drugs, and biologicals.* 15th ed. Whitehouse Station, NJ: RSC Publishing, 1306.
- Oneto ML, Basack SB, Kesten EM. 1995. Total and conjugated urinary paranitrophenol after an acute parathion ingestion. *Sci Justice* 35(3):207-211.
- OSHA. 1986. Chlorpyrifos (dursban), DDVP (dichlorvos), diazinon, malathion, and parathion. Occupational Safety and Health Administration, U.S. Department of Labor. <http://www.osha.gov/dts/sltc/methods/organic/org062/org062.html>. March 02, 2006.
- OSHA. 2013a. List of highly hazardous chemicals, toxics, and reactives. Occupational safety and health standards. Occupational Safety and Health Administration. Code of Federal Regulations 29 CFR 1910.119, Appendix A. <http://www.osha.gov/law-reg.html>. April 24, 2013.
- OSHA. 2013b. Toxic and hazardous substances. Occupational safety and health standards. Occupational Safety and Health Administration. Code of Federal Regulations 29 CFR 1910.1000, Table Z-1. <http://www.osha.gov/law-reg.html>. April 24, 2013.
- Owen GM, Brozek J. 1966. Influence of age, sex and nutrition on body composition during childhood and adolescence. In: Falkner F, ed. *Human development*. Philadelphia, PA: WB Saunders, 222-238.
- Ownby DR, Trimble TA, Cole KA, et al. 2004. Pesticide residues in water, sediment, and fish at the Sparta, IL, USA, National Guard Armory. *Bull Environ Contam Toxicol* 73:802-809.
- Padungtod C, Savitz DA, Overstreet JW, et al. 2000. Occupational pesticide exposure and semen quality among Chinese workers. *J Occup Environ Med* 42(10):982-992.
- Pasquet J, Mazuret A, Fournel J, et al. 1976. Acute oral and percutaneous toxicity of phosalone in the rat, in comparison with azinphosmethyl and parathion. *Toxicol Appl Pharmacol* 37(1):85-92.
- Pauluhn J, Machemer L, Kimmerle G. 1987. Effects of inhaled cholinesterase inhibitors on bronchial tonus and on plasma and erythrocyte acetylcholine esterase activity in rats. *Toxicology* 46(2):177-190.
- Petriakovics I, Hong K, Omburo G, et al. 1999. Antagonism of paraoxon intoxication by recombinant phosphotriesterase encapsulated within sterically stabilized liposomes. *Toxicol Appl Pharmacol* 156(1):56-63.
- PhysProp. 2013. Parathion. <http://www.syrres.com/what-we-do/databaseforms.aspx?id=386>. June 05, 2013.

9. REFERENCES

- Pla A, Johnson MK. 1989. Degradation by rat tissues *in vitro* of organophosphorus esters which inhibit cholinesterase. *Biochem Pharmacol* 38(9):1527-1533.
- Plastourgou M, Hoffmann MR. 1984. Transformation and fate of organic esters in layered-flow systems: The role of trace metal catalysis. *Environ Sci Technol* 18(10):756-764.
- Poore RE, Neal RA. 1972. Evidence for extrahepatic metabolism of parathion. *Toxicol Appl Pharmacol* 23:759-768.
- Pope CN, Chakraborti TK. 1992. Dose-related inhibition of brain and plasma cholinesterase in neonatal and adult rats following sublethal organophosphate exposures. *Toxicology* 73(1):35-43.
- Pope CN, Chakraborti TK, Chapman ML, et al. 1991. Comparison of *in vivo* cholinesterase inhibition in neonatal and adult rats by three organophosphorothioate insecticides. *Toxicology* 68(1):51-61.
- Puga FR, Rodrigues MA. 1996. Evaluation of the role of formulation on parathion toxicity. *Ecotoxicol Environ Saf* 35(1):38-40.
- Qiao GL, Riviere JE. 1995. Significant effects of application site and occlusion on the pharmacokinetics of cutaneous penetration and biotransformation of parathion *in vivo* in swine. *J Pharm Sci* 84(4):425-432.
- Qiao GL, Brooks JD, Baynes RE, et al. 1996. The use of mechanistically defined chemical mixtures (MDCM) to assess component effects on the percutaneous absorption and cutaneous disposition of topically exposed chemicals. I. Studies with parathion mixtures in isolated perfused porcine skin. *Toxicol Appl Pharmacol* 141(2):473-486.
- Qiao GL, Williams PL, Riviere JE. 1994. Percutaneous absorption, biotransformation, and systemic disposition of parathion *in vivo* in swine. I. Comprehensive pharmacokinetic model. *Drug Metab Dispos* 22(3):459-471.
- Quinby GE, Lemmon AB. 1958. Parathion residues as a cause of poisoning in crop workers. *J Am Med Assoc* 166(7):740-746.
- Rao PSC, Hornsby AG, Jessup RE. 1985. Indices for ranking the potential for pesticide contamination of groundwater. *Proceedings of the Soil and Crop Science Society of Florida* 44:1-8.
- Rauh V, Arunajadai S, Horton M, et al. 2011. Seven-year neurodevelopmental scores and prenatal exposure to chlorpyrifos, a common agricultural pesticide. *Environ Health Perspect* 119(8):1196-1201.
- Reiler E, Jors E, Baelum J, et al. 2015. The influence of tomato processing on residues of organochlorine and organophosphate insecticides and their associated dietary risk. *Sci Total Environ* 527-528:262-269. 10.1016/j.scitotenv.2015.04.081.
- Reischl P, Van Gelder GA, Karas GG. 1975. Auditory detection behavior in parathion-treated squirrel monkeys (*Saimiri sciureus*). *Toxicol Appl Pharmacol* 34(1):88-101.
- Reiter L, Talens G, Woolley D. 1973. Acute and subacute parathion treatment: Effects on cholinesterase activities and learning in mice. *Toxicol Appl Pharmacol* 25(4):582-588.

9. REFERENCES

- Reiter LW, Talens GM, Woolley DE. 1975. Parathion administration in the monkey: Time course of inhibition and recovery of blood cholinesterases and visual discrimination performance. *Toxicol Appl Pharmacol* 33(1):1-13.
- Renhof M. 1984. Parathion. Study for embryotoxic effects on rats after oral administration. Report no. 12909. Wuppertal-Elberfeld: Bayer Institute of Toxicology.
- Renhof M. 1985. Parathion. Study for embryotoxic effects on rabbits after oral administration. Report no. 13288. Wuppertal-Elberfeld: Bayer Institute of Toxicology.
- RePORTER. 2013. Parathion. National Institutes of Health, Research Portfolio Online Reporting Tools. <http://projectreporter.nih.gov/reporter.cfm>. August 28, 2013.
- Rider JA, Moeller HC, Puletti EJ, et al. 1969. Toxicity of parathion, systox, octamethyl pyrophosphoramido, and methyl parathion in man. *Toxicol Appl Pharmacol* 14(3):603-611.
- Roy RR, Wilson PD, Laski RR, et al. 1997. Monitoring of domestic and imported apples and rice by the U.S. Food and Drug Administration Pesticide Program. *J Assoc Off Anal Chem Int* 80(4):883-894.
- Rupa DS, Rita P, Reddy PP, et al. 1988. Screening of chromosomal aberrations and sister chromatid exchanges in peripheral lymphocytes of vegetable garden workers. *Hum Toxicol* 7(4):333-336.
- Sabljić A, Güsten H, Verhaar H, et al. 1995. QSAR modelling of soil sorption. Improvements and systematics of log KOC vs. log KOW correlations. *Chemosphere* 31(11-12):4489-4514.
- Saffih-Hdadi K, Bruckler L, Barriuso E. 2003. Modeling of sorption and biodegradation of parathion and its metabolite paraoxon in soil. *J Environ Qual* 32:2207-2211.
- Sakellarides TM, Siskos MG, Albanis TA. 2003. Photodegradation of selected organophosphorus insecticides under sunlight in different natural waters and soils. *Int J Environ Anal Chem* 83(1):33-50.
- Saltzman S, Mingelgrin U. 1984. Nonbiological degradation of pesticides in the unsaturated zone. *Ecol Stud* 47:153-161.
- Sanders PF, Seiber JN. 1983. A chamber for measuring volatilization of pesticides from model soil and water disposal systems. *Chemosphere* 12(7/8):999-1012.
- Sanders PF, Seiber JN. 1984. Organophosphorus pesticide volatilization. Model soil pits and evaporation ponds. *ACS Symposium Series. Treatment and disposal of pesticide wastes* 259:279-295.
- Saunders NR, Ek CJ, Habgood MD, et al. 2008. Barriers in the brain: A renaissance? *Trends Neurosci* 31(6):279-286. 10.1016/j.tins.2008.03.003.
- Saunders NR, Liddelow SA, Dziegielewska KM. 2012. Barrier mechanisms in the developing brain. *Front Pharmacol* 3(10.3389/fphar.2012.00046):Article 46. 10.3389/fphar.2012.00046.
- Schattenberg HJ, III, Hsu JP. 1992. Pesticide residue survey of produce from 1989 to 1991. *J AOAC Int* 75(5):925-933.
- Scheuplein R, Charnley G, Dourson M. 2002. Differential sensitivity of children and adults to chemical toxicity. I. Biological basis. *Regul Toxicol Pharmacol* 35(3):429-447.

9. REFERENCES

- Schulze JA, Manigold DB, Andrews FL. 1973. Pesticides in water. Pesticides in selected western streams, 1968-1971. *Pestic Monit J* 7(1):73-84.
- Schuurmann G, Ebert R, Kuhne R. 2006. Prediction of the sorption of organic compounds into soil organic matter from molecular structure. *Environ Sci Technol* 40(22):7005-7011.
- Seiber JN, Woodrow JE. 1984. Airborne residues and human exposure. *Stud Environ Sci* 24:133-146.
- Seiber JN, Glotfelty DE, Lucas AD, et al. 1990. A multiresidue method by high performance liquid chromatography-based fractionation and gas chromatographic determination of trace levels of pesticides in air and water. *Arch Environ Contam Toxicol* 19:583-592.
- Seiber JN, Wilson BW, McChesney MM. 1993. Air and fog deposition of four organophosphate insecticides used on dormant orchards in the San Joaquin Valley, California. *Environ Sci Technol* 27(10):2236-2243.
- Senanayake N, Karalliedde L. 1987. Neurotoxic effects of organophosphorus insecticides. *N Engl J Med* 316:761-763.
- Sethunathan N, Siddaramappa R, Rajaram KP, et al. 1977. Parathion: Residues in soil and water. *Residue Rev* 68:91-122.
- Sharom MS, Miles JRW, Harris CR, et al. 1980. Behavior of 12 insecticides in soil and aqueous suspensions of soil and sediment. *Water Res* 14:1095-1100.
- Shehata-Karam H, Monteiro-Riviere NA, Guthrie FE. 1988. *In vitro* penetration of pesticides through human newborn foreskin. *Toxicol Lett* 40(3):233-239.
- Sigma-Aldrich. 2014. Parathion. 45607 Fluka. Sigma-Aldrich Co., LLC.
<http://www.sigmaaldrich.com/catalog/product/fluka/45607?lang=en®ion=US>. August 25, 2014.
- Simcox NJ, Fenske RA, Wolz SA, et al. 1995. Pesticides in household dust and soil: Exposure pathways for children of agricultural families. *Environ Health Perspect* 103(12):1126-1134.
- Simmon VF, Poole DC, Newell GW. 1976. *In vitro* mutagenic studies of twenty pesticides. *Toxicol Appl Pharmacol* 37:109.
- Slotkin TA. 2011. Does early-life exposure to organophosphate insecticides lead to prediabetes and obesity? *Reprod Toxicol* 31(3):297-301.
- Slotkin TA, Bodwell BE, Ryde IT, et al. 2008. Exposure of neonatal rats to parathion elicits sex-selective impairment of acetylcholine systems in brain regions during adolescence and adulthood. *Environ Health Perspect* 116(10):1308-1314.
- Slotkin TA, Lassiter TL, Ryde IT, et al. 2009c. Consumption of a high-fat diet in adulthood ameliorates the effects of neonatal parathion exposure on acetylcholine systems in rat brain regions. *Environ Health Perspect* 117(6):916-922.

9. REFERENCES

- Slotkin TA, Levin ED, Seidler FJ. 2006a. Comparative developmental neurotoxicity of organophosphate insecticides: Effects on brain development are separable from systemic toxicity. *Environ Health Perspect* 114(5):746-751.
- Slotkin TA, Levin ED, Seidler FJ. 2009a. Developmental neurotoxicity of parathion: Progressive effects on serotonergic systems in adolescence and adulthood. *Neurotoxicol Teratol* 31(1):11-17.
- Slotkin TA, Tate CA, Ryde IT, et al. 2006b. Organophosphate insecticides target the serotonergic system in developing rat brain regions: Disparate effects of diazinon and parathion at doses spanning the threshold for cholinesterase inhibition. *Environ Health Perspect* 114(10):1542-1546.
- Slotkin TA, Wrench N, Ryde IT, et al. 2009b. Neonatal parathion exposure disrupts serotonin and dopamine synaptic function in rat brain regions: Modulation by a high-fat diet in adulthood. *Neurotoxicol Teratol* 31(6):390-399.
- Spencer WF, Shoup TD, Clisth MM, et al. 1979. Vapor pressures and relative volatility of ethyl and methyl parathion. *J Agric Food Chem* 27(2):273-278.
- Srivastava SP, Agarwal DK, Mushtaq M, et al. 1976. Interaction of di-2-ethylhexyl phthalate (DEHP) with parathion in rats. *Chemosphere* 5(3):177-181.
- Stamper CR, Balduini W, Murphy SD, et al. 1988. Behavioral and biochemical effects of postnatal parathion exposure in the rat. *Neurotoxicol Teratol* 10(3):261-266.
- Stanley CW, Barney JE, Helton MR, et al. 1971. Measurement of atmospheric levels of pesticides. *Environ Sci Technol* 5(5):430-435.
- Starks SE, Gerr F, Kamel F, et al. 2012a. Neurobehavioral function and organophosphate insecticide use among pesticide applicators in the Agricultural Health Study. *Neurotoxicol Teratol* 34(1):168-176. 10.1016/j.ntt.2011.08.014.
- Starks SE, Hoppin JA, Kamel F, et al. 2012b. Peripheral nervous system function and organophosphate pesticide use among licensed pesticide applicators in the Agricultural Health Study. *Environ Health Perspect* 120(4): 515-520.
- Starling AP, Umbach DM, KAmel F, et al. 2014. Pesticide use and incident diabetes among wives of farmers in the Agricultural Health Study. *Occup Environ Med* 71(9):629-635. 10.1136/oemed-2013-101659.
- Steiniger D, Lu G, Butler J, et al. 2010. Determination of multiresidue pesticides in green tea by using a modified QuEChERS extraction and ion-trap gas chromatography/mass spectrometry. *J AOAC Int* 93(4):1169-1179.
- Stewart DKR, Chisholm, Regab MTH. 1971. Long term persistence of parathion in soil. *Nature* 229(5279):7.
- Sullivan JB, Krieger GR. 2001. Clinical environmental health and toxic exposures. Philadelphia, PA: Lippincott Williams & Wilkins, 1053.
- Sultatos LG. 1986. The effects of phenobarbital pretreatment on the metabolism and acute toxicity of the pesticide parathion in the mouse. *Toxicol Appl Pharmacol* 86(1):105-111.

9. REFERENCES

- Sultatos LG. 1990. A physiologically based pharmacokinetic model of parathion based on chemical-specific parameters determined *in vitro*. *J Am Coll Toxicol* 9(6):611-619.
- Sultatos LG. 1994. Mammalian toxicology of organophosphorus pesticides. *J Toxicol Environ Health* 43:271-289.
- Sultatos LG, Minor LD. 1986. Factors affecting the biotransformation of the pesticide parathion by the isolated perfused mouse liver. *Drug Metab Dispos* 14(2):214-220.
- Swoboda AR, Thomas GW. 1968. Movement of parathion in soil columns. *J Agric Food Chem* 16(6):923-927. 10.1021/jf60160a018.
- Tafuri J, Roberts J. 1987. Organophosphate poisoning. *Ann Emerg Med* 16:193-202.
- Tamura H, Yoshikawa H, Gaido KW, et al. 2003. Interaction of organophosphate pesticides and related compounds with the androgen receptor. *Environ Health Perspect* 111(4):545-552.
- Tang J, Rose RL, Chambers JE. 2006. Metabolism of organophosphorus and carbamate pesticides. In: Gupta RC, ed. *Toxicology of organophosphate and carbamate compounds*. Burlington, MA: Elsevier Academic Press, 127-143.
- Tateishi T, Nakura H, Asoh M, et al. 1997. A comparison of hepatic cytochrome P450 protein expression between infancy and postinfancy. *Life Sci* 61(26):2567-2574.
- Tessari JD, Spencer DL. 1971. Air sampling for pesticides in the human environment. *J Assoc Off Anal Chem* 54(6):1376-1382.
- Thomas JA, Schein LG. 1974. Effect of parathion on the uptake and metabolism of androgens in rodent sex accessory organs. *Toxicol Appl Pharmacol* 29:53-58.
- Thomas K, Colborn T. 1992. Organochlorine endocrine disruptors in human tissue. In: Colborn T, Clement C, eds. *Chemically induced alterations in sexual and functional development: The wildlife/human connection*. Princeton, NJ: Princeton Scientific Publishing, 365-394.
- Timofeeva OA, Sanders D, Seemann K, et al. 2008. Persistent behavioral alterations in rats neonatally exposed to low doses of the organophosphate pesticide, parathion. *Brain Res Bull* 77(6):404-411.
- Tomlin CDS. 2010. Parathion. In: *The e-pesticide manual*. 15th ed. British Crop Production Council.
- Toyoda M, Adachi K, Ida T, et al. 1990. Simple analytical method for organophosphorus pesticide residues in milk. *J Assoc Off Anal Chem* 73(5):770-772.
- TRI14 2015. TRI explorer: Providing access to EPA's toxics release inventory data. Washington, DC: Office of Information Analysis and Access. Office of Environmental Information. U.S. Environmental Protection Agency. Toxics Release Inventory. <http://www.epa.gov/triexplorer/>. October 21, 2015.
- Triolo AJ, Coon JM. 1966. The protective effect of aldrin against the toxicity of organophosphate anticholinesterases. *J Pharmacol Exp Ther* 154(3):613-623.

9. REFERENCES

- Tsachalinas D, Logaras, Paradelis A. 1971. Observations on two hundred forty six cases of acute poisoning with parathion in Greece. *Eur J Toxicol* 4:46-49.
- Tsuda T, Aoki S, Inoue T, et al. 1995. Accumulation of IBP, parathion and EPN by killifish: Comparison of individual and mixed pesticides. *Comp Biochem Physiol C* 111(1):19-22.
- USDA. 2016. Pesticide data program. Annual summary, calendar year 2014. U.S. Department of Agriculture.
<https://www.ams.usda.gov/sites/default/files/media/2014%20PDP%20Annual%20Summary.pdf>. February 25, 2016.
- USGS. 2002a. Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory. Determination of organophosphate pesticides in filtered water by gas chromatography with flame photometric detection. Water-resource investigation report 02-4071. U.S. Geological Survey, U.S. Department of the Interior.
- USGS. 2002b. Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory. Determination of organophosphate pesticides in whole water by continuous liquid-liquid extraction and capillary-column gas chromatography with flame photometric detection. U.S. Geological Survey Method 0-3402-03. U.S. Geological Survey, U.S. Department of the Interior.
- USGS. 2002c. Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory. Determination of organophosphate pesticides in bottom sediment by gas chromatography with flame photometric detection. Water-resources investigation report 02-4222. U.S. Geological Survey, U.S. Department of the Interior.
- USGS. 2007. Pesticides in the nation's streams and ground water, 1992-2001. U.S. Geological Survey, National Water-Quality Assessment Program.
- van den Beukel I, van Kleef RG, Oortgiesen M. 1998. Differential effects of physostigmine and organophosphates on nicotinic receptors in neuronal cells of different species. *Neurotoxicology* 19(6):777-787.
- van der Merwe D, Brooks JD, Gehring R, et al. 2006. A physiologically based pharmacokinetic model of organophosphate dermal absorption. *Toxicol Sci* 89(1):188-204.
- Velasco A, Hernández S, Ramírez M, et al. 2014. Detection of residual organochlorine and organophosphorus pesticides in agricultural soil in Rio Verde region of San Luis Potosi, Mexico. *J Environ Sci Health B* 49(7):498-504. 10.1080/03601234.2014.896670.
- Veronesi B, Pope C. 1990. The neurotoxicity of parathion-induced acetylcholinesterase inhibition in neonatal rats. *Neurotoxicology* 11(4):609-626.
- Vieira I, Sonnier M, Cresteil T. 1996. Developmental expression of CYP2E1 in the human liver: Hypermethylation control of gene expression during the neonatal period. *Eur J Biochem* 238(2):476-483.
- Villeneuve DC, Grant DL, Phillips WE, et al. 1971. Effects of PCB administration on microsomal enzyme activity in pregnant rabbits. *Bull Environ Contam Toxicol* 6(2):120-128.
- Villeneuve DC, vanLogten MJ, denTonkelaar EM, et al. 1978. The combined effect of food restriction and parathion exposure in rats. *Arch Environ Contam Toxicol* 7(1):37-45.

9. REFERENCES

- Vogtmann H, Fragstein PV, Draeger P. 1983. The degradation of agrochemicals during composting. Second International Symposium Bet Degan, Israel, 357-377.
- Wade MJ. 1979. Organophosphorus pesticides in the marine environment: Their transport and fate. Diss Abst Int 40:4704-4705.
- Waldron AC. 1974. Pesticide movement from cropland into Lake Erie. Washington, DC: U.S. Environmental Protection Agency, Office of Research and Development.
- Wallace KB, Dargan JE. 1987. Intrinsic metabolic clearance of parathion and paraoxon by livers from fish and rodents. Toxicol Appl Pharmacol 90:235-242.
- Wan MT, Szeto S, Price P. 1994. Organophosphorus insecticide residues in farm ditches of the Lower Fraser Valley of British Columbia. J Environ Sci Health B29(5):917-949.
- Wan MT, Szeto SY, Price P. 1995. Distribution and persistence of azinphos-methyl and parathion in chemigated cranberry bogs. J Environ Qual 24:589-596.
- Ware GW, Morgan DP, Estesen BJ, et al. 1973. Establishment of reentry intervals for organophosphate-treated cotton fields based on human data. I. Ethyl- and methyl parathion. Arch Environ Contam Toxicol 1(1):48-59.
- Ware GW, Morgan DP, Estesen BJ, et al. 1974. Establishment of reentry intervals for organophosphate-treated cotton fields based on human data. II. Azodrin, ethyl and methylparathion. Arch Environ Contam Toxicol 2(2):117-129.
- Weitman SD, Vodicnik MJ, Lech JJ. 1983. Influence of pregnancy on parathion toxicity and disposition. Toxicol Appl Pharmacol 71(2):215-224.
- Weitman SD, Vodicnik MJ, Lech JJ. 1986. Mechanism of enhanced parathion-paraoxon toxicity during pregnancy in the mouse. Fundam Appl Toxicol 6(1):155-161.
- West JR, Smith HW, Chasis H. 1948. Glomerular filtration rate, effective renal blood flow, and maximal tubular excretory capacity in infancy. J Pediatr 32:10-18.
- Wester RC, Maibach HI. 1985. *In vivo* percutaneous absorption and decontamination of pesticides in humans. J Toxicol Environ Health 16:25-37.
- Wester RM, Tanojo H, Maibach HI, et al. 2000. Predicted chemical warfare agent VX toxicity to uniformed soldier using parathion *in vitro* human skin exposure and absorption. Toxicol Appl Pharmacol 168(2):149-152.
- WHO. 2005. The WHO recommended classification of pesticides by hazard and guidelines to classification 2004. Geneva, Switzerland: World Health Organization.
- WHO. 2010. Guidelines for indoor air quality: Selected pollutants. Geneva, Switzerland: World Health Organization. http://www.euro.who.int/__data/assets/pdf_file/0009/128169/e94535.pdf. April 24, 2013.

9. REFERENCES

- WHO. 2011. Guidelines for drinking-water quality. 4th Edition. Geneva, Switzerland: World Health Organization.
http://www.who.int/water_sanitation_health/publications/2011/dwq_guidelines/en/index.html. April 24, 2013.
- Widdowson EM, Dickerson JWT. 1964. Chemical composition of the body. In: Comar CL, Bronner F, eds. Mineral metabolism: An advance treatise. Volume II: The elements Part A. New York, NY: Academic Press, 1-247.
- Williams PL, Carver MP, Riviere JE. 1990. A physiologically relevant pharmacokinetic model of xenobiotic percutaneous absorption utilizing the isolated perfused porcine skin flap. *J Pharm Sci* 79(4):305-311.
- Wiltrot RW, Ercegovich CD, Ceglowski WS. 1978. Humoral immunity in mice following oral administration of selected pesticides. *Bull Environ Contam Toxicol* 20(3):423-431.
- Winterlin W, Seiber JN, Craigmill A, et al. 1989. Degradation of pesticide waste taken from a highly contaminated soil evaporation pit in California. *Arch Environ Contam Toxicol* 18:734-747.
- Wishahi A, Aboul-Dahab YW, Sherif Y, et al. 1958. Parathion poisoning (phosphorus compound): A report on 22 children in an outbreak. *Arch Pediatr* 75(9):387-396.
- Wolfe HR. 1976. Field exposure to airborne pesticides. In: Air pollution pesticides and agricultural processes. Cleveland, OH: CRC Press, 137-163.
- Wolfe HR, Durham WF, Armstrong JF. 1967. Exposure of workers to pesticides. *Arch Environ Health* 14:622-633.
- Wolfe HR, Durham WF, Armstrong JF. 1970. Urinary excretion of insecticide metabolites. Excretion of para-nitrophenol and DDA as indicators of exposure to parathion. *Arch Environ Health* 21(6):711-716.
- Wolfe HR, Staiff DC, Armstrong JF, et al. 1973. Persistence of parathion in soil. *Bull Environ Contam Toxicol* 10(1):1-9.
- Woodrow JE, Crosby DG, Mast T, et al. 1978. Rates of transformation of trifluralin and parathion vapors in air. *J Agric Food Chem* 26(6):1312-1316.
- Woodrow JE, Crosby DG, Seiber JN. 1983. Vapor-phase photochemistry of pesticides. *Residue Rev* 85:111-125.
- Xu LC, Liu L, Ren XM, et al. 2008. Evaluation of androgen receptor transcriptional activities of some pesticides *in vitro*. *Toxicology* 243(1-2):59-65.
- Yang L, Li H, Zeng FQ, et al. 2012. Determination of 49 organophosphorus pesticide residues and their metabolites in fish, egg, and milk by dual gas chromatography- dual pulse flame photometric detection with gel permeation chromatography cleanup. *J Agric Food Chem* 60:1906-1913. 10.1021/jf2043828.
- Yao Y, Harner T, Blanchard P, et al. 2008. Pesticides in the atmosphere across Canadian agricultural regions. *Environ Sci Technol* 42(16):5931-5937.
- Yaron B. 1975. Chemical conversion of parathion on soil surfaces. *Soil Sci Soc Am Proc* 39:639-643.

9. REFERENCES

- Yasoshima M, Masuda Y. 1986. Effect of carbon disulfide on the anticholinesterase action of several organophosphorus insecticides in mice. *Toxicol Lett* 32(3):179-184.
- Yess NJ, Gunderson EL, Roy RR. 1993. U.S. Food and Drug Administration monitoring of pesticide residues in infant foods and adult foods eaten by infants/children. *J Assoc Off Anal Chem Int* 76(3):492-507.
- Zabik JM, Seiber JN. 1993. Atmospheric transport of organophosphate pesticides from California's Central Valley to the Sierra Nevada Mountains. *J Environ Qual* 22:80-90.
- Zegers BN, Hogenboom AC, Dekkers SEG, et al. 1994. Packed capillary supercritical fluid chromatography of organophosphorus pesticides: Selective detection and applications. *J Microcol Sep* 6(1):55-62.
- Zepp RG, Baughman GL. 1978. Prediction of photochemical transformation of pollutants in the aquatic environment. In: Hutzinger O, Van Lelyveld IH, Zoeteman BCJ, eds. *Aquatic pollutants. Transformation and biological effects*. Oxford: Pergamon Press, 237-263.
- Zhang HX, Sultatos LG. 1991. Biotransformation of the organophosphorus insecticides parathion and methyl parathion in male and female rat livers perfused *in situ*. *Drug Metab Dispos* 19(2):473-477.
- Zhao X, Hwang HM. 2009. A study of the degradation of organophosphorus pesticides in river waters and the identification of their degradation products by chromatography coupled with mass spectrometry. *Arch Environ Contam Toxicol* 56(4):646-653.
- Ziegler EE, Edwards BB, Jensen RL, et al. 1978. Absorption and retention of lead by infants. *Pediatr Res* 12(1):29-34.