LITERATURE SEARCH PRODUCT FOR THE TOXICOLOGICAL REVIEW

OF

ACRYLONITRILE

(CASRN 107-13-1)

In Support of Summary Information on the Integrated Risk Information System (IRIS)

June 2012

This is a list of references (presented in alphabetical order) that are being considered in the development of the IRIS acrylonitrile assessment.

(1976). MCA reports on acrylonitrile teratology study. Food Chemical News 18(35): 8.

(1978). Comments on Milvy's letter on acrylonitrile mutagenicity. Mutation Research 57(1): 113.

(1985). Epidemiologic study of mortality and cancer incidence among workers exposed to acrylonitrile at the Waynesboro plant with cover letter dated 022185.

(1986). Brain tumors in man and animals: report of a workshop. Environmental Health Perspectives 68: 155-173.

(1991). Initial submission: Acute percutaneous absorbtion potential of two samples of acrylonitrile (final report) with cover letter dated 102591 (sanitized).

(1991). Initial submission: Acrylonitrile inhalation exposure study in rats: results after six and 12 months (final report) with cover letter dated 102591 (sanitized).

(1991). Initial submission: Teratologic evaluation of inhaled acrylonitrile monomer in rats (final report) with cover letter dated 10/25/1991 (sanitized).

(1992). Initial submission: Acute inhalation toxicity of Acrylonitrile in Sprague-Dawley Rats with cover letter dated 08/10/1992.

(1992). Initial submission: Teratologic evaluation of inhaled acrylonitrile monomer in rats with cover letter dated 061792.

(1993). Final Report on the Developmental Toxicity of Methacrylonitrile (CAS No. 126-98-7) in New Zealand White Rabbits. Laboratory Supplement, National Institute of Environmental Health Sciences (NIEHS).

(2003). [Acrylonitrile induced poisoning effects on male reproductive system from occupational exposure]. Zhonghua Laodong Weisheng Zhiyebing Zazhi 21(4): 281-282.

Abadin, H. G., H. E. Murray, et al. (1998). The use of hematological effects in the development of minimal risk levels. Regulatory Toxicology and Pharmacology 28(1): 61-66.

Abdel-Aziz, A. H., A. B. Abdel-Naim, et al. (1997). In-vitro testicular bioactivation of acrylonitrile. Pharmacological Research 35(2): 129-134.

Abdel-Rahman, S. Z., M. M. Ammenheuser, et al. (2001). Human sensitivity to 1,3-butadiene: role of microsomal epoxide hydrolase polymorphisms. Carcinogenesis 22(3): 415-423.

Abdel-Rahman, S. Z., R. A. El-Zein, et al. (2003). Variability in human sensitivity to 1,3-butadiene: Influence of the allelic variants of the microsomal epoxide hydrolase gene. Environmental and Molecular Mutagenesis 41(2): 140-146.

Abdel-Rahman, S. Z., A. M. Nouraldeen, et al. (1994). Acrylonitrile-induced reversible inhibition of uridine uptake by isolated rat intestinal epithelial cells. Toxicology In Vitro 8(2): 139-143.

Abdel-Rahman, S. Z., A. M. Nouraldeen, et al. (1994). Molecular interaction of [2,3-14C] acrylonitrile with DNA in gastric tissue of rat. Journal of Biochemical Toxicology 9(4): 191-198.

Abernethy, D. J. and C. J. Boreiko (1987). Acrylonitrile and acrylamide fail to transform C3H/10T1/2 cells. Environmental Mutagenesis 9(Suppl 8): 2.

Abo-Salem, O. M., M. F. Abd-Ellah, et al. (2011). Hepatoprotective activity of quercetin against acrylonitrile-induced hepatotoxicity in rats. Journal of Biochemical and Molecular Toxicology 25(6): 386-392.

Abreu, M. E. and A. E. Ahmed (1980). Metabolism of acrylonitrile to cyanide. In vitro studies. Drug Metabolism and Disposition 8(6): 376-379.

ACGIH (1991). Documentation of the threshold limit values and biological exposure indices Acrylonitrile. Cincinnati, OH.

ACGIH (1991). Documentation of the threshold limit values and biological exposure indices Methylacrylonitrile. Cincinnati, OH.

ACGIH (2001). Documentation of the threshold limit values and biological exposure indices Acrylonitrile. Cincinnati, OH.

ACGIH (2006). Documentation of the threshold limit values and biological exposure indices. Cincinnati, OH.

Ahmed, A. E., A. H. Abdel-Aziz, et al. (1992). Pulmonary toxicity of acrylonitrile: Covalent interaction and effect on replicative and unscheduled DNA synthesis in the lung. Toxicology 76(1): 1-14.

Ahmed, A. E., S. Z. Abdel-Rahman, et al. (1992). Acrylonitrile interaction with testicular DNA in rats. Journal of Biochemical Toxicology 7(1): 5-11.

Ahmed, A. E. and M. E. Abreu (1981). Microsomal metabolism of acrylonitrile in liver and brain. Advances in Experimental Medicine and Biology 136B: 1229-1238.

Ahmed, A. E. and M. Y. Farooqui (1982). Comparative toxicities of aliphatic nitriles. Toxicology Letters 12(2-3): 157-163.

Ahmed, A. E., M. Y. Farooqui, et al. (1983). Comparative toxicokinetics of 2,3-14C-and 1-14C-acrylonitrile in the rat. Journal of Applied Toxicology 3(1): 39-47.

Ahmed, A. E. and M. Y. H. Farooqui, Eds. (1984). Molecular interaction of acrylonitrile at target sites of carcinogenicity in rats. Berlin, Germany, Springer-Verlag.

Ahmed, A. E., M. Y. H. Farooqui, et al. (1982). Distribution and covalent interactions of [1-14C] acrylonitrile in the rat. Toxicology 23: 159-175.

Ahmed, A. E., F. M. A. Hamada, et al. (1993). Immunotoxicity of acrylonitrile: Flow cytometric study of spleen lymphocyte subsets and the plaque forming cells response in immunized mice. Journal of Biomedical and Science Therapeutics 9: 139-161.

Ahmed, A. E., S. Jacob, et al. (1996). Comparative disposition of acrylonitrile and methacrylonitrile: quantitative whole-body autoradiographic studies in rats. Fundamental and Applied Toxicology 33(1): 49-59.

Ahmed, A. E., A. M. Nouraldeen, et al. (1996). Role of glutathione modulation in acrylonitrile-induced gastric DNA damage in rats. Archives of Toxicology 70(10): 620-627.

Ahmed, A. E. and K. Patel (1981). Acrylonitrile: in vivo metabolism in rats and mice. Drug Metabolism and Disposition 9: 219-222.

Ahmed, A. F., K. Patel, et al. (1980). Comparative toxicity of aliphatic nitriles. Toxicology Letters Spec Issue 1: 214.

Albert, D. M., W. C. Frayer, et al. (1986). The harderian gland: its tumors and its relevance to humans. Transactions of the American Ophthalmological Society 84: 321-341.

Al'shanskiĭ, A. M., V. V. Ivanov, et al. (1980). [Effect of acrylonitrile on gamma-aminobutyric acid levels, glutamate decarboxylase activity, and lipid peroxidation in rat brain]. Voprosy Meditsinskoĭ Khimii 26(4): 507-509.

Amacher, E. and G. Turner (1985). Tests for gene mutational activity in the L5158Y/TK assay system. Progress in Mutation Research 5: 487-496.

American, C. (1982). Acrylonitrile mutagenicity.

American, C. (2000). Preliminary data on workers health and exposure to acrylonitrile. Bound Brook, NJ.

AN Group. (2000). Initial submission: Letter from Acrylonitrile (AN) group to USEPA RE 4 unpublished surveys of Chinese chemical industry worker exposure to Acrylonitrile, w/attachments & dated 04/26/2000.

AN Group. (2000). Support: Letter from Acrylonitrile (AN) Group Inc. to USEPA re articles and data of related acrylonitrile exposure to Chinese workers, w/attachments and dated 9/15/00.

AN Group. (2000). Support: Publication: Effects of acrylonitrile on the immune function in mice. Washington, DC, The Acrylonitrile Group.

AN Group. (2003). [Letter from the AN Group to the U.S. Environmental Protection Agency regarding three additional Chinese articles and English translations].

AN Group. (2004). Toxicological review of acrylonitrile (CAS No. 107-13-1). Dayton, OH, Sapphire Group.

AN Group. (2005). [Letter from the AN Group to the U.S. Environmental Protection Agency: Preliminary information regarding irritation effects observed in the nasal tissues of male and female rats exposed to acrylonitrile (AN)]. Washington, DC, U.S. Environmental Protection Agency.

Andersen, M. E. (1991). Physiological modelling of organic compounds. Annals of Occupational Hygiene 35(3): 309-321.

Anderson, D. and M. F. Cross (1985). Suitability of the P388F mouse lymphoma system for detecting potential carcinogens and mutagens. Food and Chemical Toxicology 23(1): 115-118.

Angelosanto, F. A., G. R. Blackburn, et al. (1996). Benzene induces a dose-responsive increase in the frequency of micronucleated cells in rat Zymbal glands. Environmental Health Perspectives 104: 1331-1336.

Appel, K. E. and H. M. Bolt (1981). Effect of antidotes in acute acrylonitrile poisoning. Naunyn-Schmiedeberg's Archives of Pharmacology 316(Suppl): R15.

Appel, K. E., H. Peter, et al. (1981). Effect of potential antidotes on the acute toxicity of acrylonitrile. International Archives of Occupational and Environmental Health 49: 157-163.

Appel, K. E., H. Peter, et al. (1981). Interaction of acrylonitrile with hepatic microsomes of rats and men. Toxicology Letters 7(4-5): 335-339.

Arni, P., Ed. (1985). Induction of various genetic effects in the yeast saccharomyces-cerevisiae strain D-7. Amsterdam, The Netherlands, Elsevier.

Aronstam, R. S., L. G. Abood, et al. (1978). Influence of sulfhydryl reagents and heavy metals on the functional state of the muscarinic acetylcholine receptor in rat brain. Molecular Pharmacology 14(4): 575-586.

Asami, R., M. Atobe, et al. (2006). Ultrasonic effects on electroorganic processes. Part 27. Electroreduction of acrylonitrile at suspended lead particle-electrode. Ultrasonics Sonochemistry 13(1): 19-23.

Ashby, J., F. J. de Serres, et al., Eds. (1985). Progress in mutation research, vol. 5. Evaluation of short-term tests for carcinogens: Report of the International Programme on Chemical Safety's collaborative study on in vitro assays. Amsterdam, The Netherlands, Elsevier.

ATSDR (1968). Mutagenic activity of some drugs and pesticides. Drosophila Information Service 164: 164.

ATSDR (1969). Mutagenic activity of some pesticides in Drosophila melanogaster. Industrial Medicine and Surgery 12(12): 50-52.

ATSDR (1978). Acute biotoxic effect of styrene on rat liver. Correlation with enzyme-mediated mutagenicity of benzpyrene and acrylonitrile. Scandinavian Journal of Work, Environment and Health SUPPL 2(SUPPL 2): 163-168.

ATSDR (1980). Screening of tabacco smoke constituents for mutagenicity using the Ames' test. Toxicology 219: 219-232.

ATSDR (1988). Lack of genotoxic activity of acrylonitrile to human bronchial epithelial cellsgrown in culture and in xenografted tracheas. Environmental and Molecular Mutagenesis SUPPL 11(SUPPL 11): 46.

ATSDR (1989). Toxicological profile for acrylonitrile [draft]. Atlanta, GA, U.S. Department of Health and Human Services, Public Health Service.

ATSDR (1990). Toxicological profile for acrylonitrile. Atlanta, GA, U.S. Department of Health and Human Services, Public Health Service. S.

ATSDR (1993). Chinese Journal of Pharmacology and Toxicology / Zhong Guo Yao Li Xue Yu Du Li Xue Za Zhi Chinese Journal of Pharmacology and Toxicology(Chinese Journal of Pharmacology and Toxicology).

ATSDR (1997). A weight-of-evidence review of acrylonitrile reproductive and developmental toxicity. Toxicologist 36(1 Pt 2).

ATSDR (1998). Evaluation of the rat micronucleus test with bone marrow and peripheral blood: Summary of the 9th collaborative study by CSGMT MMS. Environmental and Molecular Mutagenesis 32(1): 84-100.

ATSDR (2001). Zhongguo Gonggong Weisheng / Chinese Journal of Public Health Kuo Kung Kung Wei Sheng (China Public Health).

ATSDR (2006). Zhongguo Gonggong Weisheng / Chinese Journal of Public Health Kuo Kung Kung Wei Sheng (China Public Health).

Ayer, H. E., Ed. (1975). Epidemiologic studies of occupational diseases. New York, NY, Academic Press.

Azari, S., M. Karimi, et al. (2010). Structural Properties of the Poly(acrylonitrile) Membrane Prepared with Different Cast Thicknesses. Industrial and Engineering Chemistry Research 49(5): 2442-2448.

Babanov, G. P., V. N. Kijuchikov, et al. (1959). Clinical symptoms of chronic poisoning by acrylonitrile. Vrachebnoe Delo 8: 833-836.

Bachofen, M. and E. R. Weibel (1977). Alterations of the gas exchange apparatus in adult respiratory insufficiency associated with septicemia. American Review of Respiratory Disease 116(4): 589-615.

Bader, M. and R. Wrbitzky (2006). Follow-up biomonitoring after accidental exposure to acrylonitrile:-implications for protein adducts as a dose monitor for short-term exposures. Toxicology Letters 162(2-3): 125-131.

Bakker, J. G., S. M. Jongen, et al. (1991). Occupational contact dermatitis due to acrylonitrile. Contact Dermatitis 24(1): 50-53.

Balda, B. R. (1975). Klinische und therapeutische kurzberichte: Akrylnitril als kontaktallergen. Der Hautarzt 26(11): 599-601.

Banerjee, S., K. Schultz, et al. (1990). Cellular transforming genes in acrylonitrile transformed cells and nude mouse tumors. Journal of Cancer Research and Clinical Oncology 116(Suppl. part 1): 93.

Banerjee, S. and A. Segal (1986). In vitro transformation of C3H/10T1/2 and NIH/3T3 cells by acrylonitrile and acrylamide. Cancer Letters 32(3): 293-304.

Barnes, J. M. (1970). Observations on the effects on rats of compounds related to acrylamide. British Journal of Industrial Medicine 27(2): 147-149.

Barnett, J. W., Jr. (1980). Characterization and quantitation of a BALB/c host-mediated assay for mammalian cell transformation by chemical carcinogens. Doctoral Dissertation, The University of Texas Graduate School of Biomedical Sciences.

Barnett, J. W., Jr. and J. B. Ward, Jr. (1979). Combined in vitro and host-mediated assays for transformation of balb/3t3 cells. Environmental Mutagenesis 1(2): 148-149.

Barrett, J. C. and P. W. Lamb, Eds. (1985). Tests with the Syrian hamster embryo cell transformation assay. Amsterdam, The Netherlands, Elsevier Science Publishers.

Baxter, J., N. J. Garton, et al. (2006). The impact of acrylonitrile and bioaugmentation on the biodegradation activity and bacterial community structure of a topsoil. Folia Microbiologica 51(6): 591-597.

Baxter, R. A. (1979). Evaluation and control of industrial exposure to acrylonitrile. Annals of Occupational Hygiene 22: 429-435.

Beevers, D. G. and R. Maheswaran (1988). Does alcohol cause hypertension or pseudo-hypertension? Proceedings of the Nutrition Society 47: 111-114.

Belitskii, G. A. and V. V. Khudolei (1986). [Short-term tests in the system of detecting chemical compounds carcinogenic for humans]. Voprosy onkologii 32: 3-11.

Bellward, G. D., T. Chang, et al. (1988). Hepatic cytochrome P-450j induction in the spontaneously diabetic BB rat. Molecular Pharmacology 33(2): 140-143.

Benes, V. and V. Cerna (1959). Akrylonitril: akute Toxizitat und Wirkungsmechanismus [Acrylonitrile: acute toxicity and mechanism of action]. Central European Journal of Public Health 3: 106-116.

Benes, V. and R. Sram (1969). Mutagenic activity of some pesticides in Drosophila melanogaster. American Journal of Industrial Medicine 38(12): 50-52.

Benhamou, S., M. Reinikainen, et al. (1998). Association between lung cancer and microsomal epoxide hydrolase genotypes. Cancer Research 58(23): 5291-5293.

Benn, T. and K. Osborne (1998). Mortality of United Kingdom acrylonitrile workers--an extended and updated study. Scandinavian Journal of Work, Environment and Health 24(Suppl. 2): 17-24.

Benz, F. W. and D. E. Nerland (2005). Effect of cytochrome P450 inhibitors and anticonvulsants on the acute toxicity of acrylonitrile. Archives of Toxicology 79(10): 610-614.

Benz, F. W., D. E. Nerland, et al. (1997). Biological markers of acute acrylonitrile intoxication in rats as a function of dose and time. Fundamental and Applied Toxicology 36(2): 141-148.

Benz, F. W., D. E. Nerland, et al. (1997). Dose dependence of covalent binding of acrylonitrile to tissue protein and globin in rats. Fundamental and Applied Toxicology 36(2): 149-156.

Benz, F. W., D. E. Nerland, et al. (1990). Acute acrylonitrile toxicity: studies on the mechanism of the antidotal effect of D- and L-cysteine and their N-acetyl derivatives in the rat. Toxicology and Applied Pharmacology 102(1): 142-150.

Bergmark, E. (1994). Protein adducts acrylamide and acrylonitrile. Pharmacology and Toxicology 74(Suppl 2): 13.

Bergmark, E. (1997). Hemoglobin adducts of acrylamide and acrylonitrile in laboratory workers, smokers and nonsmokers. Chemical Research in Toxicology 10(1): 78-84.

Bergmark, E., C. J. Calleman, et al. (1993). Determination of hemoglobin adducts in humans occupationally exposed to acrylamide. Toxicology and Applied Pharmacology 120(1): 45-54.

Beskid, O., Z. Dusek, et al. (2006). The effects of exposure to different clastogens on the pattern of chromosomal aberrations detected by FISH whole chromosome painting in occupationally exposed individuals. Mutation Research 594(1-2): 20-29.

Bhooma, T., B. Padmavathi, et al. (1992). Effect of acrylonitrile on the procoagulant activity of rat lung. Bulletin of Environmental Contamination and Toxicology 48: 321-326.

Bhooma, T. and N. Venkataprasad (1997). Acrylonitrile potentiates oxidative stress in rat alveolar macrophages. Bulletin of Environmental Contamination and Toxicology 58(1): 71-78.

Bigner, D. D., S. H. Bigner, et al. (1986). Primary brain tumors in Fischer 344 rats chronically exposed to acrylonitrile in their drinking-water. Food and Chemical Toxicology 24(2): 129-137.

Binková, B., Y. Giguère, et al. (2000). The effect of dibenzo[a,1]pyrene and benzo[a]pyrene on human diploid lung fibroblasts: the induction of DNA adducts, expression of p53 and p21(WAF1) proteins and cell cycle distribution. Mutation Research 471(1-2): 57-70.

Biodynamics. (1980). A twenty-four month oral toxicity/carcinogenicity study of acrylonitrile administered by intubation to Spartan rats: Volume I. East Millstone, NJ, Biodynamics, Inc.

Biodynamics. (1980). A twenty-four month oral toxicity/carcinogenicity study of acrylonitrile administered by intubation to Spartan rats: Volume II. St. Louis, MO, Monsanto Company.

Biodynamics. (1980). A twenty-four month oral toxicity/carcinogenicity study of acrylonitrile administered in the drinking water to Fischer 344 rats with cover letters. St. Louis, MO, Monsanto Company.

Biodynamics. (1980). A twenty-four month oral toxicity/carcinogenicity study of acrylonitrile administered in the drinking water to Fischer 344 rats: Volume I. East Millstone, NJ, Biodynamics, Inc.

Biodynamics. (1980). A twenty-four month oral toxicity/carcinogenicity study of acrylonitrile administered in the drinking water to Fischer 344 rats: Volume II. St. Louis, MO, Monsanto Company.

Biodynamics. (1980). A twenty-four month oral toxicity/carcinogenicity study of acrylonitrile administered to Spartan rats in the drinking water: Vol. I [final report]. East Millstone, NJ, Biodynamics, Inc.

Biodynamics. (1981). Addendum to twenty four month oral toxicity carcinogenicity study of acrylonitrile administered in the drinking water to Fischer 344 rats. St. Louis, MO, Monsanto Company.

Bjárge, C., G. Brunborg, et al. (1996). A comparative study of chemically induced DNA damage in isolated human and rat testicular cells. Reproductive Toxicology 10(6): 509-519.

Blair, A. and N. Kazerouni (1997). Reactive chemicals and cancer. Cancer Causes and Control 8(3): 473-490.

Blair, A., P. A. Stewart, et al. (1998). Mortality of industrial workers exposed to acrylonitrile. Scandinavian Journal of Work, Environment and Health 24(Suppl 2): 25-41.

Boffetta, P., J. K. McLaughlin, et al. (2008). False-positive results in cancer epidemiology: a plea for epistemological modesty. National Cancer Institute. Journal (Online) 100(14): 988-995.

Bolt, H., P. Roos, et al. (2003). The cytochrome P-450 isoenzyme CYP2E1 in the biological processing of industrial chemicals: consequences for occupational and environmental medicine. International Archives of Occupational and Environmental Health 76(3): 174-185.

Bolt, H. M. (2003). Genotoxicity - Threshold or not? Introduction of cases of industrial chemicals. Toxicology Letters 140-141: 43-51.

Bondarev, G. I. and K. P. Stasenkova (1977). [The evaluation of medical-prophylactic nutrition under the experimental action of acrylic acid nitrile]. Voprosy Pitaniya(5): 78-82.

Bondarev, G. I., K. P. Stasenkova, et al. (1976). [Protective action of sulfur-containing compounds in acrylonitrile poisoning]. Voprosy Pitaniya(4): 55-58.

Borak, J. (1992). Acute acrylonitrile toxicity: Reconsideration of mechanisms and antidotes. The Occupational and Environmental Medicine Report 6(3): 19-21.

Borba, H., M. Monteiro, et al. (1996). Evaluation of some biomonitoring markers in occupationally exposed populations to acrylonitrile. Teratogenesis, Carcinogenesis, and Mutagenesis 16(4): 205-218.

Borlakoglu, J. T., A. Scott, et al. (1993). Expression of P450 isoenzymes during rat liver organogenesis. International Journal of Biochemistry 25(11): 1659-1668.

BP (1998). Initial submission: mortality among chemical plant workers exposed to acrylonitrile and other substances (1988-1996 update), with cover letter dated 2/23/1998. Pittsburgh, PA, University of Pittsburgh.

Bradley, M. O. (1985). Measurement of DNA single-strand breaks by alkaline elution in rat hepatocytes. Progress in Mutation Research 5: 353-357.

Brams, A., J. P. Buchet, et al. (1987). A comparative study, with 40 chemicals, of the efficiency of the Salmonella assay and the SOS chromotest (kit procedure). Toxicology Letters 38(1-2): 123-133.

Brat, S. V. and G. M. Williams (1982). Hepatocyte-mediated production of sister chromatid exchange in co-cultured cells by acrylonitrile: Evidence for extra cellular transport of a stable reactive intermediate. Cancer Letters 17(2): 213-216.

Breslow, N. (1974). Covariance analysis of censored survival data. Biometrics 30(1): 89-99.

Brooks, T. M., L. P. Gonzalez, et al., Eds. (1985). The induction of mitotic gene conversion in the yeast Saccharomyces cerevisiae strain JD1. Amsterdam, The Netherlands, Elsevier.

Brown, M. E., C. V. Breder, et al. (1978). Gas-solid chromatographic procedures for determining acrylonitrile monomer in acrylonitrile-containing polymers and food simulating solvents. Journal of AOAC International 61: 1383-1388.

Brusick, D. J., V. F. Simmon, et al. (1980). An evaluation of the Escherichia coli WP2 and WP2uvrA reverse mutation assay. Mutation Research 76(2): 169-190.

Brzezinski, M. R., H. Boutelet-Bochan, et al. (1999). Catalytic activity and quantitation of cytochrome P-450 2E1 in prenatal human brain. Journal of Pharmacology and Experimental Therapeutics 289(3): 1648-1653.

Buchter, A., H. Peter, et al. (1984). [N-Acetylcysteine as an antidote in accidental acrylonitrile intoxications]. International Archives of Occupational and Environmental Health 53(4): 311-320.

Buckpitt, A. R., D. E. Rollins, et al. (1979). Varying effects of sulfhydryl nucleophiles on acetaminophen oxidation and sulfhydryl adduct formation. Biochemical Pharmacology 28(19): 2941-2946.

Burka, L. T., I. M. Sanchez, et al. (1994). Comparative metabolism and disposition of acrylonitrile and methacrylonitrile in rats. Archives of Toxicology 68(10): 611-618.

Butterworth, B. E., S. R. Eldridge, et al. (1992). Tissue-specific genotoxic effects of acrylamide and acrylonitrile. Environmental and Molecular Mutagenesis 20(3): 148-155.

Cal, E. P. A. (2001). Chronic toxicity summary: Acrylonitrile.

Calleman, C. J., Y. Wu, et al. (1994). Relationships between biomarkers of exposure and neurological effects in a group of workers exposed to acrylamide. Toxicology and Applied Pharmacology 126(2): 361-371.

Campian, C., F. W. Benz, et al. (2003). Identification of rat liver cytosol protein targets of acrylonitrile in vivo using two-dimensional gel electrophoresis and mass spectrometry. Toxicologist 72(S-1): 95.

Campian, E. C. (2005). Acute acrylonitrile toxicity: Mechanistic studies, University of Louisville.

Campian, E. C. and F. W. Benz (2008). The acute lethality of acrylonitrile is not due to brain metabolic arrest. Toxicology 253(1-3): 104-109.

Campian, E. C., J. Cai, et al. (2002). Acrylonitrile irreversibly inactivates glyceraldehyde-3-phosphate dehydrogenase by alkylating the catalytically active cysteine 149. Chemico-Biological Interactions 140(3): 279-291.

Carapella, C. (1973). Rapporti fra le polineuriti di origine professionale ed i fattori tecnologici ed igienico-sanitari degli ambienti di lavoro. Acta neurologica 28(6): 683-691.

Carere, A., D. Bellincampi, et al. (1985). Genotoxic activity of selected chemical carcinogens in Aspergillus nidulans. Mutation Research: Environmental Mutagenesis and Related Subjects 147(5): 287-288.

Carere, A., G. Conti, et al., Eds. (1985). Assays in Aspergillus nidulans for the induction of forward-mutation in haploid strain 35 and for mitotic nondisjunction, haploidization and crossing-over in diploid strain P1. Amsterdam, The Netherlands, Elsevier.

Carls, N. and R. H. Schiestl (1994). Evaluation of the yeast DEL assay with 10 compounds selected by the International Program on Chemical Safety for the evaluation of short-term tests for carcinogens. Mutation Research 320(4): 293-303.

Carrera, M. P., I. Antolín, et al. (2007). Antioxidants do not prevent acrylonitrile-induced toxicity. Toxicology Letters 169(3): 236-244.

Carriere, V., F. Berthou, et al. (1996). Human cytochrome P450 2E1 (CYP2E1): from genotype to phenotype. Pharmacogenetics 6(3): 203-211.

Chai, X., J. Guan, et al. (2002). Survey on effects of acrylonitrile exposure on workers' health. Zhongguo Gongye Yixue Zazhi 15(6): 363-364.

Chanas, B., H. Wang, et al. (2003). Differential metabolism of acrylonitrile to cyanide is responsible for the greater sensitivity of male vs female mice: role of CYP2E1 and epoxide hydrolases. Toxicology and Applied Pharmacology 193(2): 293-302.

Chang, C. M., M. T. Hsia, et al. (1990). Acrylonitrile-induced sister-chromatid exchanges and DNA single-strand breaks in adult human bronchial epithelial cells. Mutation Research 241(4): 355-360.

Chang, J. S., C. Y. Chang, et al. (2006). Long-term operation of submerged membrane bioreactor for the treatment of high strength acrylonitrile-butadiene-styrene (ABS) wastewater: effect of hydraulic retention time. Desalination 191(1-3): 45-51.

Chantara, W., P. Watcharasit, et al. (2006). Acrylonitrile-induced extracellular signal-regulated kinase (ERK) activation via protein kinase C (PKC) in SK-N-SH neuroblastoma cells. Journal of Applied Toxicology 26(6): 517-523.

Checkoway, H., N. Pearce, et al. (1989). Research methods in occupational epidemiology. New York, NY, Oxford University Press.

Chen, J. L. (1986). Epidemiological study on workers exposed to dimethylformamide and/or acrylonitrile with cover letter dated 102086. Wilmington, DE, Dupont Chemical Company.

Chen, J. L., W. E. Fayerweather, et al. (1988). Cancer incidence of workers exposed to dimethylformamide and/or acrylonitrile. Journal of Occupational and Environmental Medicine 30(10): 813-818.

Chen, J. L., W. E. Fayerweather, et al. (1988). Mortality study of workers exposed to dimethylformamide and/or acrylonitrile. Journal of Occupational and Environmental Medicine 30(10): 819-821.

Chen, J. L., J. Walrath, et al. (1987). Cancer incidence and mortality among workers exposed to acrylonitrile. American Journal of Industrial Medicine 11: 157-163.

Chen, Y., C. Chen, et al. (1999). The diagnosis and treatment of acute acrylonitrile poisoning: A clinical study of 144 cases. Journal of Occupational Health 41: 172-176.

Chen, Y., C. Chen, et al. (2000). Study on the effects of occupational exposure to acrylonitrile in workers. China Occupational Medicine 18(3): N/A.

Chen, Y., F. Li, et al. (2010). [Effects of acrylonitrile on sperm motility in male mice]. Shengtai Duli Xuebao 5(5): 711-717.

Cheng, K. C., D. S. Cahill, et al. (1992). 8-Hydroxyguanine, an abundant form of oxidative DNA damage, causes G----T and A----C substitutions. Journal of Biological Chemistry 267(1): 166-172.

Chengelis, C. P. (1988). Age- and sex-related changes in epoxide hydrolase, UDP-glucuronosyl transferase, glutathione S-transferase, and PAPS sulphotransferase in Sprague-Dawley rats. Xenobiotica 18(11): 1225-1237.

Chu, C. Y. and C. C. Sun (2001). Allergic contact dermatitis from acrylonitrile. American Journal of Contact Dermatitis 12(2): 113-114.

Cline, J. C., C. Z. Thompson, et al. (1978). A convenient technique for the detection of volatile liquid mutagens in ten tester strains. 9th Annual Meeting of the Environmental Mutagen Society.

Coggon, D. and P. Cole (1998). Acrylonitrile and human cancer--an overview. Scandinavian Journal of Work, Environment and Health 24(Suppl. 2): 81-82.

Cogliano, V. and K. Straif (2010). Re: False-positive results in cancer epidemiology: a plea for epistemological modesty. National Cancer Institute. Journal (Online) 102(2): 134; author reply 134-135.

Cohen, S. M. (2004). Human carcinogenic risk evaluation: An alternative approach to the two-year rodent bioassay. Toxicological Sciences 80(2): 225-229.

Cole, C. E., H. T. Tran, et al. (2001). Physiologically based pharmacokinetic modeling of benzene metabolism in mice through extrapolation from in vitro to in vivo. Journal of Toxicology and Environmental Health, Part A: Current Issues 62(6): 439-465.

Cole, P., J. S. Mandel, et al. (2008). Acrylonitrile and cancer: a review of the epidemiology. Regulatory Toxicology and Pharmacology 52(3): 342-351.

Collins, A. R. (2009). Investigating oxidative DNA damage and its repair using the comet assay. Mutation Research 681(1): 24-32.

Collins, J. J. and J. F. Acquavella (1998). Review and meta-analysis of studies of acrylonitrile workers. Scandinavian Journal of Work, Environment and Health 24 Suppl 2: 71-80.

Collins, J. J., L. C. Page, et al. (1989). Mortality patterns among employees exposed to acrylonitrile. Journal of Occupational and Environmental Medicine 31: 368-371.

Collins, J. J. and D. E. Strother (1999). CNS tumors and exposure to acrylonitrile: Inconsistency between experimental and epidemiology studies. Neuro-Oncology 1(3): 221-230.

Cone, J. E. (1987). Occupational lung cancer. Occupational Medicine 2: 273-295.

Cornet, M., K. Mertens, et al. (1994). Age- and gender-related changes in the hepatic metabolism of 2-methylpropene and relationship to epoxide metabolizing enzymes. Mechanisms of Ageing and Development 74(1-2): 103-115.

Corsaro, C. M. and B. R. Migeon (1978). Gene expression in euploid human hybrid cells: ouabain resistance is codominant. Somatic Cell Genetics 4(5): 531-540.

Costa, L. G. and C. J. Calleman (1994). Determination of Hemoglobin Adducts Following Acrylamide Exposure, Environmental Protection Agency Office of Research and Development(EPAORD): 84.

Cote, I. L., A. Bowers, et al. (1983). Induced tolerance to acrylonitrile toxicity by prior acrylonitrile exposure. Research Communications in Molecular Pathology and Pharmacology 42: 169-172.

Cote, I. L., A. Bowers, et al. (1984). Effects of acrylonitrile on tissue glutathione concentrations in rat, mouse, and hamster. Research Communications in Molecular Pathology and Pharmacology 43(3): 507-510.

Cova, D., E. Chiesara, et al., Eds. (1984). Interaction of acrylonitrile with the liver mixed function oxidases. Berlin, Germany, Springer-Verlag.

Cova, D., P. Fumagalli, et al. (1992). Toxicity of acrylonitrile in a human neuroblastoma cell line and its effect on glutathione and glutathione-S-transferase. Bulletin of Environmental Contamination and Toxicology 49(6): 886-891.

Cox, D. R. (1972). Regression models and life-tables. Journal of the Royal Statistical Society: Series B (Methodological) 34: 187-220.

Craan, A. G. and M. A. Malick (1987). Differential renal membrane responses of Fischer-322 rats to glutathione pathway metabolites. Clinical Research 35(5): 808A.

Craan, A. G. and M. A. Malick (1989). Structure-nephrotoxicity relationships of glutathione pathway intermediates derived from organic solvents. Toxicology 56(1): 47-61.

Crebelli, R. and A. Carere (1987). Chemical and physical agents assayed in tests for mitotic intergenic and intragenic recombination in Aspergillus nidulans diploid strains. Mutagenesis 2(6): 469-475.

Crespi, C. L., C. G. Ryan, et al. (1985). Tests for mutagenic activity using mutation assays at two loci in the human lymphoblast cell lines YK6 and AHH-1. Progress in Mutation Research 5: 497-516.

Cresteil, T., P. Beaune, et al. (1985). Immunoquantification of epoxide hydrolase and cytochrome P-450 isozymes in fetal and adult human liver microsomes. European Journal of Biochemistry 151(2): 345-350.

Cui, J., S. Fu, et al. (2001). [Effects of acrylonitrile on reproductive functions in male mice]. Chinese Journal of Industrial Hygiene and Occupational Diseases 27(3): 155-158.

Cui, J., H. Li, et al. (2004). [Study on DNA cross-link effect of acrylonitrile]. Zhongguo Gongye Yixue Zazhi 17(1): 18-20.

Cui, J., Y. Yang, et al. (2001). [Effect of acrylonitrile exposure on male sexual hormone]. Gongye Weisheng yu Zhiyebin / Industrial health and occupational diseases 27(3): 152-155.

Cui, J., Y. Yang, et al. (2001). [Study on teratogenicity of acrylonitrile in rats by subcutaneous injection]. Gongye Weisheng yu Zhiyebin / Industrial health and occupational diseases 27(3): 161-164.

Czeizel, A. E., S. Hegedus, et al. (2000). Corrigendum to Congenital abnormalities and indicators of germinal mutations in the vicinity of an acrylonitrile producing factory. Mutation Research 453(1): 105–106.

Czeizel, A. E., S. Hegedüs, et al. (1999). Congenital abnormalities and indicators of germinal mutations in the vicinity of an acrylonitrile producing factory. Mutation Research: Fundamental and Molecular Mechanisms of Mutagenesis 427(2): 105-123.

Czeizel, A. E., R. Szilvási, et al. (2004). Occupational epidemiological study of workers in an acrylonitrile using factory with particular attention to cancers and birth defects. Mutation Research 547(1-2): 79-89.

Dahl, A. R. and B. Waruszewski (1987). Metabolism of Organonitriles by Rat Nasal Enzymes, Inhalation Toxicology Research Institute. October 1: 397-399.

Dahl, A. R. and B. A. Waruszewski (1989). Metabolism of organonitriles to cyanide by rat nasal tissue enzymes. Xenobiotica 19(11): 1201-1206.

Danford, N. (1984). The detection of mitotic aneuploidy in a Chinese hamster primary cell line using a modified hypotonic treatment. Mutation Research: Genetic Toxicology and Environmental Mutagenesis 130(3): 178.

Danford, N. (1985). Tests for chromosomal aberrations and aneuploidy in the Chinese hamster fibroblast cell line CH1-L. Progress in Mutation Research 5: 397-411.

Davis, J. H., J. E. Davies, et al., Eds. (1973). Investigation of fatal acrylonitrile intoxications. New York, NY, Intercontinental Medical Book Corp.

De Meester, C., M. Duverger-van Bogaert, et al. (1979). Liver extract mediated mutagenicity of acrylonitrile. Toxicology 13: 7-15.

De Meester, C., F. Poncelet, et al. (1979). Impact of microsomal enzymes on the mutagenicity of acrylonitrile, butadiene and styrene. Mutation Research 64(2): 132.

De Vries, N. and S. De Flora (1993). N-acetyl-l-cysteine. Journal of Cellular Biochemistry. Supplement 17F: 270-277.

De Meester, C., F. Poncelet, et al. (1978). Mutagenicity of acrylonitrile. Toxicology 11: 19-27.

De Waziers, I., P. H. Cugnenc, et al. (1990). Cytochrome P 450 isoenzymes, epoxide hydrolase and glutathione transferases in rat and human hepatic and extrahepatic tissues. Journal of Pharmacology and Experimental Therapeutics 253: 387-394.

Dean, B. J., N. Danford, et al., Eds. (1985). Summary report on the performance of cytogenetic assays in cultured mammalian cells. Amsterdam, The Netherlands, Elsevier.

Delivanova, S., P. Popovski, et al. (1978). [Blepharoconjunctivitis in workers in the manufacture of synthetic polyacrylonitrile fibers]. 24: 279-282.

Delzell, E. and R. R. Monson (1982). Mortality among rubber workers: VI. Men with potential exposure to acrylonitrile. Journal of Occupational Medicine 24(10): 767-769.

Denlinger, C. L. and E. S. Vesell (1989). Hormonal regulation of the developmental pattern of epoxide hydrolases: Studies in rat liver. Biochemical Pharmacology 38(4): 603-610.

Ding, S. and F. Jin (2004). [Study on effect of acrylonitrile on aging marker in rat brain]. Gongye Weisheng yu Zhiyebin / Industrial health and occupational diseases 30(6): 337-339.

Ding, S., F. Jin, et al. (2004). Effect of acrylonitrile on cognitive function and aging sign of occupationally exposed workers. Gongye Weisheng yu Zhiyebin / Industrial health and occupational diseases 30(1): 22-24.

Ding, S., F. s. Jin, et al. (2005). [Effect of acrylonitrile on ATPase of occupationally exposed workers]. Huan jing yu zhi ye yi xue = Journal of environmental & occupational medicine 22(1): 56-57.

Ding, S., L. J. Ma, et al. (2003). [Study on mitochondrial DNA damage in peripheral blood nucleate cells of the workers exposed to acrylonitrile]. Zhonghua Laodong Weisheng Zhiyebing Zazhi 21(2): 99-101.

Dinu, V. (1975). Activity of glutathione peroxidase and catalase and the concentration of lipid peroxides in acute intoxication with acrylonitrile. Revue Roumaine de Biochimie 12: 11-14.

Dinu, V. (1975). Intracellular thiol concentration in acrylonitrile intoxication. Revue Roumaine de Biochimie 12: 155-158.

Dinu, V. and R. Klein (1976). [Catalase activity, glutathione and lactic acid levels in rats acutely intoxicated by acrylonitrile]. Journal de Pharmacologie 7(2): 223-226.

Diodovich, C., I. Malerba, et al. (2005). Gene and protein expressions in human cord blood cells after exposure to acrylonitrile. Journal of Biochemical and Molecular Toxicology 19(4): 204-212.

Djordjević, D., J. Nikolić, et al. (1998). Ethanol interactions with other cytochrome P450 substrates including drugs, xenobiotics, and carcinogens. Pathologie et Biologie 46(10): 760-770.

Doherty, P. A., V. H. Ferm, et al. (1981). Cyanide teratogenicity in the Syrian golden hamster (SGH). Pharmacologist 23(3): 214.

Doll, R. (1971). The age distribution of cancer: Implications for models of carcinogenesis. Journal of the Royal Statistical Society. Series A. 134: 133-166.

Donehower, L. A. and A. Bradley (1993). The tumor suppressor p53. Biochimica et Biophysica Acta 1155(2): 181-205.

Dong, D. and J. Pan (1995). Acrylonitrile effect on worker's reproductive system. Petrochem Safe Technol Mag 5: 30-31.

Dong, D., D. Tao, et al. (2000). Study of occupational harmfulness to acrylonitrile workers, Industrial Health Department of Safety and Technology, Daqing Petrochemical General Plant.

Dong, D., D. Wang, et al. (2000). Study of acrylonitrile hazardous effects on workers' reproductive system, Dong, D.; Wang, D.; Ai, X.; et al.

Dorman, D. C., M. F. Struve, et al. (1996). Acrylonitrile-induced cytotoxicity in primary rat neural cell cultures. In Vitro Toxicology 9(4): 361–371.

Dorn, S. B., G. H. Degen, et al. (2008). Disturbance of microtubule assembly in vitro by organic chemicals based on hydrophobic interactions. Naunyn-Schmiedeberg's Archives of Pharmacology 377(Suppl. 1): 90-91.

Douglas, G. R., D. H. Blakey, et al. (1985). Alkaline sucrose sedimentation, sister chromatid exchange and micronucleus assays in CHO cells. Progress in Mutation Research 5: 359-366.

Dovzhanskii, I. S. (1976). [Immunoglobulins in workers in contact with acrylates]. Gigiena i Sanitariia(3): 61-63.

Dow Chemical, C. (1976). In vitro microbiological mutagenicity studies of Dow Chemical Company Compounds.

Dow Chemical, C. (1976). Teratologic evaluation of gavaged acrylonitrile monomer in rats with cover letter dated 08/10/92. Wilmington, DE, Dupont Chemical Company.

Dow Chemical, C. (1977). Initial submission: Status report on the 2 year study incorporating acrylonitrile in the drinking water of rats (interim report) with attachment and cover letter dated 101591. Houston, TX, Shell Oil Company.

Dow Chemical, C. (1977). The pharmokinetic and metabolic profile carbon 14C-acrylonitrile given to rats by three routes.

Dow Chemical, C. (1977). Teratologic evaluation of acrylonitrile monomer given to rats by gavage.

Dow Chemical, C. (1978). Initial submission: Teratologic evaluation of inhaled acrylonitrile monomer in rats (final report) with cover letter dated 10251991 (sanitized). Midland, MI.

Dow Chemical, C. (1980). Initial submission: 2-year toxicity and oncogenicity study with acrylonitrile following inhalation exposure in rats (final report) with cover letter dated 080392. Midland, MI.

Dow Chemical, C. (1980). Initial submission: A two-year toxicity & oncogenicity study with acrylonitrile incorporated in the drinking water of rats (final report) with cover letter dated 061792.

Dow Chemical, C. (1980). Two-year toxicity and oncogenicity study with acrylonitrile incorporated in the drinking water of rats.

Dow Chemical, C. (1983). Clarification of a previous acrylonitrile 2-year water ingestion study in rats with EPA response letter dated 102683. Midland, MI.

Dow Chemical, C. (1991). Initial submission: Letter submitting an enclosed two-year toxicity and oncogenicity study in rats on acrylonitrile and two enclosed progress reports with attachments (sanitized).

Dow Chemical, C. (1992). Initial submission: Two-year toxicity and oncogenicity study with acrylonitrile following inhalation exposure of rats (final report) with cover letter dated 050792.

Duan, L., Q. Wu, et al. (2005). [Effect of acrylonitrile on proliferation and differentiation of rat embryo midbrain nerve cells]. Zhongguo Gongye Yixue Zazhi 18(3): 137-139.

Duan, L., Q. Wu, et al. (2006). [Effect of acrylonitrile on proliferation and differentiation of mouse lung fibroblasts in vitro]. Huan Jing Yu Jian Kang Za Zhi / Journal of Environment and Health 23(6): 500-502.

Duan, L. r., Q. y. Wu, et al. (2005). [Effect of acrylonitrile on proliferation and differentiation of rat embryo spinal cord nerve cells in vitro]. Chinese Occupational Medicine 32(2): 5-7.

Duan, L. R., G. W. Xing, et al. (2006). [Effect of acrylonitrile on proliferation and differentiation of rat embryo spinal cord nerve cell]. Zhongguo Gonggong Weisheng / Chinese Journal of Public Health 22(3): 331-332.

Dudley, H. C. and P. A. Neal (1942). Toxicology of Acrylonitrile (Vinyl Cyanide) I. A Study of Acute Toxicity. Journal of Industrial Hygiene and Toxicology 24(2): 27-36.

Dudley, H. C. and P. A. Neal (1942). Toxicology of acrylonitrile (vinyl cyanide): I a study of the acute toxicity. Archives of Environmental and Occupational Health 24: 27-36.

Dudley, H. C., T. R. Sweeney, et al. (1942). Toxicology of acrylonitrile (vinyl cyanide): II studies of effects of daily inhalation. Journal of Industrial Hygiene and Toxicology 24: 255-258.

DuPont (1968). Acute inhalation toxicity in rats with cover letter. Wilmington, DE, Dupont Chemical Company.

DuPont (1968). Initial submission: Comparative acute inhalation toxicity in dogs with acrylonitrile (inhibited) and methacrylonitrile (inhibited) with cover letter dated 101592. Wilmington, DE, Dupont Chemical Company.

DuPont (1978). Initial Submission: Teratological Evaluation of Inhaled Acrylonitril Monomer in Rats with Cover Letter dated 09011992. Wilmington, DE, Dupont Chemical Company.

DuPont (1979). Epidemiologic study of workers exposed to acrylonitrile with cover letter. Wilmington, DE, Dupont Chemical Company.

DuPont (1985). Epidemiologic study of workers exposed to acrylonitrile: An update with cover letter dated 081585. Wilmington, DE, Dupont Chemical Company.

DuPont (1991). Initial submission: letter submitting two enclosed ninety-day feeding studies on two separate chemicals with attachments. Wilmington, DE, Dupont Chemical Company.

DuPont (1992). Initial submission: Acute inhalation toxicity study in rats-4 hour exposure with cover letter dated 082492. Wilmington, DE, Dupont Chemical.

DuPont (2011). Letter to U.S. Environmental Protection Agency from DuPont Haskell Global Centers regarding 2-propenenitrile, CAS # 107-13-1.

Durnev, A. D., E. V. Nesterova, et al. (2003). Comutagenic effects of calcium channel blockers in mice. Toxicology Letters 144(Suppl 1): s127.

Duverger, M., M. Lambotte, et al. (1981). Metabolic activation and mutagenicity of 4 vinylic monomers (vinyl chloride, styrene, acrylonitrile, butadiene). Toxicological European Research 3(3): 131-140.

Duverger, M., M. Lambotte, et al. (1983). Role of glutathione in the in vivo and in vitro mutagenicity of acrylonitrile. Mutation Research 247: 247-248.

Duverger, M., M. Lambotte, et al. (1981). Effects of UV irradiation on the mutagenicity of monomers. Mutation Research 85(4): 243-244.

Duverger-Van Bogaert, M. and M. Lambotte-Vandepaer (1985). Are extrahepatic tissues involved in acrylonitrile activation? Archives internationales de physiologie et de biochimie 93(Suppl.): S24.

Duverger-Van Bogaert, M., M. Lambotte-Vandepaer, et al. (1982). Role of glutathione in liver-mediated mutagenicity of acrylonitrile. Toxicology Letters 11(3-4): 305-311.

Duverger-Van Bogaert, M., M. Lambotte-Vandepaer, et al. (1982). Vinyl chloride and acrylonitrile: Activation mechanism and mutagenicity. Toxicological European Research 4(1): 35-37.

Duverger-Van Bogaert, M., M. Lambotte-Vandepaer, et al. (1980). In-vitro biotransformation routes and mutagenicity of acrylonitrile. Toxicology Letters 0(Special Issue 1): 251.

Duverger-van Bogaert, M., M. Lambotte-Vandepaer, et al. (1980). Effect of various factors influencing the mutagenicity of acrylonitrile (ACN). Mutation Research: Environmental Mutagenesis and Related Subjects 74(3): 207-208.

Duverger-Van Bogaert, M., M. Lambotte-Vandepaer, et al. (1981). Effect of several factors on the liver extract mediated mutagenicity of acrylonitrile and identification of four new in vitro metabolites. Toxicology Letters 7(4-5): 311-319.

Duverger-Van Bogaert, M., M. Lambotte-Vandepaer, et al. (1984). Activation of acrylonitrile to mutagens: Possible contribution of reactive forms of O2. Mutation Research 130(3): 229-230.

Duverger-Van Bogaert, M., M. Lambotte-Vandepaer, et al. (1982). In vitro covalent binding of acrylonitrile to rat liver proteins. Toxicology Letters 13(3-4): 203-209.

Duverger-Van Bogaert, M., M. Lambotte-Vandepaer, et al. (1978). Biochemical effects of acrylonitrile on the rat liver, as influenced by various pretreatments on the animals. Biochemical and Biophysical Research Communications 83(3): 1117-1124.

ECJRC. (2004). European Union risk assessment report: Acrylonitrile. Brussels, Belgium.

Efremov, A. M. (1976). [Study free radicals in blood, brain, liver, spleen of white rats under chronic poisoning with acrylonitrile]. Zdravookhranenie Belorussii 6(86): 1-2.

El Hadri, L., B. Chanas, et al. (2003). Comparative metabolism of acrylonitrile and methacrylonitrile to cyanide: Studies using cytochrome P4502E1 (CYP2E1)- and microsomal epoxide hydrolase (MEH)-null mice. Toxicological Sciences 72(S-1): 319.

El Hadri, L., B. Chanas, et al. (2005). Comparative metabolism of methacrylonitrile and acrylonitrile to cyanide using cytochrome P4502E1 and microsomal epoxide hydrolase-null mice. Toxicology and Applied Pharmacology 205(2): 116-125.

Elmore, E., E. A. Korytynski, et al. (1985). Evaluation of three difficult-to-test carcinogens in the Chinese hamster V-79 inhibition of metabolic cooperation assay. Environmental Mutagenesis 7(Suppl 3): 61.

Elmore, E., E. A. Korytynski, et al. (1985). Tests with the Chinese hamster V79 inhibition of metabolic cooperation assay. Progress in Mutation Research 5: 597-612.

Elmore, E. and A. J. Nelmes, Eds. (1985). Summary report on the performance of the inhibition of metabolic cooperation assay. Amsterdam, The Netherlands, Elsevier.

El-Sayed, e., O. M. Abo-Salem, et al. (2008). Hesperidin, an antioxidant flavonoid, prevents acrylonitrile-induced oxidative stress in rat brain. Journal of Biochemical and Molecular Toxicology 22(4): 268-273.

El-Tawil, O. S., A. M. Mohamadin, et al. (2006). Brain metabolism of Acrylonitrile to Cyanide: In vitro studies. Toxicological Sciences 90(1-S): 118.

Elwafa, A. E. A. A. and A. E. Ahmed (2004). Acrylonitrile induced loss of large genomic hepatic DNA in orally treated rats. Drug Metabolism Reviews 36(Suppl 1): 327.

Emmert, B., J. Bünger, et al. (2006). Mutagenicity of cytochrome P450 2E1 substrates in the Ames test with the metabolic competent S. typhimurium strain YG7108pin3ERb5. Toxicology 228(1): 66-76.

Enongene, E. N., P. N. Sun, et al. (2000). Sodium thiosulfate protects against acrylonitrile-induced elevation of glial fibrillary acidic protein levels by replenishing glutathione. Environmental Toxicology and Pharmacology 8(2): 153-161.

Ervasti, H. K., K. J. Jobst, et al. (2007). The acrylonitrile dimer ion: A study of its dissociation via self-catalysis, self-protonation and cyclization into the pyrimidine radical cation. International Journal of Mass Spectrometry 262(1-2): 88-100.

Esmat, A., E. El-Demerdash, et al. (2007). Toxicity and oxidative stress of acrylonitrile in rat primary glial cells: preventive effects of N-acetylcysteine. Toxicology Letters 171(3): 111-118.

Esmen, N. A. (1998). Exposure estimation in four major epidemiologic studies in the acrylonitrile industry. Scandinavian Journal of Work, Environment and Health 24(Suppl 2): 63-70.

Fahmy, M. A. (1999). Evaluation of the genotoxicity of acrylonitrile in different tissues of male mice. 64: 1-9.

Fan, W., R. Lu, et al. (2001). [Exploration on relationship between level of thiocyanate in urine and health effects induced by acrylonitrile exposure. Gongye Weisheng yu Zhiyebin / Industrial health and occupational diseases 27(4): 219-222.

Fan, W., W. L. Wang, et al. (2006). [Application of micronucleus test of buccal mucosal cells in assessing the genetic damage of workers exposed to acrylonitrile]. Zhonghua Laodong Weisheng Zhiyebing Zazhi 24(2): 106-108.

Fan, W., Y. Zhou, et al. (2000). [Effect of acrylonitrile on formation of sperm in mice and rats]. Weisheng Dulixue Zazhi 14(4): 223-224.

Fang, J. Y. and B. C. Richardson (2005). The MAPK signalling pathways and colorectal cancer. Lancet Oncology 6(5): 322-327.

Fanini, D., N. M. Trieff, et al. (1985). Effect of acute acrylonitrile exposure on metrazole-induced seizures in the rat. NeuroToxicology: 29-34.

Farooqui M, Y. H. and A. E. Ahmed (1980). Molecular interaction of acrylonitrile and KCN with rat red blood cells. Federation Proceedings 39(3): 2545.

Farooqui M, Y. H. and A. E. Ahmed (1981). Effect of acrylonitrile and potassium cyanide on red cell metabolism. Federation Proceedings 40(3 pt 1): 678.

Farooqui, M. Y., A. R. Abd-Allah, et al. (2006). Immunotoxic potential of acrylonitrile in human leukocytes and T84 human colonic epithelial cells - in vitro studies. Toxicologist 90(1-S): 355.

Farooqui, M. Y. and A. E. Ahmed (1982). Molecular interaction of acrylonitrile and potassium cyanide with rat blood. Chemico-Biological Interactions 38(2): 145-159.

Farooqui, M. Y. and A. E. Ahmed (1983). In vivo interactions of acrylonitrile with macromolecules in rats. Chemico-Biological Interactions 47(3): 363-371.

Farooqui, M. Y., M. M. Mumtaz, et al. (1990). Hemoglobin degradation, lipid peroxidation, and inhibition of Na+/K(+)-ATPase in rat erythrocytes exposed to acrylonitrile. Journal of Biochemical Toxicology 5(4): 221-227.

Farooqui, M. Y., B. Ybarra, et al. (1995). Effect of dosing vehicle on the toxicity and metabolism of unsaturated aliphatic nitriles. Journal of Applied Toxicology 15(5): 411-420.

Farooqui, M. Y. H. and A. E. Ahmed (1983). The effects of acrylonitrile on hemoglobin and red cell metabolism. Journal of Toxicology and Environmental Health 12: 695-707.

Fechter, L. D. (2004). Promotion of noise-induced hearing loss by chemical contaminants. Journal of Toxicology and Environmental Health, Part A: Current Issues 67(8-10): 727-740.

Fechter, L. D. (2005). Oxidative stress: a potential basis for potentiation of noise-induced hearing loss. Environmental Toxicology and Pharmacology 19(3): 543-546.

Fechter, L. D., C. Gearhart, et al. (2004). Acrylonitrile potentiates noise-induced hearing loss in rat. JARO - Journal of the Association for Research in Otolaryngology 5(1): 90-98.

Fechter, L. D., S. F. Klis, et al. (2003). Acrylonitrile produces transient cochlear function loss and potentiates permanent noise-induced hearing loss. Toxicological Sciences 75(1): 117-123.

Fei, N. and L. Z. Xu (2006). [Parkinson's syndrome after acute severe acrylonitrile poisoning in one patient]. Zhonghua Laodong Weisheng Zhiyebing Zazhi 24(5): 309-310.

Felten, R. K., D. B. Denicola, et al. (1998). Minimal effects of acrylonitrile on pulmonary and hepatic cell injury enzymes in rats with induced cytochrome P450. Drug and Chemical Toxicology 21(2): 181-194.

Felter, S. P. and J. S. Dollarhide (1997). Acrylonitrile: a reevaluation of the database to support an inhalation cancer risk assessment. Regulatory Toxicology and Pharmacology 26(3): 281-287.

Fennell, T. R., C. J. Calleman, et al. (1993). N-2 cyanoethylvaline in hemoglobin from workers exposed to acrylonitrile. Proceedings of the American Association for Cancer Research Annual Meeting 34(0): 153.

Fennell, T. R., G. L. Kedderis, et al. (1991). Urinary metabolites of (1,2,3-carbon-13) acrylonitrile in rats and mice detected by carbon-13 nuclear magnetic resonance spectroscopy. Chemical Research in Toxicology 4(6): 678-687.

Fennell, T. R., G. L. Kedderis, et al. (1991). Urinary metabolites of [1,2,3-13C]acrylonitrile in rats and mice detected by 13C nuclear magnetic resonance spectroscopy. Chemical Research in Toxicology 4(6): 678-687.

Fennell, T. R., J. P. MacNeela, et al. (2000). Hemoglobin adducts from acrylonitrile and ethylene oxide in cigarette smokers: effects of glutathione S-transferase T1-null and M1-null genotypes. Cancer Epidemiology Biomarkers and Prevention 9(7): 705-712.

Fennell, T. R., J. P. MacNeela, et al. (1989). Hemoglobin adduct formation by acrylonitrile in rats and mice. Proceedings of the American Association for Cancer Research 30: 132.

Fennell, T. R., J. P. MacNeela, et al., Eds. (1991). Haemoglobin adduct formation by acrylonitrile in rats and mice. Oxford, England, IRL Press at Oxford University Press.

Fennell, T. R. and S. C. Sumner (1994). Identification of metabolites of carcinogens by 13C NMR spectroscopy. Drug Metabolism Reviews 26(1-2): 469-481.

Fensterheim, R. J. (2007). Genetic toxicology information on acrylonitrile (CAS no. 107-13-1). Washington, DC, AN Group.

Ferin, J. (1961). [Hygienic and toxicological problems of acrylonitrile and dimethylformamide]. Pracovní Lékarství 13(8-9): 466-468.

Filser, J. G. and H. M. Bolt (1984). Inhalation pharmacokinetics based on gas uptake studies: VI comparative evaluation of ethylene oxide and butadiene monoxide as exhaled reactive metabolites of ethylene and 1,3-butadiene in rats. Archives of Toxicology 55: 219-223.

Fischel-Ghodsian, N., R. D. Kopke, et al. (2004). Mitochondrial dysfunction in hearing loss. Mitochondrion 4(5-6): 675-694.

Florin, I., L. Rutberg, et al. (1980). Screening of tobacco smoke constituents for mutagenicity using the Ames' test. Toxicology 15(3): 219-232.

Foureman, P., J. M. Mason, et al. (1994). Chemical mutagenesis testing in Drosophila. IX. Results of 50 coded compounds tested for the National Toxicology Program. Environmental and Molecular Mutagenesis 23(1): 51-56.

Fowles, J. R., G. V. Alexeeff, et al. (1999). The use of benchmark dose methodology with acute inhalation lethality data. Regulatory Toxicology and Pharmacology 29(3): 262-278.

Frentzel-Beyme, R. (1982). How to produce negative results in occupational studies the case of acrylonitrile. American Journal of Epidemiology 116(3): 581-582.

Frentzel-Beyme, R., Ed. (1987). Pooling strategies for data from occupational epidemiological studies. Edinburgh, Scotland, Churchill Livingstone.

Friedman, M. A. and R. P. Beliles (2002). Three-generation reproduction study of rats receiving acrylonitrile in drinking water. Toxicology Letters 132(3): 249-261.

Friedman, M. A. and R. P. Beliles (2002). Three-generation reproduction study of rats receiving acrylonitrile in drinking water [final report]. Toxicology Letters 132(3): 249-261.

Fritzenschaf, H., M. Kohlpoth, et al. (1993). Testing of known carcinogens and noncarcinogens in the Syrian hamster embryo (SHE) micronucleus test in vitro: Correlations with in vivo micronucleus formation and cell transformation. Mutation Research 319(1): 47-53.

Fu, P., W. C. Jin, et al. (1998). [An in vitro of acrylonitrile inducing early damage on buccal mucosa of murine].Shanghai Kouqiang Yixue 7(2): 63-66.

Fujikawa, K., H. Ryo, et al., Eds. (1985). The Drosophila reversion assay using the unstable zeste-white somatic eye color system. Amsterdam, The Netherlands, Elsevier.

Gabrovska, K. and T. Godjevargova (2009). Optimum immobilization of urease on modified acrylonitrile copolymer membranes: Inactivation by heavy metal ions. 60(1-2): 69-75.

Gad, S. C. (1990). An industrial perspective on a quantitative estimation of risk associated with low level exposures of humans, with acrylonitrile as a case study. Science of the Total Environment 99(3): 281-287; discussion 287-288.

Gagnaire, F., B. Marignac, et al. (1998). Relative neurotoxicological properties of five unsaturated aliphatic nitriles in rats. Journal of Applied Toxicology 18(1): 25-31.

Gagnon, Y. T. and J. C. Posner (1979). Recovery of acrylonitrile from charcoal tubes at low levels. American Industrial Hygiene Association Journal 40: 923-925.

Gallagher, G. T., E. A. Maull, et al. (1988). Neoplasms in Rats Ingesting Acrylonitrile for Two Years. International Journal of Toxicology 7(5): 603-615.

Gandini, A. and P. A. Hackett (1978). The photochemistry of acrylonitrile vapour at 2139 nm1. 56: 2096-2098.

Gargas, M. L., M. E. Andersen, et al. (1995). A physiologically based dosimetry description of acrylonitrile and cyanoethylene oxide in the rat. Toxicology and Applied Pharmacology 134(2): 185-194.

Garman, R. H., W. M. Snellings, et al. (1985). Brain tumors in F344 rats associated with chronic inhalation exposure to ethylene oxide. NeuroToxicology 6(1): 117-137.

Garman, R. H., W. M. Snellings, et al. (1986). Frequency, size and location of brain tumours in F-344 rats chronically exposed to ethylene oxide. Food and Chemical Toxicology 24(2): 145-153.

Garner, R. C. and J. Campbell (1985). Tests for the induction of mutations to ouabain or 6-thioguanine resistance in mouse lymphoma L5178Y cells. Progress in Mutation Research 5: 525-529.

Garrett, N. E., H. F. Stack, et al. (1984). An Analysis Of The Spectra Of Genetic Activity Produced By Known Or Suspected Human Carcinogens. Mutation Research 134(2-3): 2-3.

Geiger, L. E., L. L. Hogy, et al. (1983). Metabolism of acrylonitrile by isolated rat hepatocytes. Cancer Research 43(7): 3080-3087.

Geng, J. and H. W. Strobel (1993). Identification of cytochromes P450 1A2, 2A1, 2C7, 2E1 in rat glioma C6 cell line by RT-PCR and specific restriction enzyme digestion. Biochemical and Biophysical Research Communications 197(3): 1179-1184.

George, J., K. Byth, et al. (1995). Age but not gender selectively affects expression of individual cytochrome P450 proteins in human liver. Biochemical Pharmacology 50(5): 727-730.

Ghanayem, B. I. and A. E. Ahmed (1982). In vivo biotransformation and biliary excretion of 1-14C-acrylonitrile in rats. Archives of Toxicology 50: 175-185.

Ghanayem, B. I. and A. E. Ahmed (1983). Acrylonitrile-induced gastrointestinal hemorrhage and the effects of metabolism modulation in rats. Toxicology and Applied Pharmacology 68: 290-296.

Ghanayem, B. I. and A. E. Ahmed (1986). Prevention of acrylonitrile-induced gastrointestinal bleeding by sulfhydryl compounds, atropine and cimetidine.Research Communications in Chemical Pathology and Pharmacology 53(1): 141-144.

Ghanayem, B. I., P. J. Boor, et al. (1985). Acrylonitrile-induced gastric mucosal necrosis: role of gastric glutathione. Journal of Pharmacology and Experimental Therapeutics 232(2): 570-577.

Ghanayem, B. I., M. R. Elwell, et al. (1997). Effects of the carcinogen, acrylonitrile, on forestomach cell proliferation and apoptosis in the rat: comparison with methacrylonitrile. Carcinogenesis 18(4): 675-680.

Ghanayem, B. I., M. Y. H. Farooqui, et al. (1991). Assessment of the acute acrylonitrile-induced neurotoxicity in rats. Neurotoxicology and Teratology 13: 499-502.

Ghanayem, B. I. and U. Hoffler (2007). Investigation of xenobiotics metabolism, genotoxicity, and carcinogenicity using Cyp2e1(-/-) mice. Current Drug Metabolism 8(7): 728-749.

Ghanayem, B. I., A. Nyska, et al. (2002). Acrylonitrile is a multisite carcinogen in male and female B6C3F1 mice. Toxicological Sciences 68(1): 59-68.

Gincheva, N., N. Stamova, et al., Eds. (1977). Study of the health status of workers from the acrylonitrile department. Helsinki, Finland, Permanent Commission and International Association, on Occupational Health.

Gitlina, A. G., S. D. Gusev, et al. (1983). [Morphological changes in the organs of animals subjected to inhalation exposure to acrylonitrile]. Gigiena Truda i Professional'nye Zabolevaniya(4): 50-51.

Goldhaber, S., D. Dorman, et al. (2009). Provisional Advisory Levels (PALs) for acrylonitrile. Inhalation Toxicology 21 Suppl 3: 17-55.

Goncarova, L. N., V. V. Cirkov, et al. (1984). Effect of acrylonitrile production on the function of some endocrine glands]. Gigiena Truda i Professional'nye Zabolevaniya(5): 23-25.

Goncharova, L. N., I. E. Vaĭnfel'd, et al. (1977). [Disorders of automatism, excitability and conductivity under long-term effects of subthreshold concentrations of various chemical substances]. Kardiologiya 17(5): 128-133.

Governa, M., M. Valentino, et al. (1995). In vitro effect of acrylonitrile on specific activities of human polymorphonuclear leucocytes. Toxicology In Vitro 9(6): 945-950.

Grahl, R. (1970). [Toxicology and mode of action of acrylonitrile]. Zentralblatt fuer Arbeitsmedizin und Arbeitsschutz 20(12): 369-378.

Gribaldo, L., C. Diodovich, et al. (2004). Evaluation of toxic potential of acrylonitrile: Gene and protein responses in human cord blood cells. Toxicology and Applied Pharmacology 197(3): 236.

Grigor'eva, I. K. (1990). [Study of the activity of membrane-bound leukocyte enzymes in chronic acrylonitrile poisoning in experimental studies and occupational environment]. Gigiena Truda i Professional'nye Zabolevaniya(11): 28-31.

Grunske, F. (1949). Health care and occupational medicine: ventox and ventox intoxication. Deutsche Medizinische Wochenschrift 74: 1081-1083.

Guangwei, X., L. Rongzhu, et al. (2010). Curcumin pretreatment protects against acute acrylonitrile-induced oxidative damage in rats. Toxicology 267(1-3): 140-146.

Guengerich, F. P. (1994). Mechanisms of formation of DNA adducts from ethylene dihalides, vinyl halides, and arylamines. Drug Metabolism Reviews 26(1-2): 47-66.

Guengerich, F. P., L. E. Geiger, et al. (1981). In vitro metabolism of acrylonitrile to 2-cyanoethylene oxide, reaction with glutathione, and irreversible binding to proteins and nucleic acids. Cancer Research 41: 4925-4933.

Guengerich, F. P., L. L. Hogy, et al. (1986). Metabolism and covalent binding of vic-dihaloalkanes, vinyl halides and acrylonitrile. IARC Scientific Publications(70): 255-260.

Guengerich, F. P., D. H. Kim, et al. (1991). Role of human cytochrome P-450 IIE1 in the oxidation of many low molecular weight cancer suspects. Chemical Research in Toxicology 4(2): 168-179.

Guengerich, F. P., P. Wang, et al. (1979). Rat and human microsomal epoxide hydratase. Immunological characterization of various forms of the enzyme. Journal of Biological Chemistry 254(23): 12255-12259.

Guirguis, S. (1997). Neurobehavioral tests as a medical surveillance procedure: applying evaluative criteria. Environmental Research 73(1-2): 63-69.

Guirguis, S. S., M. B. Cohen, et al. (1984). A review of health risks in acrylonitrile industry. Giornale italiano di medicina del lavoro 6(3-4): 87-93.

Guo, J., W. Q. Wang, et al. (2011). [Effects of milk and coenzyme Q10 on the interference of acrylonitrile on vascular endothelial functions]. Chung-hua i Hsueh Tsa Chih / Chinese Medical Journal 91(16): 1136-1138.

Gut, I., J. Kopecky, et al. (1981). Acrylonitrile-14C metabolism in rats: effect of the route of administration on the elimination of thiocyanate and other radioactive metabolites in urine and feces. Central European Journal of Public Health 25: 12-16.

Gut, I., J. Kopecky, et al. (1981). Relationship between acrylo nitrile biotransformation pharmacokinetics and acute toxicity: A short review. Giornale italiano di medicina del lavoro 3(2-3): 131-136.

Gut, I., J. Nerudova, et al. (1984). Acrylonitrile inhalation in rats: I effect on intermediary metabolism. Central European Journal of Public Health 28: 369-376.

Gut, I., J. Nerudova, et al. (1975). Acrylonitrile biotransformation in rats, mice, and Chinese hamsters as influenced by the route of administration and by phenobarbital, SKF 525-A, cysteine, dimercaprol, or thiosulfate. Archives of Toxicology 33(2): 151-161.

Gut, I., J. Nerudova, et al. (1985). Acrylonitrile inhalation in rats: II. Excretion of thioethers and thiocyanate in urine. Journal of Hygiene, Epidemiology, Microbiology and Immunology 29(1): 9-13.

Guyot, A., M. Bert, et al. (1978). Pyrolysis of acrylonitrile-methacrylic acid copolymers and derivatives. European Polymer Journal 14: 101-107.

Guyton, K. Z. and T. W. Kensler (1993). Oxidative mechanisms in carcinogenesis. British Medical Bulletin 49(3): 523-544.

Haber, L. T. and J. Patterson (2005). Report of an independent peer review of an acrylonitrile risk assessment. Human and Experimental Toxicology 24(10): 487-527.

Hachiya, N., M. Sato, et al. (1984). Detection of DNA damage in mutagen-treated mammalian tissues by alkaline elution assay. Mutation Research 130: 363.

Hachiya, N., N. Tanaka, et al. (1986). DNA damages in mammalian tissues. 3. DNA single-strand breaks and alkali-labile sites detected by alkaline elution assay. Mutation Research 164: 266.

Hagmar, L. (2001). How confident can we be that acrylonitrile is not a human carcinogen? Scandinavian Journal of Work, Environment and Health 27(1): 1-3.

Hakura, A., H. Shimada, et al. (2005). Salmonella/human S9 mutagenicity test: a collaborative study with 58 compounds. Mutagenesis 20(3): 217-228.

Hall, M. E. and J. W. Stevens, Jr. (1977). Spectrophotometric determination of acrylonitrile. Analytical Chemistry 49: 2277-2279.

Hamada, F. M., A. H. Abdel-Aziz, et al. (1998). Possible functional immunotoxicity of acrylonitrile (VCN). Pharmacological Research 37(2): 123-129.

Hamdy, N. M., F. A. Al-Abbasi, et al. (2012). Role of neutrophils in acrylonitrile-induced gastric mucosal damage. Toxicology Letters 208(2): 108-114.

Han, F., Y. Hu, et al. (2007). [Study on effects of occupational exposure to low-concentration acrylonitrile in workers]. Jiangsu Yufang Yixue = Jiangsu Journal of Preventive Medicine 18(3): 1-4.

Han, F. a., Y. Hu, et al. (2007). [Study on health effects of occupational exposure to low-concentration acrylonitrile on workers]. Jiangsu Yufang Yixue = Jiangsu Journal of Preventive Medicine 11(3): 259-262.

Han, F. a., Y. Hu, et al. (2008). [Study on health and neurobehavioral effects of workers occupational exposed to low concentration of acrylonitrile]. Huan jing yu zhi ye yi xue = Journal of environmental & occupational medicine 25(2): 125-129.

Handin, R. I. and S. Szabo (1977). Blood coagulation changes and vascular damage in the etiology of acrylonitrile induced adrenal apoplexy. Federation Proceedings 36(3): 397.

Harrison, D. J., A. L. Hubbard, et al. (1999). Microsomal epoxide hydrolase gene polymorphism and susceptibility to colon cancer. British Journal of Cancer 79(1): 168-171.

Hashimoto, K. (1980). [Toxicology of acrylonitrile (AN)]. Sangyo Eiseigaku Zasshi 22: 327-347.

Hashimoto, K. and R. Kanai (1965). Studies on the toxicology of acrylonitrile: metabolism, mode of action and therapy. Industrial Health 3: 30-46.

Hashimoto, K. and T. Kobayasi (1961). A case of acute dermatitis caused by contact with acrylonitrile. Quarterly Journal of Labor Research 9(1-4): 21-24.

Haskell, L. (1975). In vitro microbial mutagenicity studies of acrylonitrile. Wilmington, DE, E. I. du Pont de Nemours and Company.

Haskell, L. (1992). Initial submission: Acute inhalation toxicity in rats with acrylonitrile (inhibited); methyacrylonitrile (inhibited); and acetonitrile with cover letter dated 10/15/1992. Wilmington, DE, E. I. du Pont de Nemours and Company.

Haskell, L. (1992). Initial submission: teratological evaluation of inhaled acrylonitrile monomer in rats with cover letter dated 09/01/92.

Haskell, L. (1992). Initial submission: Toxicity of vinyl cyanide with cover letter dated 101592. Wilmington, DE, DuPont Chemical Company.

Haskovec, C., I. Gut, et al. (1988). Acrylonitrile depletes glutathione without changing calcium sequestration in hepatic microsomes and mitochondria. Toxicology 48(1): 87-92.

Hassett, C., J. Lin, et al. (1997). Human hepatic microsomal epoxide hydrolase: comparative analysis of polymorphic expression. Archives of Biochemistry and Biophysics 337(2): 275-283.

Hatch, G. T., E. Anderson, et al. (1983). Status of enhancement of DNA viral transformation for determination of mutagenic and carcinogenic potential of gaseous and volatile compounds. Environmental Mutagenesis 5: 422.

Health, C. (2000). Priority substances list assessment report: Acrylonitrile. Gatineau, Canada, Minister of Public Works and Government Services.

Hedlund, B. and T. Bartfai (1979). The importance of thiol- and disulfide groups in agonist and antagonist binding to the muscarinic receptor. Molecular Pharmacology 15(3): 531-544.

Heidelberger, C., A. E. Freeman, et al. (1983). Cell transformation by chemical agents--a review and analysis of the literature A report of the US Environmental Protection Agency Gene-Tox Program. DNA Repair 114(3): 283-385.

Heinrichs, W. L. and M. R. Juchau, Eds. (1980). Extrahepatic drug metabolism: The gonads.

Henry, L. A., K. C. Falkner, et al. (2010). 24% of elastomer/polymer workers with high-level occupational exposures to acrylonitrile, 1,3 butadiene, or styrene have serum biochemical markers consistent with toxicant-associated steatohepatitis (Tash). Hepatology 52(S1): 466A-467A.

Hesterberg, T., S. Maness, et al. (1988). Lack of genotoxic activity of acrylonitrile to human bronchial epithelial cells grown in culture and in xenografted tracheas. Environmental and Molecular Mutagenesis 11(Supplement 11): 46.

Hoffmann, P. and H. G. Mletzko (1972). [Liver respiration of rats under the combined effect of noise and acrylonitrile]. Zeitschrift für die gesamte Hygiene und ihre Grenzgebiete 18(3): 166-168.

Hogy, L. L. (1986). Metabolism of acrylonitrile and interactions with DNA (adduct, carcinogen, epoxide). Doctoral Dissertation, Vanderbilt University.

Hogy, L. L. and F. P. Guengerich (1986). In vivo interaction of acrylonitrile and 2-cyanoethylene oxide with DNA in rats. Cancer Research 46(8): 3932-3938.

Holecek, V. and J. Kopecký (1983). Conjugations of acrylonitrile and glycidonitrile with glutathione--a contribution to problems of metabolism of acrylonitrile. Czechoslovak Medicine 6(2): 116-121.

Holmberg, B. (1984). The toxicology of monomers of the polyvinyl plastic series. Progress in Clinical and Biological Research 141: 99-112.

Horácek, J. and K. Dědic (1990). [Granulomatous processes in the lungs]. Cesko-Slovenska Patologie a Soudni Lekarstvi 26(2): 97-101.

Hosaka, S. and S. Wakamatsu (1968). Photodimerization of acrylonitrile. Tetrahedron Letters 2: 219-220.

Hradec, J., B. Spiegelhalder, et al. (1988). The initiator TRNA acceptance assay as a short-term test for carcinogens. 2. Results with ten compounds selected by the International Programme on Chemical Safety for the evaluation of short-term tests for carcinogens. Carcinogenesis 9(5): 843-846.

Hsdb (2003). Acrylonitrile. Bethesda, MD, National Library of Medicine.

Huang, J., X. Wu, et al. (2005). [Effects of acrylonitrile on levels of sexual hormone in sera of rats and mice]. Gongye Weisheng yu Zhiyebin / Industrial health and occupational diseases 31(4): 237-240.

Huang, J. S., X. J. Zhong, et al. (2005). [Effects of acrylonitrile on the activities of antioxidant enzymes and levels of lipid peroxidation in rat testes]. Zhonghua Laodong Weisheng Zhiyebing Zazhi 23(2): 136-138.

Huang, W. Q. and W. Xiao (2007). [Research advance of genotoxicity and carcinogenicity of acrylonitrile]. Zhonghua Laodong Weisheng Zhiyebing Zazhi 25(3): 176-180.

Hughes, T. W. and D. A. Horn (1977). Source assessment: acrylonitrile manufacture (air emissions), Hughes, TW; Horn, DA.

Humiston, C. G., L. O. Frauson, et al. (1975). A 90-day oral toxicity study incorporating acrylonitrile in the drinking water of rats. Washington, DC, The Chemical Manufacturers Association.

Hung, D., C. Hsu, et al. (2005). Cyanide intoxication in an acrylonitrile chemical accident. Clinical Toxicology 43(6): 751.

Hurtt, M. E., K. S. Bentley, et al. (1987). Effects of acrylamide and acrylonitrile on unscheduled DNA synthesis (UDS) in rat spermatocytes. Environmental Mutagenesis 9(Suppl 8): 49-50.

IARC (1999). Acrylonitrile. IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Lyon, France. 71: 43-108.

IARC (2003). Predictive value of rodent forestomach and gastric neuroendocrine tumours in evaluating carcinogenic risks to humans, views and expert opinions of an IARC Working Group.

IARC (2006). IARC Monographs on the evaluation of carcinogenic risks to humans, International Agency for Research on Cancer, World Health Organization.

Ikeda, S. R., R. S. Aronstam, et al. (1980). Nature of regional and chemically-induced differences in the binding properties of muscarinic acetylcholine receptors from rat brain. Neuropharmacology 19(6): 575-585.

IPCS (1983). Acrylonitrile. Environmental Health Criteria. Geneva, Switzerland, World Health Organization. 28: 77.

IPCS (1985). Summary report on the evaluation of short-term tests for carcinogens (collaborative study on in-vitro tests). Environmental Health Criteria. Geneva, Switzerland, World Health Organization. 47.

Irwin, R. D., S. L. Eustis, et al. (1996). Carcinogenicity of glycidol in F344 rats and B6C3F1 mice. Journal of Applied Toxicology 16(3): 201-209.

Ishidate, M., Jr. (1982). Mammalian cell systems as a screening tool for the detection of possible mutagens and/or carcinogens in the environment. Eisei Kagaku / Journal of Hygienic Chemistry (1956-1986) 28: 291-304.

Ishidate, M., K. F. Miura, et al. (1998). Chromosome aberration assays in genetic toxicology testing in vitro. Mutation Research 404(1-2): 167-172.

Ishidate, M., Jr. and T. Sofuni (1985). The in vitro chromosomal aberration test using Chinese hamster lung (CHL) fibroblast cells in culture. Progress in Mutation Research 5: 427-432.

Ishidate, M., Jr., T. Sofuni, et al., Eds. (1981). Chromosomal aberration tests in vitro as a primary screening tool for environmental mutagens and/or carcinogens. Tokyo, Japan, Japan Scientific Societies Press.

Ishidate, M. J. (1983). Tests Courts de Cancerogenese: Quo Vadis?
Application of chromosomal aberration tests in vitro to the primary screening for chemicals with carcinogenic and/or genetic hazards.

Ishidate, M. J. and K. Yoshikawa (1980). Further studies in the assessment of toxic actions , Archives of Toxicology Supplement, v. 4
Chromosome aberration tests with Chinese hamster cells in vitro with and without metabolic activation: A comparative study on mutagens and carcinogens. New York, NY, Springer.

Ivanescu, M., M. Berinde, et al. (1990). Testosterone in sera of workers exposed to acrylonitrile. Revue Roumaine de Médecine 28(3-4): 187-192.

Ivanov, V., J. Rahier, et al. (1989). Lipid peroxidation in acrylonitrile-treated rats, evidenced by elevated ethane production. Journal of Applied Toxicology 9: 353-358.

Ivanov, V. V. (1981). [Evaluation of the role of acrylonitrile metabolism in the mechanism of its toxic action]. Gigiena Truda i Professional'nye Zabolevaniya 25(9): 48-50.

Ivanov, V. V. and A. M. Al'Shanskii (1982). [gamma-Aminobutyric acid-ergic components and lipid peroxidation during acute exogenous acrylonitrile poisoning]. Byulleten' Eksperimental'noi Biologii i Meditsiny 94(7): 40-43.

Ivanov, V. V., D. A. Grishchenko, et al. (1979). [Blood serum enzymes in assessing the nature of the liver lesion and the effectiveness of chemotherapeutic actions in acrylonitrile poisoning]. Voprosy Meditsinskoĭ Khimii 25(6): 715-718.

Ivanov, V. V. and L. G. Klimatskaia (1984). [Use of antioxidants for preventing the hepatotoxic effect of acrylonitrile]. Farmakologiya i Toksikologiya 47(5): 96-100.

Ivanov, V. V. and L. G. Klimatskaia (1987). [Antioxidants in preventing the toxic effect of acrylonitrile]. Gigiena Truda i Professional'nye Zabolevaniya(8): 20-22.

Ivanov, V. V., G. P. Kuznetsova, et al. (1978). [Acrylonitrile stimulation of lipid peroxidation in rat liver]. Voprosy Meditsinskoĭ Khimii 24(6): 816-818.

Ivanov, V. V., G. F. Zhirnov, et al. (1982). [Acrylonitrile activation in the microsomal oxidation system]. Voprosy Meditsinskoĭ Khimii 28(2): 95-98.

Ivanov, V. V., G. F. Zhirnov, et al. (1979). [Interaction of acrylonitrile with the microsomal oxidation system of the rat liver]. Voprosy Meditsinskoĭ Khimii 25(4): 468-471.

Jackson, M. A., H. F. Stack, et al. (2000). A review of the genetic and related effects of 1,3-butadiene in rodents and humans. Mutation Research 463(3): 181-213.

Jacob, S. and A. E. Ahmed (2003). Acrylonitrile-induced neurotoxicity in normal human astrocytes: oxidative stress and 8-hydroxy-2'-deoxyguanosine formation. Toxicology Mechanisms and Methods 13(3): 169-179.

Jacob, S. and A. E. Ahmed (2003). Effect of route of administration on the disposition of acrylonitrile: quantitative whole-body autoradiographic study in rats. Pharmacological Research 48(5): 479-488.

Jacob, S. and A. E. Ahmed (2004). Species difference in the disposition of acrylonitrile: Quantitative whole-body autoradiographic study in rats and mice. Toxicology and Industrial Health 20(1-5): 9-19.

Jacobs, H. W. and R. H. Syrjala (1978). The use of infrared analyzers for monitoring acrylonitrile. American Industrial Hygiene Association Journal 39: 161-165.

Jaeger, R. J. (1978). Effect of hypoxia on the toxicity of 1,1-dichloroethylene or acrylonitrile. Toxicology and Applied Pharmacology 45(1): 257.

Jaeger, R. J., I. L. Cote, et al. (1984). Acute toxicity of acrylonitrile: Effect of diet on tissue nonprotein sulfhydryl content and distribution of 1-14c-acrylonitrile or its metabolites. Journal of the American College of Toxicology 3(1): 93-102.

Jaeger, R. J., I. L. Cote, et al. (1982). Effect of hypoxia on the acute toxicity of acrylonitrile. Research Communications in Molecular Pathology and Pharmacology 36: 345-348.

Jakubowski, M., I. Linhart, et al. (1987). 2-cyanoethylmercapturic acid (CEMA) in the urine as a possible indicator of exposure to acrylonitrile. Occupational and Environmental Medicine 44(12): 834-840.

Janus, F., N. Albrechtsen, et al. (1999). The dual role model for p53 in maintaining genomic integrity. Cellular and Molecular Life Sciences (CMLS) 55(1): 12-27.

Jedlicka, V., A. Pasek, et al. (1958). Pesticides in foods. III. Acrylonitrile as a food insecticide. Journal of Hygiene, Epidemiology, Microbiology and Immunology 2(1): 116-125.

Jerca, L., A. Busuioc, et al. (1992). [Glutathione and the redox index in different types of cellular oxidative stress. I. Acrylonitrile (ACN) poisoning]. Revista medico-chirurgicală a Societăţii de Medici şi Naturalişti din Iaşi 96(3-4): 219-222.

Jetoc (1997). Mutagenicity test data of existing chemical substances based on the toxicity investigation system of the industrial safety and health law: Supplement 3.

Jiang, J., Y. Xu, et al. (1998). Induction of oxidative stress in rat brain by acrylonitrile (ACN). Toxicological Sciences 46(2): 333-341.

Jiao, Z., X. Pei, et al. (2008). [Effects of acrylonitrile on the activation of nuclear factor-kappaB signaling pathways and related gene expression in rat brain and rat glial cells]. Wei Sheng Yan Jiu [Journal of Hygiene Research] 37(3): 264-268.

Jiao, Z. Q., Y. C. Guo, et al. (2008). [The effects of acrylonitrile on cell apoptosis, proliferation and related genes expression of rat normal and tumor glial cells]. Zhonghua Yufang Yixue Zazhi 42(6): 405-409.

Jiménez, E. and M. Montiel (2005). Activation of MAP kinase by muscarinic cholinergic receptors induces cell proliferation and protein synthesis in human breast cancer cells. Journal of Cellular Physiology 204(2): 678-686.

Jin, N., G. y. Ma, et al. (2010). [Effect of acrylonitrile on oxidative damage in brain tissues of mice]. Huan Jing Yu Jian Kang Za Zhi / Journal of Environment and Health 27(12): 1053-1055.

Johannsen, F. R. and J. P. Kehrer (2002). Special issue: Studies of oral acrylonitrile exposure in rats: Carcinogenicity, reproductive and chronic toxicity. Toxicology Letters 132: 153-267.

Johannsen, F. R. and G. J. Levinskas (1986). Relationships Between Toxicity and Structure of Aliphatic Nitriles. Fundamental and Applied Toxicology 7(4): 690-697.

Johannsen, F. R. and G. J. Levinskas (2002). Chronic toxicity and oncogenic dose-response effects of lifetime oral acrylonitrile exposure to Fischer 344 rats. Toxicology Letters 132(3): 221-247.

Johannsen, F. R. and G. J. Levinskas (2002). Comparative chronic toxicity and carcinogenicity of acrylonitrile by drinking water and oral intubation to Spartan Sprague-Dawley rats. Toxicology Letters 132(3): 197-219.

Johnson, T. N. (2003). The development of drug metabolising enzymes and their influence on the susceptibility to adverse drug reactions in children. Toxicology 192(1): 37-48.

Johnsrud, E. K., S. B. Koukouritaki, et al. (2003). Human hepatic CYP2E1 expression during development. Journal of Pharmacology and Experimental Therapeutics 307(1): 402-407.

Johnston, P. K. and A. R. Rock (1990). A risk assessment for acrylonitrile in consumer products. Science of the Total Environment 99(3): 263-277; discussion 277-269.

Joshi, S. B. (1977). Letter to J Cirvello, US EPA, regarding photochemical reactivity of acrylonitrile.

Jung, R., G. Engelhart, et al. (1992). Collaborative study of mutagenicity with Salmonella typhimurium TA102. Mutation Research 278(4): 265-270.

Kailasam, S. and K. R. Rogers (2007). A fluorescence-based screening assay for DNA damage induced by genotoxic industrial chemicals. Chemosphere 66(1): 165-171.

Kamber, M., S. Flueckiger-Isler, et al. (2009). Comparison of the Ames II and traditional Ames test responses with respect to mutagenicity, strain specificities, need for metabolism and correlation with rodent carcinogenicity. Mutagenesis 24(4): 359-366.

Kamendulis, L. M., J. Jiang, et al. (1999). Induction of oxidative stress and oxidative damage in rat glial cells by acrylonitrile. Carcinogenesis 20(8): 1555-1560.

Kamendulis, L. M., J. Jiang, et al. (1999). The effect of acrylonitrile on gap junctional intercellular communication in rat astrocytes. Cell Biology and Toxicology 15(3): 173-183.

Kamijo, K., K. Kovacs, et al. (1986). Effect of acrylonitrile on the rat pituitary: enlargement of Golgi region in prolactin cells, crinophagy in prolactin cells and growth hormone cells. British Journal of Experimental Pathology 67(3): 439-451.

Kamiya, H., K. Miura, et al. (1992). c-Ha-ras containing 8-hydroxyguanine at codon 12 induces point mutations at the modified and adjacent positions. Cancer Research 52(12): 3483-3485.

Kaneko, K. and K. Omae (1992). Effect of chronic exposure to acrylonitrile on subjective symptoms. Keio Journal of Medicine 41(1): 25-32.

Kanerva, L., R. Jolanki, et al. (1999). Patch-test reactions to plastic and glue allergens. Acta Dermato Venereologica 79(4): 296-300.

Kanerva, L., R. Jolanki, et al. (1997). Allergic and irritant patch test reactions to plastic and glue allergens. Contact Dermatitis 37(6): 301-302.

Kankaanpaa, J., E. Elovaara, et al. (1979). Embryotoxicity of acrolein, acrylonitrile and acrylamide in developing chick embryos. Toxicology Letters 4(2): 93-96.

Kaplan, A. M. (2009). [Letter from DuPont Haskell Global Centers to U.S. Environmental Protection Agency regarding results of a pre-1977 (1968) acute dermal toxicity study]. Newark, DE, DuPont Haskell Global Centers for Health and Environmental Sciences.

Kapp, R. W., Jr., R. W. Tyl, et al. (1997). A weight-of-evidence review of acrylonitrile reproductive and developmental toxicity. Toxicologist 36(1 Pt 2): 260.

Kauppinen, T., T. Partanen, et al. (1995). Pancreatic cancer and occupational exposures. Epidemiology 6(5): 498-502.

Kawachi, T., T. Komatsu, et al., Eds. (1980). Results of recent studies on the relevance of various short-term screening tests in Japan. Amsterdam, The Netherlands, Elsevier.

Kawachi, T., T. Yahagi, et al. (1980). Cooperative program on short-term assays for carcinogenicity in Japan, Agency for Toxic Substances and Diseases Registry (ATSDR). INT AGENCY RES CANCER: 323-330.

Kedderis, G. (1997). Extrapolation of in vitro enzyme induction data to humans in vivo. Chemico-Biological Interactions 107(1-2): 109-121.

Kedderis, G. L. (1997). Development of a physiologically based dosimetry description for acrylonitrile (ACN) in humans. Toxicologist 36(1, Pt. 2): 31.

Kedderis, G. L. and R. Batra (1991). Species differences in the hydrolysis of 2-cyanoethylene oxide, the epoxide metabolite of acrylonitrile. Proceedings of the Annual Meeting of the American Association for Cancer Research 32: 118.

Kedderis, G. L. and R. Batra (1993). Species differences in the hydrolysis of 2-cyanoethylene oxide, the epoxide metabolite of acrylonitrile. Carcinogenesis 14(4): 685-689.

Kedderis, G. L., R. Batra, et al. (1993). Rodent tissue distribution of 2-cyanoethylene oxide, the epoxide metabolite of acrylonitrile. Toxicology Letters 69(1): 25-30.

Kedderis, G. L., R. Batra, et al. (1993). Epoxidation of acrylonitrile by rat and human cytochromes P450. Chemical Research in Toxicology 6(6): 866-871.

Kedderis, G. L., R. Batra, et al. (1995). Conjugation of acrylonitrile and 2-cyanoethylene oxide with hepatic glutathione. Toxicology and Applied Pharmacology 135(1): 9-17.

Kedderis, G. L. and S. D. Held (1998). Refinement of the human dosimetry description for acrylonitrile (ACN). Toxicologist 42(1-S): 142.

Kedderis, G. L., S. C. Sumner, et al. (1993). Dose-dependent urinary excretion of acrylonitrile metabolites by rats and mice. Toxicology and Applied Pharmacology 120(2): 288-297.

Kedderis, G. L., S. K. Teo, et al. (1996). Refinement and verification of the physiologically based dosimetry description for acrylonitrile in rats. Toxicology and Applied Pharmacology 140(2): 422-435.

Kemper, R. A., R. J. Krause, et al. (2001). Metabolism of butadiene monoxide by freshly isolated hepatocytes from mice and rats: different partitioning between oxidative, hydrolytic, and conjugation pathways. Drug Metabolism and Disposition 29(6): 830-836.

Khan, H. A., A. S. Alhomida, et al. (2009). Neurovestibular toxicities of acrylonitrile and iminodipropionitrile in rats: a comparative evaluation of putative mechanisms and target sites. Toxicological Sciences 109(1): 124-131.

Khan, H. A., A. S. Alhomida, et al. (2009). On the mechanism of nitriles toxicity. Toxicological Sciences 110(1): 246-248.

Khudoley, V. V., I. Mizgireuv, et al. (1987). The study of mutagenic activity of carcinogens and other chemical agents with Salmonella typhimurium assays: Testing of 126 compounds. Archiv fuer Geschwulstforschung 57(6): 453-462.

Kier, L. D., D. J. Brusick, et al. (1986). The Salmonella typhimurium/mammalian microsomal assay. A report of the U.S. Environmental Protection Agency Gene-Tox Program.Mutation Research 168(2): 69-240.

Kiesselbach, N., U. Korallus, et al. (1979). [Acrylonitrile--epidemiological study--Bayer 1977: A report on a prospective epidemiological study with a past beginning of coworkers at the Leverkusen plant of Bayer AG with acrylonitrile (ACN) exposure]. Zentralblatt fuer Arbeitsmedizin, Arbeitsschutz und Prophylaxe 29(10): 256-259.

Kiesselbach, N., U. Korallus, et al. (1980). [Bayer-ACN (acrylonitrile) study]. Schriftenreihe Zentralblatt fuer Arbeitsmedizin, Arbeitsschutz, Prophylaxe und Ergonomie 7: 5-62.

Kim, R. B., H. Yamazaki, et al. (1996). In vivo and in vitro characterization of CYP2E1 activity in Japanese and Caucasians. Journal of Pharmacology and Experimental Therapeutics 279(1): 4-11.

Kirkland, D., M. Aardema, et al. (2005). Evaluation of the ability of a battery of three in vitro genotoxicity tests to discriminate rodent carcinogens and non-carcinogens. I. Sensitivity, specificity and relative predictivity. [Erratum to document cited in CA143:243161]. Mutation Research: Genetic Toxicology and Environmental Mutagenesis 588(1): 70.

Kirkland, D., M. Aardema, et al. (2005). Evaluation of the ability of a battery of three in vitro genotoxicity tests to discriminate rodent carcinogens and non-carcinogens: I. Sensitivity, specificity and relative predictivity. Mutation Research 584(1-2): 1-256.

Kirkland, D. and G. Speit (2008). Evaluation of the ability of a battery of three in vitro genotoxicity tests to discriminate rodent carcinogens and non-carcinogens III. Appropriate follow-up testing in vivo. Mutation Research: Genetic Toxicology and Environmental Mutagenesis 654(2): 114-132.

Kirman, C. R., M. Gargas, et al. (2004). Updated cancer risk assessment of acrylonitrile. Toxicologist 78(1-S): 368.

Kirman, C. R., M. L. Gargas, et al. (2005). Cancer dose--response assessment for acrylonitrile based upon rodent brain tumor incidence: use of epidemiologic, mechanistic, and pharmacokinetic support for nonlinearity. Regulatory Toxicology and Pharmacology 43(1): 85-103.

Kirman, C. R., S. M. Hays, et al. (2000). Improving cancer dose-response characterization by using physiologically based pharmacokinetic modeling: an analysis of pooled data for acrylonitrile-induced brain tumors to assess cancer potency in the rat. Risk Analysis 20(1): 135-151.

Kirman, C. R., L. M. Sweeney, et al. (2008). Derivation of noncancer reference values for acrylonitrile. 28(5): 1375-1394.

Klaasen, C. D. (2001). Casarett and Doull's toxicology: The basic science of poisons, McGraw-Hill Companies, Inc.

Kleihues, P. and J. Bucheler (1977). Long-term persistence of O6-methylguanine in rat brain DNA. Nature 269(5629): 625-626.

Knaap, A. G. A., C. E. Voogd, et al. (1985). Mutagenicity of vinyl compounds. Mutation Research 147(5): 303.

Knobloch, K., S. Szendzikowski, et al. (1971). Badania doswiadczalne nad ostrym i podostrym dzialaniem toksycznym akrylonitrylu [Acute and subacute toxicity of acrylonitrile]. Medycyna Pracy 22: 257-269.

Kodama, Y., C. J. Boreiko, et al. (1989). Cytogenetic analysis of spontaneous and 2-cyanoethylene oxide-induced tk-/- mutants in TK6 human lymphoblastoid cultures. Environmental and Molecular Mutagenesis 14(3): 149-154.

Koerselman, W. and M. van der Graaf (1984). Acrylonitrile: A suspected human carcinogen. International Archives of Occupational and Environmental Health 54(4): 317-324.

Kohn, M. C. and R. L. Melnick (2000). The privileged access model of 1,3-butadiene disposition. Environmental Health Perspectives 108 Suppl 5: 911-917.

Komanicky, P., S. Szabo, et al. (1981). Acrylonitrile induced impairment of adrenocortical function in the rat time dependent and dose dependent response. Clinical Research 29(2): 294A.

Kopecky, J., I. Gut, et al. (1980). 2 routes of acrylonitrile metabolism. Journal of Hygiene, Epidemiology, Microbiology and Immunology 24(3): 356-362.

Kopecký, J., I. Gut, et al. (1980). Two routes of acrylonitrile metabolism. Journal of Hygiene, Epidemiology, Microbiology and Immunology 24(3): 356-362.

Kopecky, J., I. Gut, et al. (1980). Acrylonitrile metabolism in the rat. Archives of Toxicology 4: 322-324.

Kopecký, J., D. Zachardová, et al. (1980). New findings on acrylonitrile metabolism. Czechoslovak Medicine 3(4): 295-301.

Kopylev, L., C. Chen, et al. (2007). Towards quantitative uncertainty assessment for cancer risks: Central estimates and probability distributions of risk in dose-response modeling. Regulatory Toxicology and Pharmacology 49(3): 203-207.

Krause, R. J., J. E. Sharer, et al. (1997). Epoxide hydrolase-dependent metabolism of butadiene monoxide to 3-butene-1,2-diol in mouse, rat, and human liver. Drug Metabolism and Disposition 25(8): 1013-1015.

Krishna, G., J. Nath, et al. (1986). A comparison of baseline and cyclophosphamide-induced sister chromatid exchanges in bone marrow and spleen cells of mouse and Chinese hamster. Environmental Mutagenesis 8(3): 449-459.

Krishnan, K. and G. Johanson (2005). Physiologically-based pharmacokinetic and toxicokinetic models in cancer risk assessment. Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances and Environmental Engineering 23(1): 31 - 53.

Krysiak, B. and K. Knobloch (1900). [Effect of acrylonitrile on the central nervous system]. Medycyna Pracy 22(6): 601-610.

Kurian, P., S. Nesnow, et al. (1990). Quantitative Evaluation of the Effects of Human Carcinogens and Related Chemicals on Human Foreskin Fibroblasts. Cell Biology and Toxicology 6(2): 171-184.

Kuznetsov, P. P. and V. I. a. Shustov (1986). [Hematological indicators after exposure to acrylonitrile (review of the literature)]. Gigiena Truda i Professional'nye Zabolevaniya(7): 41-43.

Labs, W. I. L. R. (2005). Acute inhalation toxicity study of acrylonitrile in albino rats.

Lakhanisky, T. H. and B. Hendrickx (1985). Induction of DNA single-strand breaks in CHO cells in culture. Progress in Mutation Research 5: 367-370.

Lambotte, M., M. Duverger, et al. (1981). Mutagenicity of metabolites of acrylonitrile detected in urine. Mutation Research 85(4): 269.

Lambotte-Vandepaer, M. and M. Duverger-Van Bogaert (1984). Genotoxic properties of acrylonitrile. Mutation Research 134(1): 49-59.

Lambotte-Vandepaer, M., M. Duverger-Van Bogaert, et al. (1980). In vivo biotransformation routes and mutagenicity of acrylonitrile. Toxicology Letters Special Issue 1: 250.

Lambotte-Vandepaer, M., M. Duverger-Van Bogaert, et al. (1982). Role of glutathione in the mutagenic activity of acrylonitrile. Mutation Research 97(3): 200-201.

Lambotte-Vandepaer, M., M. Duverger-van Bogaert, et al. (1980). Mutagenicity of urine from rats and mice treated with acrylonitrile. Toxicology 16(1): 67-71.

Lambotte-Vandepaer, M., M. Duverger-Van Bogaert, et al. (1981). Identification of two urinary metabolites of rats treated with acrylonitrile; influence of several inhibitors on the mutagenicity of those urines. Toxicology Letters 7(4-5): 321-327.

Lambotte-Vandepaer, M., M. Duverger-Van Bogaert, et al. (1985). Metabolism and mutagenicity of acrylonitrile: an in vivo study. Environmental Mutagenesis 7(5): 655-662.

Lamsabhi, A. M., O. Mol, et al. (2008). Ni+ Reactions with Aminoacrylonitrile, A Species of Potential Astrochemical Relevance. The Journal of Physical Chemistry Part A: Molecules, Spectroscopy, Kinetics, Environment and General Theory 112(42): 10509-10515.

Langvardt, P. W., C. L. Putzig, et al. (1980). Identification of the major urinary metabolites of acrylonitrile in the rat. Journal of Toxicology and Environmental Health 6: 273-282.

Langvardt, P. W., C. L. Putzig, et al. (1979). Isolation and identification of urinary metabolites of vinyl-type compounds: Application to metabolites of acrylonitrile and acrylamide. Toxicology and Applied Pharmacology 48: A161.

Larsson, R. and P. Cerutti (1989). Translocation and enhancement of phosphotransferase activity of protein kinase C following exposure in mouse epidermal cells to oxidants. Cancer Research 49(20): 5627-5632.

Lawrence, N. and D. B. McGregor (1985). Assays for the induction of morphological transformation in C3H/10T1/2 cells in culture with and without S9-mediated metabolic activation. Progress in Mutation Research 5: 651-658.

Lawton, A. H., T. R. Sweeney, et al. (1943). Toxicology of Acrylonitrile (Vinyl Cyanide) III. Determination of Thiocyanates in Blood and Urine. Journal of Industrial Hygiene and Toxicology 25(1): 13-19.

Lee, C. G. and T. D. Webber, Eds. (1985). The induction of gene mutations in the mouse lymphoma L5178Y/TK+/- assay and the Chinese hamster V79/HGPRT assay. Amsterdam, The Netherlands, Elsevier.

Lee, W. R., S. Abrahamson, et al. (1983). The sex-linked recessive lethal test for mutagenesis in Drosophila melanogaster: A report of the U.S. Environmental Protection Agency Gene-Tox Program. Mutation Research: Reviews in Genetic Toxicology 123(2): 183-279.

Leng, G. and J. Lewalter (2002). Polymorphism of glutathione S-transferases and susceptibility to acrylonitrile and dimethylsulfate in cases of intoxication. Toxicology Letters 134(1-3): 209-217.

Leonard, A., V. Garny, et al. (1981). Mutagenicity of acrylonitrile in mouse. Toxicology Letters 7: 329-334.

Léonard, A., G. B. Gerber, et al. (1999). Mutagenicity, carcinogenicity, and teratogenicity of acrylonitrile. Mutation Research 436(3): 263-283.

Lewis D, F. V., C. Ioannides, et al. (1998). Cytochromes P450 and species difference in xenobiotic metabolism and activation of carcinogen. Environmental Health Perspectives 106(10): 633-641.

Lewis, R. and G. Rempala (2003). A case-cohort study of angiosarcoma of the liver and brain cancer at a polymer production plant. Journal of Occupational and Environmental Medicine 45(5): 538-545.

Lewis, R., S. Winters, et al. (2002). Serum inhibin-B and FSH levels in male polymer production workers. Louisville, KY, University of Louisville. NTIS: 44 pp.

Li, J. (1999). Acrylonitrile acute intoxication: Toxicodynamics and the effect of antidotes, Li, J. 60.

Li, S., Z. q. Wang, et al. (2008). [Effect of acrylonitrile on serum nitric oxide of mice]. Gongye Weisheng yu Zhiyebin / Industrial health and occupational diseases 34(3): 140-142.

Li, Z. (2000). Study on reproductive organs in female workers exposed to acrylonitrile. Lanzhou Medical College, Lanzhou Medical College.

Li, Z., X. Zhang, et al. (2002). [Studies on the effects of acrylonitrile on germ cells in male mice]. Zhongguo Gongye Yixue Zazhi 15(4): 193-195.

Liber, H. L., Ed. (1985). Mutation tests with salmonella using 8-azaguanine resistance as the genetic marker. Amsterdam, The Netherlands, Elsevier.

Lijinsky, W. and A. W. Andrews (1980). Mutagenicity of vinyl compounds in Salmonella typhimurium. Teratogenesis, Carcinogenesis, and Mutagenesis 1(3): 259-267.

Linhart, I. and M. Jakubowski (1988). [Thio ether elimination in human urine after experimental exposure to acrylonitrile vapors]. Pracovní Lékarství 40(5): 197-201.

Linhart, I., J. Smejkal, et al. (1988). N-acetyl-S-(1-cyano-2-hydroxyethyl)-L-cysteine, a new urinary metabolite of acrylonitrile and oxiranecarbonitrile. Archives of Toxicology 61(6): 484-488.

Lipscomb, J. C., J. W. Fisher, et al. (1998). In vitro to in vivo extrapolation for trichloroethylene metabolism in humans. Toxicology and Applied Pharmacology 152(2): 376-387.

Lipscomb, J. C., L. K. Teuschler, et al. (2003). The impact of cytochrome P450 2E1-dependent metabolic variance on a risk-relevant pharmacokinetic outcome in humans. Risk Analysis 23(6): 1221-1238.

Litton, B. (1992). Initial submission: Three-generation reproduction study of rats receiving acrylonitrile in drinking water (final report) with attachments and cover letter dated 043092. Washington, DC, Manufacturing Chemists Association.

Liu, F., X. D. Jian, et al. (2010). [Clinical analysis of occupational acute acrylonitrile poisoning]. Zhonghua Laodong Weisheng Zhiyebing Zazhi 28(6): 470.

Liu, X., W. Xiao, et al. (2004). [Effect of acrylonitrile on the spermatogenesis in mice]. Wei Sheng Yan Jiu [Journal of Hygiene Research] 33(3): 345-347.

Liu, Y. and N. Hu (2008). Enhanced DNA Oxidative Damage by Acrylonitrile and Protecting DNA from Damage with an Outer Catalase Layer: an Electrochemical Study. Electroanalysis 20(24): 2671-2676.

Llorens, J., D. Dememes, et al. (1993). The behavioral syndrome caused by 3,3'-iminodipropionitrile and related nitriles in the rat is associated with degeneration of the vestibular sensory hair cells. Toxicology and Applied Pharmacology 123(2): 199-210.

Llorens, J., C. Soler-Martín, et al. (2009). Nervous and vestibular toxicities of acrylonitrile and iminodipropionitrile. Toxicological Sciences 110(1): 244-245; author reply 246-248.

Lochmann, E. R., W. Ehrlich, et al. (1984). The effect of trichloroethylene and acrylonitrile on RNA and ribosome synthesis and ribosome content in Saccharomyces cells. Ecotoxicology and Environmental Safety 8(2): 162-166.

Long, G., M. E. Meek, et al. (2001). Acrylonitrile: Hazard characterization and exposure-response analysis. Journal of environmental Science and Health, Part C: Environmental Carcinogenesis & Ecotoxicology Reviews C19(1): 45-75.

Loprieno, N., G. Boncristiani, et al., Eds. (1985). Assays for forward mutation in Schizosaccharomyces pombe strain P1. Amsterdam, The Netherlands, Elsevier.

Lorz, H. (1950). [Percutaneous intoxication with acrylonitrile]. Deutsche Medizinische Wochenschrift 75(33-34): 1087-1088.

Lorz, H. (1950). [Percutaneous poisoning with acrylonitrile]. Deutsche Medizinische Wochenschrift 75: 33-34.

Lu, R., Z. Chen, et al. (2005). [Effect of acrylonitrile on monoamine neurotransmitters and their metabolites in the brains of rats.]. Chinese Journal of Preventive Medicine 38: 122-126.

Lu, R., Z. Chen, et al. (2001). [Neurobehavioral characteristics in workers exposed to acrylonitrile]. Zhonghua Laodong Weisheng Zhiyebing Zazhi 19(6): 408-411.

Lu, R., F. Jin, et al. (2002). [Research progress of acrylonitrile (AN) in neurotoxicity]. Zhonghua Laodong Weisheng Zhiyebing Zazhi 20(1): 73-75.

Lu, R., S. Wang, et al. (2004). [Oxidative stress in rat brain cortexes induced by acrylonitrile]. Weisheng Dulixue Zazhi 18(4): 212-214.

Lu, R., S. Wang, et al. (2007). [Histopathology of neurotoxicity and expression of nerve specific proteins in male rats exposed to acrylonitrile]. Weisheng Dulixue Zazhi 21(3): 183-186.

Lu, R. Z., Z. Q. Chen, et al. (2005). [Effects of acrylonitrile in drinking water on monoamine neurotransmitters and its metabolites in male rat brains]. Zhonghua Yufang Yixue Zazhi 39(2): 122-125.

Lucas, D., F. Berthou, et al. (1993). Comparison of levels of cytochromes P-450, CYP1A2, CYP2E1, and their related monooxygenase activities in human surgical liver samples. Alcoholism: Clinical and Experimental Research 17(4): 900-905.

Luterman, A., D. Manwaring, et al. (1977). The role of fibrinogen degradation products in the pathogenesis of the respiratory distress syndrome. Surgery 82(5): 703-709.

Ma, B., J. Cui, et al. (2003). [Effects on lipid peroxidation in male workers exposed to acrylonitrile]. Zhongguo Gongye Yixue Zazhi 16(1): 17-19.

Ma, M., Y. Zhang, et al. (2000). [Study on the lipid peroxidation effect of acrylonitrile in male rats]. Zhongguo Gongye Yixue Zazhi 13(3): 138-140.

Macneela, J. P., S. M. Osterman-Golkar, et al. (1992). 2-Cyanoethylvaline in hemoglobin as a dosimeter for exposure to acrylonitrile. Proceedings of the American Association for Cancer Research 33: 147.

Maekawa, A. and K. Mitsumori (1990). Spontaneous occurrence and chemical induction of neurogenic tumors in rats influence of host factors and specificity of chemical structure. Critical Reviews in Toxicology 20(4): 287-310.

Magos, L. (1962). A study of acrylonitrile poisoning in relation to methaemoglobin-CN complex formation. Occupational and Environmental Medicine 19: 283-286.

Mahalakshmi, K., G. Pushpakiran, et al. (2003). Taurine prevents acrylonitrile-induced oxidative stress in rat brain. Polish journal of pharmacology 55(6): 1037-1043.

Major, J., A. Hudák, et al. (1998). Follow-up biological and genotoxicological monitoring of acrylonitrile- and dimethylformamide-exposed viscose rayon plant workers. Environmental and Molecular Mutagenesis 31(4): 301-310.

Major, J., M. G. Jakab, et al. (1999). The frequency of induced premature centromere division in human populations occupationally exposed to genotoxic chemicals. Mutation Research: Genetic Toxicology and Environmental Mutagenesis 445(2): 241-249.

Malarkey, D., R. Herbert, et al. (2010). Report on visit (4/25/2010 - 4/30/2010) and assessment of the pathology procedures performed at the Ramazzini Institute (RI), Bentivoglio, Italy, Malarkey, D; Herbert, R; Nyska, A; Sutphin, ME; Pernika, K.

Malik, A. B., B. C. Lee, et al. (1979). The role of fibrin in the genesis of pulmonary edema after embolization in dogs. Circulation Research 45(1): 120-125.

Maltoni, C., A. Ciliberti, et al. (1982). Experimental contributions in identifying brain potential carcinogens in the petrochemical industry. Annals of the New York Academy of Sciences 381: 216-249.

Maltoni, C., A. Ciliberti, et al. (1988). Long-term carcinogenicity bioassays on acrylonitrile administered by inhalation and by ingestion to Sprague-Dawley rats. Annals of the New York Academy of Sciences 534: 179-202.

Maltoni, C., A. Ciliberti, et al. (1977). Carcinogenicity bioassays on rats of acrylonitrile administered by inhalation and by ingestion. La Medicina del Lavoro 68: 401-411.

Maltoni, C., F. Minardi, et al. (1991). Long-term carcinogenicity bioassays on industrial chemicals and man-made mineral fibers, at the Bentivoglio (BT) laboratories of the Bologna Institute of Oncology: Premises, programs, and results. Toxicology and Industrial Health 7(5-6): 63-94.

Mangir, M. (1991). A test system for the rapid detection of nuclear and cytoplasmic damage in Chinese hamster ovary cells. Chemosphere 23(6): 777-784.

Manufacturing Chemists, A. (1977). Summary of MCA-supported studies on acrylonitrile [with cover letters dated April 11, May 3, and May 20].

Marsh, G. M., M. J. Gula, et al. (1999). Mortality among chemical plant workers exposed to acrylonitrile and other substances. American Journal of Industrial Medicine 36(4): 423-436.

Marsh, G. M., A. O. Youk, et al. (2001). Reevaluation of lung cancer risk in the acrylonitrile cohort study of the National Cancer Institute and the National Institute for Occupational Safety and Health. Scandinavian Journal of Work, Environment and Health 27(1): 5-13.

Marsh, G. M., A. O. Youk, et al. (1998). OCMAP-PLUS: a program for the comprehensive analysis of occupational cohort data.Journal of Occupational and Environmental Medicine 40(4): 351-362.

Martelli, A., A. Allavena, et al. (1992). Comparison of the DNA-damaging activity of 15 carcinogens in primary cultures of human and rat hepatocytes. Proceedings of the Annual Meeting of the American Association for Cancer Research 33: 178.

Martin, C., H. Dutertre-Catella, et al. (2003). Effect of age and photoperiodic conditions on metabolism and oxidative stress related markers at different circadian stages in rat liver and kidney. Life Sciences 73(3): 327-335.

Martin, C. N. and J. Campbell (1985). Tests for the induction of unscheduled DNA repair synthesis in HeLa cells. Progress in Mutation Research 5: 375-379.

Martin, G. M. (1978). Acrylonitrile. 63: 4-13.

Mastrangelo, G., R. Serena, et al. (1993). Mortality from tumours in workers in an acrylic fibre factory. Occupational Medicine 43(3): 155-158.

Matthews, E. J., T. Delbalzo, et al. (1985). Assays for morphological transformation and mutation to ouabain resistance of Balb/c-3T3 cells in culture. Progress in Mutation Research 5: 639-650.

Matthews, E. J., J. W. Spalding, et al. (1993). Transformation of BALB/c-3T3 cells: V. Transformation responses of 168 chemicals compared with mutagenicity in Salmonella and carcinogenicity in rodent bioassays. Environmental Health Perspectives 101(Suppl 2): 347-482.

Mavournin, K. H., D. H. Blakey, et al. (1990). The in-vivo micronucleus assay in mammalian bone marrow and peripheral blood a report of the USA environmental protection agency gene-tox program. Mutation Research 239(1): 29-80.

McCarver, D. G., R. Byun, et al. (1998). A genetic polymorphism in the regulatory sequences of human CYP2E1: Association with increased chlorzoxazone hydroxylation in the presence of obesity and ethanol intake. Toxicology and Applied Pharmacology 152(1): 276-281.

McElroy, N. R., E. D. Thompson, et al. (2003). Classification of diverse organic compounds that induce chromosomal aberrations in Chinese hamster cells. Journal of Chemical Information and Computer Sciences 43(6): 2111-2119.

McGlynn, K. A., E. A. Rosvold, et al. (1995). Susceptibility to hepatocellular carcinoma is associated with genetic variation in the enzymatic detoxification of aflatoxin B1. Proceedings of the National Academy of Sciences 92(6): 2384-2387.

McGrath, J. T. (1983). Incidence of brain neoplasms. Wayne, NJ, American Cyanamid Company.

McLaughlin, M., N. D. Krivanek, et al. (1976). Evaluation of antidotes for acrylonitrile poisoning. Toxicology and Applied Pharmacology 37(1): 133-134.

McLaughlin, M., N. D. Krivanek, et al. (1985). Studies of possible acrylonitrile poisoning antidote. Texas Medicine 81(2): 6.

McMahon, R. E., J. C. Cline, et al. (1979). Assay of 855 test chemicals in ten tester strains using a new modification of the Ames test for bacterial mutagens. Cancer Research 39(3): 682-693.

McNeal, T., W. C. Brumley, et al. (1979). Gas-solid chromatographic-mass spectrometric confirmation of low levels of acrylonitrile after distillation from food-simulating solvents. Journal of AOAC International 62: 41-46.

McOmie, W. A. (1949). Comparative toxicity of methacrylonitrile and acrylonitrile. Journal of Industrial Hygiene and Toxicology 31(2): 113-116.

Meek, M. E., J. R. Bucher, et al. (2003). A framework for human relevance analysis of information on carcinogenic modes of action. Critical Reviews in Toxicology 33(6): 591-653.

Mehrotra, J., V. K. Khanna, et al. (1988). Biochemical and developmental effects in rats following in utero exposure to acrylonitrile: A preliminary report. Industrial Health 26(4): 251-255.

Mehta, C. (1995). Antidotal effect of sodium thiosulfate in mice exposed to acrylonitrile. Research Communications in Molecular Pathology and Pharmacology 87(2): 155-165.

Melnick, R. (2002). Carcinogenicity and mechanistic insights on the behavior of epoxides and epoxide-forming chemicals. Annals of the New York Academy of Sciences 982: 177-189.

Mersch-Sundermann, V., U. Schneider, et al. (1994). SOS induction in Escherichia coli and Salmonella mutagenicity: A comparison using 330 compounds. Mutagenesis 9(3): 205-224.

Mikhaĭlova, A. (1991). [Functional liver status in occupational contact with acrylonitrile]. Problemi na Khigienata 16: 87-92.

Mikhutkina, S. V., A. B. Salmina, et al. (2004). Blebbing of thymocyte plasma membrane and apoptosis are related to impairment of capacitance Ca2+ entry into cells. Bulletin of Experimental Biology and Medicine 137(6): 551-555.

Miller, L. M. and J. E. Villaume (1978). Investigation of selected potential environmental contaminants: acrylonitrile, Miller, LM; Villaume, JE. Philadelphia: 4807-4801.

Milvy, P. (1978). [Reply to letter on acrloynitrile mutagenicity]. Mutation Research: Fundamental and Molecular Mechanisms of Mutagenesis 57(2): 110-112.

Milvy, P. and M. Wolff (1977). Mutagenic studies with acrylonitrile. DNA Repair 48: 271-278.

Minami, M., M. Sato, et al. (1973). Studies on acrylonitrile poisoning (1) On the result of exposure to acrylonitrile vapour. Tokyo Joshi Ika Daigaku Zasshi 43: 849-855.

Mletzko, H. G. and W. Henkel (1978). [Animal experiments on exposure to noise and acrylonitrile under chronobiologic aspects]. Zeitschrift für die gesamte Hygiene und ihre Grenzgebiete 24(7): 515-518.

Mochida, K., M. Gomyoda, et al. (1989). Toxicity of acrylonitrile on human KB cells in culture. Bulletin of Environmental Contamination and Toxicology 42(3): 424-426.

Mohamadin, A. M., E. El-Demerdash, et al. (2005). Acrylonitrile-induced toxicity and oxidative stress in isolated rat colonocytes. Environmental Toxicology and Pharmacology 19(2): 371-377.

Monsanto (1976). Initial submission: 90-day subacute vapor inhalation toxicity study with acrylonitrile in beagle dogs, albino rats, and albino mice with cover letter dated 080792.

Monsanto (1981). Review of the data contained in the two year study of Fischer 344 rats fed acrylonitrile containing drinking water for two years with cover letters. St. Louis, MO.

Monsanto (1992). Initial submission: acute oral toxicity of methacrylonitrile and acrylonitrile in albino rats with cover letter dated 081392.

Morita, T., N. Asano, et al. (1997). Evaluation of the rodent micronucleus assay in the screening of IARC carcinogens (groups 1, 2A and 2B) the summary report of the 6th collaborative study by CSGMT/JEMS MMS. Mutation Research 389(1): 3-122.

Morita, T., N. Asano, et al. (1997). Evaluation of the rodent micronucleus assay in the screening of IARC carcinogens (groups 1, 2A and 2B) the summary report of the 6th collaborative study by CSGMT/JEMS MMS. Collaborative Study of the Micronucleus Group Test. Mammalian Mutagenicity Study Group [Erratum]. Mutation Research 391(3): 259-267.

Morita, T., N. Asano, et al. (1997). Evaluation of the rodent micronucleus assay in the screening of IARC carcinogens (groups 1, 2A and 2B) the summary report of the 6th collaborative study by CSGMT/JEMS MMS. Collaborative Study of the Micronucleus Group Test. Mammalian Mutagenicity Study Group. Mutation Research: Genetic Toxicology and Environmental Mutagenesis 389(1): 3-122.

Moriya, M., C. Ou, et al. (1991). Site-specific mutagenesis using a gapped duplex vector: a study of translesion synthesis past 8-oxodeoxyguanosine in E. coli. Mutation Research 254(3): 281-288.

Mostafa, A. M., A. B. Abdel-Naim, et al. (1999). Renal metabolism of acrylonitrile to cyanide: in vitro studies. Pharmacological Research 40(2): 195-200.

Mueller, G., C. Verkoyen, et al. (1987). Urinary excretion of acrylonitrile and its metabolites in rats. Archives of Toxicology 60: 464-466.

Mulvihill, J., J. P. Cazenave, et al. (1992). Minimodule dialyser for quantitative ex vivo evaluation of membrane haemocompatibility in humans: comparison of acrylonitrile copolymer, cuprophan and polysulphone hollow fibres. Biomaterials 13(8): 527-536.

Murata, M., S. Ohnishi, et al. (2001). Acrylonitrile enhances H2O2-mediated DNA damage via nitrogen-centered radical formation. Chemical Research in Toxicology 14(10): 1421-1427.

Murray, F. J., K. D. Nitschke, et al. (1978). Teratogenic potential of acrylonitrile given to rats by gavage or inhalation. Teratology 17(2): 50A.

Murray, F. J., K. D. Nitschke, et al. (1976). Teratologic evaluation of acrylonitrile monomer given to rats by gavage, Murray, FJ; Nitschke, KD; John, JA; Smith, FA; Quast, JF; Blogg, CD; Schwetz, BA.

Murray, F. J., B. A. Schwetz, et al. (1978). Teratogenicity of acrylonitrile given to rats by gavage or by inhalation. Food and Chemical Toxicology 16: 547-551.

Muto, T., H. Sakurai, et al. (1992). Health profiles of workers exposed to acrylonitrile. Keio Journal of Medicine 41(3): 154-160.

Myhr, B., L. Bowers, et al. (1985). Assays for the induction of gene mutations at the thymidine kinase locus in L5178Y mouse lymphoma cells in culture. Progress in Mutation Research 5: 555-568.

Nakamura, S. I., Y. Oda, et al. (1987). SOS-inducing activity of chemical carcinogens and mutagens in Salmonella typhimurium TA1535/pSK1002: Examination of 151 chemicals. Mutation Research Letters 192(4): 239-246.

Nasralla, S. N., A. I. Ghoneim, et al. (2009). Lactoperoxidase catalyzes in vitro activation of acrylonitrile to cyanide. Toxicology Letters 191(2-3): 347-352.

Natarajan, A. T., C. J. M. Bussmann, et al. (1985). Tests for chromosomal aberrations and sister chromatid exchanges in cultured Chinese hamster ovary (CHO) cells. Progress in Mutation Research 5: 433-437.

Neal, B., D. E. Strother, et al. (2006). Acrylonitrile: Evaluation of reproductive and developmental toxicity. Toxicologist 90(1-S): 252.

Neal, B. H., J. J. Collins, et al. (2009). Weight-of-the-evidence review of acrylonitrile reproductive and developmental toxicity studies. Critical Reviews in Toxicology 39(7): 589-612.

Nemec, M. D., D. T. Kirkpatrick, et al. (2006). The effects of inhaled vapors of acrylonitrile on rat reproduction over two successive generations. Toxicologist 90: 251.

Nemec, M. D., D. T. Kirkpatrick, et al. (2008). Two-generation reproductive toxicity study of inhaled acrylonitrile vapors in Crl:CD(SD) rats. International Journal of Toxicology 27(1): 11-29.

Nenajdenko, V. G., V. M. Muzalevskiy, et al. (2007). Synthesis and Diels-Alder reactions of [alpha]-fluoro- and [alpha]-trifluoromethylacrylonitriles. Journal of Fluorine Chemistry 128(7): 818-826.

Nerland, D. E., F. W. Benz, et al. (1989). Effects of cysteine isomers and derivatives on acute acrylonitrile toxicity. Drug Metabolism Reviews 20: 233-246.

Nerland, D. E., J. Cai, et al. (2003). Selective covalent binding of acrylonitrile to Cys 186 in rat liver carbonic anhydrase III in vivo. Chemical Research in Toxicology 16(5): 583-589.

Nerland, D. E., J. Cai, et al. (2001). Covalent binding of acrylonitrile to specific rat liver glutathione S-transferases in vivo. Chemical Research in Toxicology 14(7): 799-806.

Nersesyan, A. K. (1992). [Sensitivity of cytogenetic tests in vivo in finding genotoxicity of 50 carcinogenic agents]. Eksperimental'naîâ onkologiîâ 14(2): 3-8.

Nerudová, J., I. Gut, et al. (1988). Consequences of acrylonitrile metabolism in rat hepatocytes: Effects on lipid peroxidation and viability of the cells. Environmental Research 46(2): 133-141.

Nesnow, S., M. Argus, et al. (1987). Chemical carcinogens: A review and analysis of the literature of selected chemicals and the establishment of the Gene-Tox Carcinogen Data Base: A report of the U.S. Environmental Protection Agency Gene-Tox program. Mutation Research 185(1-2): 1-195.

Nesterova, E. V., A. D. Durnev, et al. (1999). [Cytogenetic effects of acrylamide, acrylonitrile and their combination with verapamil in vivo]. Byulleten' Eksperimental'noi Biologii i Meditsiny 128(12): 684-689.

Nesterova, E. V., A. D. Durnev, et al. (1999). In vivo cytogenetic effects of acrylamide, acrylonitryl, and their combination with verapamil. Bulletin of Experimental Biology and Medicine 128(12): 1254-1258.

NINCAS (2000). Acrylonitrile, National Industrial Chemicals Notification and Assessment Scheme (NICNAS). 10.

Nilsen, O. G., R. Toftgard, et al. (1980). Effects of acrylonitrile on rat liver cytochrome P-450, benzo(a)pyrene metabolism and serum hormone levels. Toxicology Letters 6(6): 399-404.

Noël, G., M. Lambotte-Vandepaer, et al. (1978). Hepato toxic effects of acrylonitrile in rats. Archives internationales de physiologie et de biochimie 86(4): 951-952.

Normandeau, J., S. Chakrabarti, et al. (1984). Influence Of Simultaneous Exposure To Acrylonitrile And Sytrene On The Toxicity And Metabolism Of Styrene In Rats. Toxicology and Applied Pharmacology 75(2): 346-349.

Norppa, H. (2007). Correspondence to: Emmert, B., Bünger, J., Keuch, K., Müller, M., Emmert, S., Hallier, E., Westphal, G.A., 2002. Mutagenicity of cytochrome P450 2E1 substrates in the Ames test with the metabolic competent S. typhimurium strain YG7108pin3ERb5. Toxicology 228, 66-76. Toxicology 230(2-3): 265-267; author reply 268.

Norppa, H. and F. Tursi, Eds. (1984). Erythrocyte-mediated metabolic activation detected by SCE. New York, NY, Plenum Publishing Corporation.

Norppa, H. and F. Tursi (1984). Erythrocyte-mediated metabolic activation detected by SCE. Basic Life Sciences 29B: 547-559.

NRC (1983). Risk assessment in the federal government: Managing the process. Washington, DC, National Academies Press.

NRC (1994). Science and judgment in risk assessment. Washington, DC, National Academy Press.

NRC (2008). Science and decisions: Advancing risk assessment. Washington, DC, National Academies Press.

NTP (1987). Toxicology and carcinogenesis studies of ethylene oxide (CAS no 75-21-8) in B6C3F1 mice (inhalation studies).

NTP (2001). Toxicology and carcinogenesis studies of acrylonitrile (CAS No. 107-13-1) in B6C3F1 mice (gavage studies). Research Triangle Park, NC: 1-201.

NTP (2011). Acrylonitrile. RTP, NC. 12: 28-30.

Obe, G., A. Hille, et al., Eds. (1985). Tests for the induction of sister-chromatid exchanges in human peripheral lymphocytes in culture. Amsterdam, The Netherlands, Elsevier.

O'Berg, M. T. (1980). Epidemiologic study of workers exposed to acrylonitrile. Journal of Occupational and Environmental Medicine 22: 245-252.

O'Berg, M. T., J. L. Chen, et al. (1985). Epidemiologic study of workers exposed to acrylonitrile: an update. Journal of Occupational and Environmental Medicine 27: 835-840.

Oberly, T. J., W. P. Hoffman, et al. (1996). An evaluation of the twofold rule for assessing a positive response in the L5178Y TK+/- mouse lymphoma assay. Mutation Research 369(3-4): 221-232.

O'Connell, J. F., A. J. Klein-Szanto, et al. (1986). Enhanced malignant progression of mouse skin tumors by the free-radical generator benzoyl peroxide. Cancer Research 46(6): 2863-2865.

Odh (2006). Cancer incidence among residents of Addyston Village, Hamilton County, Ohio 1993–2003. Final Report, Hamilton County General Health District, Cincinnati, OH and the Ohio Department of Health, Columbus, OH.

Oesch, F., A. Zimmer, et al. (1983). Microsomal epoxide hydrolase in different rat strains. Biochemical Pharmacology 32(11): 1783-1788.

Ofengand, J. (1967). The function of pseudouridylic acid in transfer ribonucleic acid: I The specific cyanoethylation of pseudouridine, inosine, and 4-thiouridine by acrylonitrile. Journal of Biological Chemistry 242: 5034-5045.

Ofengand, J., Ed. (1971). Cyanoethylation of nucleotides and tRNA by acrylonitrile. New York, NY, Academic Press, Inc.

Ogawa, Y., Y. Kawamura, et al. (2006). Estrogenic activities of chemicals related to food contact plastics and rubbers tested by the yeast two-hybrid assay. Food Additives and Contaminants 23(4): 422-430.

Omiecinski, C. J., L. Aicher, et al. (1994). Developmental expression of human microsomal epoxide hydrolase. Journal of Pharmacology and Experimental Therapeutics 269(1): 417-423.

Orusev, T., S. Jovanovic, et al. (1973). [A case of acute occupational poisoning with acrylonitrile]. Arhiv za Higijenu Rada i Toksikologiju 23(2): 139-141.

Orushev, T., S. Bayer, et al. (1974). [The occupational risk of acrylonitrile in a workshop for the production of acrylic fibers]. Godišen zbornik na Medicinskiot fakultet vo Skopje 19: 445-449.

Orushev, T. and P. Popovski (1974). [Clinical details of chronic occupational intoxications by acrylonitrile]. Godišen zbornik na Medicinskiot fakultet vo Skopje 19: 187-192.

Osgood, C. (1991). Nitrile-induced aneuploidy in drosophila. Environmental and Molecular Mutagenesis 17(S19): 56-57.

Osgood, C., M. Bloomfield, et al. (1991). Aneuploidy in Drosophila, IV. Inhalation studies on the induction of aneuploidy by nitriles. Mutation Research 259(2): 165-176.

Osterman-Golkar, S. M., J. P. MacNeela, et al. (1994). Monitoring exposure to acrylonitrile using adducts with N-terminal valine in hemoglobin. Carcinogenesis 15(12): 2701-2707.

Ostrovskaya, R. S., Z. G. Podrez, et al. (1976). Health status of workers currently engaged in the production of acrylic acid nitrile. Gigiena Truda i Professional'nye Zabolevaniya(6): 8-12.

Pacifici, G. M., D. Peng, et al. (1983). Epoxide hydrolase and aryl hydrocarbon hydroxylase in human fetal tissues: activities in nuclear and microsomal fractions and in isolated hepatocytes. Pediatric Pharmacology 3(3-4): 189-197.

Pacifici, G. M. and A. Rane (1983). Epoxide hydrolase in human fetal liver. Pharmacology 26(5): 241-248.

Page, N. P. and B. Cook (1990). Assessment of risk from exposure to acrylonitrile: the general approach used by a consultant. Science of the Total Environment 99(3): 307-316; discussion 316-307.

Parent, R. A. and B. C. Casto (1979). Effect of acrylonitrile on primary Syrian golden hamster embryo cells in culture: transformation and DNA fragmentation. Journal of the National Cancer Institute 62: 1025-1029.

Parry, E. M., Ed. (1985). Tests for effects on mitosis and the mitotic spindle in Chinese hamster primary liver cells (CH1-L) in culture. Amsterdam, The Netherlands, Elsevier.

Parry, J. M., P. Arni, et al., Eds. (1985). Summary report on the performance of the yeast and aspergillus assays. Amsterdam, The Netherlands, Elsevier.

Parry, J. M. and F. Eckardt, Eds. (1985). The induction of mitotic aneuploidy, point mutation and mitotic crossing-over in the yeast saccharomyces cerevisiae D61-m and D6. Amsterdam, The Netherlands, Elsevier.

Patankar, S. N., S. D. McAllister, et al. (2010). Conductive ceramic coating on polyacrylonitrile-vinyl chloride (modacrylic) discontinuous fibers via electroless deposition. Journal of Power Sources 195(1): 362-366.

Patel, J. M., E. Ortiz, et al. (1981). Destruction of hepatic cytochrome p-450 by allylic industrial toxicants. Federation Proceedings 40(3 pt 1): 636.

Patterson, R. M., M. I. Bornstein, et al. (1976). Assessment of acrylonitrile as a potential air pollution problem: volume VI, Patterson, RM; Bornstein, MI; Garshick, E.

Paulet, G. and J. Desnos (1961). [Acrylonitrile. Toxicity-mechanism of action-therapeutic uses]. Archives Internationales de Pharmacodynamie et de Therapie 131: 54-83.

Pepelko, W. E. (1984). Experimental respiratory carcinogenesis in small laboratory animals. Environmental Research 33(1): 144-188.

Pérez, H. L., D. Segerbäck, et al. (1999). Adducts of acrylonitrile with hemoglobin in nonsmokers and in participants in a smoking cessation program. Chemical Research in Toxicology 12(10): 869-873.

Perocco, P., G. Pane, et al. (1982). Increase of sister chromatid exchange and unscheduled synthesis of deoxyribonucleic acid by acrylonitrile in human lymphocytes in vitro. Scandinavian Journal of Work, Environment and Health 8(4): 290-293.

Peter, H., K. E. Appel, et al. (1983). Irreversible binding of acrylonitrile to nucleic acids. Xenobiotica 13(1): 19-25.

Peter, H. and R. Berg (1981). Interaction of acrylonitrile with nucleic acids. Naunyn-Schmiedeberg's Archives of Pharmacology 361(Suppl 1): R15.

Peter, H. and H. M. Bolt (1981). Irreversible protein binding of acrylonitrile. Xenobiotica 11(1): 51-56.

Peter, H. and H. M. Bolt (1984). Experimental pharmacokinetics and toxicology of acrylonitrile. Giornale italiano di medicina del lavoro 6(3-4): 77-81.

Peter, H. and A. Buchter (1980). Irreversible binding of acrylonitrile to macromolecules. Naunyn-Schmiedeberg's Archives of Pharmacology 311(Suppl): R22.

Peter, H., M. Schwarz, et al. (1983). A note on synthesis and reactivity towards DNA of glycidonitrile, the epoxide of acrylonitrile. Carcinogenesis 4(2): 235-237.

Pilon, D., A. E. Roberts, et al. (1988). Effect of glutathione depletion on the irreversible association of acrylonitrile with tissue macromolecules after oral administration to rats. Toxicology and Applied Pharmacology 95(2): 311-320.

Pilon, D., A. E. Roberts, et al. (1988). Effect of glutathione depletion on the uptake of acrylonitrile vapors and on its irreversible association with tissue macromolecules. Toxicology and Applied Pharmacology 95: 265-278.

Platanias, L. C. (2003). Map kinase signaling pathways and hematologic malignancies. Blood 101(12): 4667-4679.

Ploemen, J. P., L. W. Wormhoudt, et al. (1997). The use of human in vitro metabolic parameters to explore the risk assessment of hazardous compounds: the case of ethylene dibromide. Toxicology and Applied Pharmacology 143(1): 56-69.

Poirier, M. C. (2004). Chemical-induced DNA damage and human cancer risk. Nature Reviews Cancer 4(8): 630-637.

Poncelet, F., C. de Meester, et al. (1980). Influence of experimental factors on the mutagenicity of vinylic monomers. Archives of Toxicology Supplement 4: 63-66.

Poulin, P. and F. P. Theil (2001). Prediction of pharmicokinetics prior to in vivo studies. 1. mechanism-based prediction of volume of distribution. Journal of Pharmaceutical Sciences 91(1): 129-156.

Pouyatos, B., C. Gearhart, et al. (2007). Oxidative stress pathways in the potentiation of noise-induced hearing loss by acrylonitrile. Hearing Research 224(1-2): 61-74.

Pouyatos, B., C. A. Gearhart, et al. (2005). Acrylonitrile potentiates hearing loss and cochlear damage induced by moderate noise exposure in rats. Toxicology and Applied Pharmacology 204(1): 46-56.

Pouyatos, B., C. A. Gearhart, et al. (2009). Selective vulnerability of the cochlear Basal turn to acrylonitrile and noise. Journal of Toxicology 2009: 908596.

Priston, R. A. J. and B. J. Dean, Eds. (1985). Tests for the induction of chromosome abberations, polyploidy and sister chromatid exchanges in rat liver (RL4) cells. Amsterdam, The Netherlands, Elsevier.

Probst, G. S. and L. E. Hill (1985). Tests for the induction of DNA-repair synthesis in primary cultures of adult rat hepatocytes. Progress in Mutation Research 5: 381-386.

Prokopczyk, B., P. Bertinato, et al. (1988). Cyanoethylation of DNA in vivo by 3-(methylnitrosamino)propionitrile, an Areca-derived carcinogen. Cancer Research 48(23): 6780-6784.

Pu, X., L. M. Kamendulis, et al. (2006). Acrylonitrile induces oxidative DNA damage in rat glial cells. Toxicologist 90(1-S): 194.

Pu, X., L. M. Kamendulis, et al. (2006). Acrylonitrile-induced oxidative DNA damage in rat astrocytes. Environmental and Molecular Mutagenesis 47(8): 631-638.

Pu, X., L. M. Kamendulis, et al. (2009). Acrylonitrile-induced oxidative stress and oxidative DNA damage in male Sprague-Dawley rats. Toxicological Sciences 111(1): 64-71.

Purser, D. A., P. Grimshaw, et al. (1984). Intoxication by cyanide in fires: A study in monkeys using polyacrylonitrile. Archives of Environmental and Occupational Health 39: 394-400.

Quast, J. F. (2002). A two-year toxicity and oncogenicity study with acrylonitrile incorporated in the drinking water of rats. Toxicology Letters 132(3): 153-196.

Quast, J. F., R. M. Enriquez, et al. (1977). Toxicity of drinking water containing acrylonitrile (AN) in rats: Results after 12 months. Washington, DC, Manufacturing Chemists Association. Health and Environmental Research.

Quast, J. F., C. G. Humiston, et al. (1975). A six-month oral toxicity study incorporating acrylonitrile in the drinking water of purebred beagle dogs. Midland, MI, Dow Chemical Co.

Quast, J. F., C. G. Humiston, et al., Eds. (1978). Toxicological findings in rats maintained on water containing acrylonitrile (AN) for 24 months: Results of a 12 month interim sacrifice. New York, NY, Academic Press.

Quast, J. F., D. J. Schwetz, et al. (1980). A two-year toxicity and oncogenicity study with acrylonitrile following inhalation exposure of rats [final report]. Midland, MI, Dow Chemical Co.

Quast, J. F., C. E. Wade, et al. (1980). A two-year toxicity and oncogenicity study with acrylonitrile incorporated in the drinking water of rats. Midland, MI, Dow Chemical Co.

Rabello-Gay, M. N. and A. E. Ahmed (1980). Acrylonitrile: in vivo cytogenetic studies in mice and rats. DNA Repair 79: 249-255.

Radimer, G. F., J. H. Davis, et al. (1974). Fumigant-induced toxic epidermal necrolysis. Archives of Dermatology 110(1): 103-104.

Radovsky, A. and J. F. Mahler, Eds. (1999). Nervous system, Cache River Press.

Rajendran, S. and M. Muthu (1976). Toxicity of acrylonitrile to the adults of five species of stored products insects. Bulletin of Grain Technology 14: 179-181.

Rajendran, S. and M. Muthu (1980). Nutritional And Histopathological Studies On Rats Fed On Energy Food Fumigated With Acrylonitrile. Nutrition Reports International 22(5): 677-685.

Rajendran, S. and M. Muthu (1981). Effect of acrylonitrile on trehalase, phosphorylase and acetylcholinesterase activities in Tribolium castaneum Herbst and Trogoderma granarium Everts. Experientia 37(8): 886-887.

Raluca, M., F. Cédric, et al. (2009). Renewable materials as precursors of linear nitrile-acid derivatives viacross-metathesis of fatty esters and acids with acrylonitrile and fumaronitrile. Green Chemistry 11(2): 152-155.

Recio, L., D. Simpson, et al. (1989). Mutational specificity of 2-cyanoethylene oxide in human lymphoblastoid cells. Environmental and Molecular Mutagenesis 14(Suppl 15): 162.

Recio, L., D. Simpson, et al. (1990). Molecular Analysis of hprt Mutants Induced by 2-Cyanoethylene Oxide in Human Lymphoblastoid Cells. Mutation Research 242(3): 195-208.

Recio, L. and T. R. Skopek (1988). The cellular and molecular analysis of acrylonitrile-induced mutations in human cells. CIIT Activities 8: 1-6.

Recio, L. and T. R. Skopek (1988). Mutagenicity of acrylonitrile and its metabolite 2-cyanoethylene oxide in human lymphoblasts in vitro. Mutation Research 206(2): 297-305.

Reifferscheid, G. and J. Heil (1996). Validation of the SOS/umu test using test results of 486 chemicals and comparison with the Ames test and carcinogenicity data. Mutation Research 369(3-4): 129-145.

Renwick, A. G. and N. R. Lazarus (1998). Human variability and noncancer risk assessment--an analysis of the default uncertainty factor. Regulatory Toxicology and Pharmacology 27: 3-20.

Rice, J. M. (2004). On the application of data on mode of action to carcinogenic risk assessment. Toxicological Sciences 78(2): 175-177.

Rice, J. M. and J. D. Wilbourn (2000). Tumors of the nervous system in carcinogenic hazard identification. Toxicologic Pathology 28(1): 202-214.

Riddell, R. J., R. H. Clothier, et al. (1986). An evaluation of three in vitro cytotoxicity assays. Food and Chemical Toxicology 24(6-7): 469-471.

Rizzi, R., E. Chiesara, et al. (1984). Acrylonitrile: Mutagenicity in yeasts and genotoxicity in HeLa cells. Mutation Research 130: 223.

Robbiano, L., A. Allavena, et al. (1994). Comparison in human and rat hepatocytes of the DNA-damaging activity of five chemicals probably carcinogenic to humans. Toxicology In Vitro 8(1): 131-137.

Roberfroid, M., F. Poncelet, et al. (1978). Acute biotoxic effect of styrene on rat liver: Correlation with enzyme-mediated mutagenicity of benzpyrene and acrylonitrile. Scandinavian Journal of Work, Environment and Health 2(Suppl 2): 163-168.

Roberfroid, M., C. Razzouk, et al., Eds. (1982). Microsomal metabolic activation, mutagenicity and antimutagenicity. Tokyo, Japan, Tokyo University Press.

Roberts, A. E., G. L. Kedderis, et al. (1991). Species comparison of acrylonitrile epoxidation by microsomes from mice, rats and humans: relationship to epoxide concentrations in mouse and rat blood. Carcinogenesis 12(3): 401-404.

Roberts, A. E., S. A. Lacy, et al. (1989). Metabolism of acrylonitrile to 2-cyanoethylene oxide in F-344 rat liver microsomes, lung microsomes, and lung cells. Drug Metabolism and Disposition 17(5): 481-486.

Rogaczewska, T. (1975). Percutaneous absorption of acrylonitrile vapour in animals. Medycyna Pracy 19: 349-353.

Rogaczewska, T. (1975). Wchlanianie par akrylonitrylu przez skore u zwierzat [Absorption of acrylonitrile vapours through the skin in animals]. 26: 459-465.

Rongzhu, L., W. Suhua, et al. (2009). Zinc, copper, iron, and selenium levels in brain and liver of mice exposed to acrylonitrile. Biological Trace Element Research 130(1): 39-47.

Rongzhu, L., W. Suhua, et al. (2009). Effects of acrylonitrile on antioxidant status of different brain regions in rats. Neurochemistry International 55(7): 552-557.

Rongzhu, L., W. Suhua, et al. (2007). Neurobehavioral alterations in rats exposed to acrylonitrile in drinking water. Human and Experimental Toxicology 26(3): 179-184.

Rongzhu, L., C. Ziqiang, et al. (2005). Neurobehavioral effects of occupational exposure to acrylonitrile in Chinese workers. Environmental Toxicology and Pharmacology 19(3): 695-700.

Rossner, P., Jr., B. Binkova, et al. (2002). The effect of acrylonitrile exposure on the expression of p53 and p21WAF1 proteins in the blood plasma of occupationally exposed workers and in human diploid lung fibroblasts. Proceedings of the American Association for Cancer Research Annual Meeting 43: 56.

Rössner, P., B. Binková, et al. (2002). Acrylonitrile exposure: the effect on p53 and p21(WAF1) protein levels in the blood plasma of occupationally exposed workers and in vitro in human diploid lung fibroblasts. Mutation Research 517(1-2): 239-250.

Rothman, K. J. (1994). Cancer occurrence among workers exposed to acrylonitrile. Scandinavian Journal of Work, Environment and Health 20(5): 313-321.

Rouisse, L., S. Chakrabarti, et al. (1986). Acute nephrotoxic potential of acrylonitrile in Fischer-344 rats. Research Communications in Molecular Pathology and Pharmacology 53(3): 347-360.

Rudd, C. J. (1983). L5178Y TK+/- mouse lymphoma cell forward mutation assay of acrylonitrile. Washington, DC, U.S. Government Printing Office.

Rudd, C. J. (1983). L5178Y TK+/- mouse lymphoma forward mutation assay of acrylonitrile, SRI International.

Saczewski, F., A. Stencel, et al. (2008). Structure-activity relationships of novel heteroaryl-acrylonitriles as cytotoxic and antibacterial agents. European Journal of Medicinal Chemistry 43(9): 1847-1857.

Saillenfait, A. M., P. Bonnet, et al. (1993). Relative developmental toxicities of inhaled aliphatic mononitriles in rats. Toxicological Sciences 20: 365-375.

Saillenfait, A. M., I. Langonne, et al. (1992). Embryotoxicity of acrylonitrile in whole-embryo culture. Toxicology In Vitro 6: 253-260.

Saillenfait, A. M., J. P. Payan, et al. (1993). Modulation of acrylonitrile-induced embryotoxicity in vitro by glutathione depletion. Archives of Toxicology 67(3): 164-172.

Saillenfait, A. M. and J. P. Sabaté (2000). Comparative developmental toxicities of aliphatic nitriles: in vivo and in vitro observations. Toxicology and Applied Pharmacology 163(2): 149-163.

Saillenfait, A. M., J. P. Sabaté, et al. (2004). Effects of aliphatic nitriles in micromass cultures of rat embryo limb bud cells. Toxicology In Vitro 18(3): 311-318.

Sakurai, H. (2000). Carcinogenicity and other health effects of acrylonitrile with reference to occupational exposure limit. Industrial Health 38(2): 165-180.

Sakurai, H. and M. Kusumoto (1972). Epidemiological study of health impairment among acrylonitrile workers. Journal of Science of Labour 48: 273–282.

Sakurai, H., M. Onodera, et al. (1978). Health effects of acrylonitrile in acrylic fiber factories. British Journal of Industrial Medicine 35(3): 219-225.

Sakurai, H., M. Onodera, et al. (1978). Health effects of acrylonitrile in acrylic fibre factories. Occupational and Environmental Medicine 35: 219-225.

Salazar, D. E., C. L. Sorge, et al. (1988). Obesity as a risk factor for drug-induced organ injury. VI. Increased hepatic P450 concentration and microsomal ethanol oxidizing activity in the obese overfed rat. Biochemical and Biophysical Research Communications 157(1): 315-320.

Salsburg, D. (1990). Estimating dose response in chronic toxicity studies: 24-month administration of acrylonitrile in drinking water of Fischer 344 rats. Science of the Total Environment 99(3): 289-305.

Sandberg, E. C. and P. Slanina (1980). Distribution of [1-14C]acrylonitrile in rat and monkey. Toxicology Letters 6(3): 187-191.

Sandberg, E. C. and P. Slanina (1980). Distribution of carbon-14-labeled acrylonitrile in rat and monkey. Toxicology Letters 6(3): 187-192.

Sapota, A. (1982). The disposition of [14C]acrylonitrile in rats. Xenobiotica 12(4): 259-264.

Sapota, A. and W. Draminski (1981). The fate of [14C]-acrylonitrile in rats.

Sartorelli, E. (1966). Intossicazione acuta da acrilonitrile [Acute acrylonitrile intoxication]. La Medicina del Lavoro 57: 184-187.

Sasaki, M., K. Sugimura, et al. (1980). Cytogenetic effects of 60 chemicals on cultured human and Chinese hamster cells. Sensyokutai - Kromosomo II-20: 574–584.

Satayavivad, J., A. Thiantanawat, et al. (1990). The effects of acrylonitrile on rat tracheal and cardiac muscarinic responses. European Journal of Pharmacology 183(5): 2016.

Satayavivad, J., A. Thiantanawat, et al. (1998). Alterations of central muscarinic functions during subchronic exposure to acrylonitrile in rats. Research Communications in Biological Psychology and Psychiatry 23(1-2): 29–42.

Sato, M. (1978). [Studies on the toxic effect of acrylonitrile---its metabolism, absorption and excretion]. Nippon Eiseigaku Zasshi (Japanese Journal of Hygiene) 33(3): 497-505.

Sato, M., F. Hirasawa, et al. (1982). Distribution and accumulation of [2,3-14C]acrylonitrile in rat after single injection. Ecotoxicology and Environmental Safety 6(5): 489-494.

Scélo, G., V. Constantinescu, et al. (2004). Occupational exposure to vinyl chloride, acrylonitrile and styrene and lung cancer risk (europe). Cancer Causes and Control 15(5): 445-452.

Schettgen, T., H. C. Broding, et al. (2002). Hemoglobin adducts of ethylene oxide, propylene oxide, acrylonitrile and acrylamide-biomarkers in occupational and environmental medicine. Toxicology Letters 134(1-3): 65-70.

Schettgen, T., J. Müller, et al. (2010). Simultaneous quantification of haemoglobin adducts of ethylene oxide, propylene oxide, acrylonitrile, acrylamide and glycidamide in human blood by isotope-dilution GC/NCI-MS/MS. Journal of Chromatography B, Analytical Technologies in the Biomedical and Life Sciences 878(27): 2467-2473.

Scheufler, H. (1980). [Embryotoxic effectiveness of acrylonitrile in the laboratory mouse]. Zeitschrift für die gesamte Hygiene und ihre Grenzgebiete 26(8): 564-565.

Schlede, E., W. Aberer, et al. (2003). Chemical substances and contact allergy-244 substances ranked according to allergenic potency. Toxicology 193(3): 219-259.

Schulz, M. R., I. Hertz-Picciotto, et al. (2001). Reconciling animal and human data in a cancer risk assessment of acrylonitrile. Scandinavian Journal of Work, Environment and Health 27(1): 14-20.

Schwartz, M. P., D. E. Barlow, et al. (2005). Adsorption of acrylonitrile on diamond and silicon (001)-(2 x 1) surfaces: Effects of dimer structure on reaction pathways and product distributions. Journal of the American Chemical Society 127(23): 8348-8354.

Segal, A., J. J. Solomon, et al., Eds. (1986). Direct alkylation of DNA following in-vitro reaction with acrylonitrile and acrylamide and transformation of c-3h-10t-1-2 and nih-3t3 cells in culture by acetonitrile and acrylamide. New York, NY, Karger.

Segal, A., J. J. Solomon, et al. (1988). Adducts characterized following in-vitro reaction of acrylonitrile oxide ano with calf thymus DNA. Proceedings of the Annual Meeting of the American Association for Cancer Research 29: 96.

Seger, R. and E. G. Krebs (1995). The MAPK signaling cascade. FASEB Journal 9(9): 726-735.

Sehgal, A., C. Osgood, et al. (1990). Aneuploidy in Drosophila. III: Aneuploidogens inhibit in vitro assembly of taxol-purified Drosophila microtubules. Environmental and Molecular Mutagenesis 16(4): 217-224.

Seifried, H. E., R. M. Seifried, et al. (2006). A compilation of two decades of mutagenicity test results with the Ames Salmonella typhimurium and L5178Y mouse lymphoma cell mutation assays. Chemical Research in Toxicology 19(5): 627-644.

Sekihashi, K., A. Yamamoto, et al. (2002). Comparative investigation of multiple organs of mice and rats in the comet assay. Mutation Research 517(1-2): 53-75.

Serkov, A. and M. Radishevskii (2008). Status and prospects for production of carbon fibres based on polyacrylonitrile. Fibre Chemistry 40(1): 24-31.

Sharief, Y., A. M. Brown, et al. (1986). Sister chromatid exchange and chromosome aberration analyses in mice after in vivo exposure to acrylonitrile, styrene, or butadiene monoxide. Environmental and Molecular Mutagenesis 8(3): 439-448.

Sheldon, W. (1994). Tumours of the Harderian gland. IARC Scientific Publications(111): 101-113.

Shell Oil, C. (1984). Induction of chromosome aberrations, polyploidy and sister chromatid exchanges in rat liver cells by chemical carcinogens.

Shell Oil, C. (1984). The induction of mitotic gene conversion in the yeast, Saccharomyces cerevisiae JD1, by ten selected compounds in the IPCS collaborative study on short-term tests.

Shibata, M., K. Inoue, et al. (2004). Simultaneous determination of hydrogen cyanide and volatile aliphatic nitriles by headspace gas chromatography, and its application to an in vivo study of the metabolism of acrylonitrile in the rat. Archives of Toxicology 78(6): 301-305.

Shimizu, M., J. M. Lasker, et al. (1990). Immunohistochemical localization of ethanol-inducible P450IIE1 in the rat alimentary tract. Gastroenterology 99(4): 1044-1053.

Shin, Y. H., H. s. Lee, et al. (2009). Synergetic effect of copper-plating wastewater as a catalyst for the destruction of acrylonitrile wastewater in supercritical water oxidation. Journal of Hazardous Materials 167(1-3): 824-829.

Silver, E. H., G. T. Gallagher, et al. (1982). Potentiation of acrylonitrile induced duodenal ulcer by pre treatment with aroclor 1254 or pheno barbital. Federation Proceedings 41(4): Abstract 3838.

Silver, E. H., D. J. McComb, et al. (1982). Limited hepatotoxic potential of acrylonitrile in rats. Toxicology and Applied Pharmacology 64: 131-139.

Silver, E. H. and S. Szabo (1980). Acute and chronic effect of acrylonitrile on rat liver. Pharmacologist 22(3): 222.

Silver, E. H. and S. Szabo (1982). Possible role of lipid peroxidation in the actions of acrylonitrile on the adrenals, liver and gastrointestinal tract. Research Communications in Chemical Pathology and Pharmacology 36(1): 33-43.

Silver, E. H., S. Szabo, et al. (1987). Time-course studies of the distribution of [1-14C]acrylonitrile in rats after intravenous administration. Journal of Applied Toxicology 7(5): 303-306.

Silverstein, L. G. (1977). Validation of Abcor GASBADGE™ for acrylonitrile and improved desorption efficiency. American Industrial Hygiene Association Journal 38: 412-413.

Singha, A. S., A. Shama, et al. (2008). Pressure induced graft-co-polymerization of acrylonitrile onto Saccharum cilliare fibre and evaluation of some properties of grafted fibre. 31(1): 7-13.

Skvortsov, I. u. (1980). [Change in the blood serum amino acid spectrum in workers engaged in the manufacture of acrylonitrile and the ways for its correction via nutrition]. Voprosy Pitaniya(2): 31-33.

Slaga, T. J., A. J. Klein-Szanto, et al. (1981). Skin tumor-promoting activity of benzoyl peroxide, a widely used free radical-generating compound. Science 213(4511): 1023-1025.

Slikker, W., N. Mei, et al. (2004). N-ethyl-N-nitrosourea (ENU) increased brain mutations in prenatal and neonatal mice but not in the adults. Toxicological Sciences 81(1): 112-120.

Smith, C. A. and D. J. Harrison (1997). Association between polymorphism in gene for microsomal epoxide hydrolase and susceptibility to emphysema. Lancet 350(9078): 630-633.

Smith, C. C., M. R. O'Donovan, et al. (2006). hOGG1 recognizes oxidative damage using the comet assay with greater specificity than FPG or ENDOIII. Mutagenesis 21(3): 185-190.

Smyth, H. F., Jr. and C. P. Carpenter (1948). Further experience with the range finding test in the industrial toxicology laboratory. Journal of Industrial Hygiene and Toxicology 30(1): 63-68.

Sohda, T., M. Shimizu, et al. (1993). Immunohistochemical demonstration of ethanol-inducible P450 2E1 in rat brain. Alcohol and Alcoholism 1B: 69-75.

Solomon, J. J., Ed. (1994). DNA adducts of lactones, sultones, acylating agents and acrylic compounds. Lyon, France, International Agency for Research on Cancer.

Solomon, J. J., I. L. Cote, et al. (1984). In vitro alkylation of calf thymus DNA by acrylonitrile. Isolation of cyanoethyl-adducts of guanine and thymine and carboxyethyl-adducts of adenine and cytosine. Chemico-Biological Interactions 51(2): 167-190.

Solomon, J. J. and A. Segal (1985). Direct alkylation of calf thymus DNA by acrylonitrile. Isolation of cyanoethyl adducts of guanine and thymine and carboxyethyl adducts of adenine and cytosine. Environmental Health Perspectives 62: 227-230.

Solomon, J. J. and A. Segal (1989). DNA Adducts of Propylene Oxide and Acrylonitrile Epoxide: Hydrolytic Deamination of 3-Alkyl-dCyd to 3-Alkyl-dUrd. Environmental Health Perspectives 81: 19-22.

Solomon, J. J., U. S. Singh, et al. (1993). In vitro reactions of 2-cyanoethylene oxide with calf thymus DNA. Chemico-Biological Interactions 88(2-3): 115-135.

Song, B. J., T. Matsunaga, et al. (1987). Stabilization of cytochrome P450j messenger ribonucleic acid in the diabetic rat. Molecular Endocrinology 1(8): 542-547.

Song, B. J., R. L. Veech, et al. (1990). Cytochrome P450IIE1 is elevated in lymphocytes from poorly controlled insulin-dependent diabetics. Journal of Clinical Endocrinology and Metabolism 71(4): 1036-1040.

Speit, G., P. Schütz, et al. (2004). Sensitivity of the FPG protein towards alkylation damage in the comet assay. Toxicology Letters 146(2): 151-158.

Spiegelhalter, D., A. Thomas, et al. (2003). WinBugs version 1.4 user manual. Cambridge, UK, MRC Biostatistics Unit.

Sponsiello-Wang, Z., E. Sanders, et al. (2006). Occupational acrylonitrile exposure and lung cancer: a meta-analysis. Journal of environmental Science and Health, Part C: Environmental Carcinogenesis & Ecotoxicology Reviews 24(2): 257-284.

Sram, R. and M. Ondrej (1968). Mutagenic activity of some drugs and pesticides. Drosophila Information Service 43: 164.

Sram, R. J., O. Beskid, et al. (2004). Cytogenetic analysis using fluorescence in situ hybridization (FISH) to evaluate occupational exposure to carcinogens. Toxicology Letters 149: 335-344.

Sram, R. J., P. Rössner, et al. (2007). Chromosomal aberration frequencies determined by conventional methods: Parallel increases over time in the region of a petrochemical industry and throughout the Czech Republic. Chemico-Biological Interactions 166(1-3): 239-244.

Starr, T. B., C. Gause, et al. (2004). A risk assessment for occupational acrylonitrile exposure using epidemiology data. Risk Analysis 24(3): 587-601.

Stefaneanu, L. and K. Kovacs (1991). Effects of drugs on pituitary fine structure in laboratory animals. Journal of Electron Microscopy 19(1): 80-89.

Stemmer, P. M., D. Sommer, et al. (2001). Acrylonitrile inhibits calcineurin phosphatase. Journal of Toxicology - Clinical Toxicology 39(5): 496.

Stephens, E. A., J. A. Taylor, et al. (1994). Ethnic variation in the CYP2E1 gene: Polymorphism analysis of 695 African-Americans, European-Americans and Taiwanese. Pharmacogenetics 4(4): 185-192.

Stewart, P. A., P. S. Lees, et al. (2003). Evaluation of three retrospective exposure assessment methods. Annals of Occupational Hygiene 47(5): 399-411.

Stewart, P. A., P. S. J. Lees, et al. (1998). An evaluation of error of acrylonitrile measurements in an epidemiologic study. Applied Occupational and Environmental Hygiene 13(7): 546-553.

Stewart, P. A., D. Zaebst, et al. (1998). Exposure assessment for a study of workers exposed to acrylonitrile. Scandinavian Journal of Work, Environment and Health 24(Suppl 2): 42-53.

Stiteler, W. M., L. A. Knauf, et al. (1993). A statistical test of compatibility of data sets to a common dose-response model. Regulatory Toxicology and Pharmacology 18(3): 392-402.

Stoiber, T., E. Unger, et al. (2008). Hydrophobic interaction of organic chemicals with microtubule assembly in vitro. Archives of Toxicology 82(9): 601-606.

Stricker, E. M., M. L. Hoffmann, et al. (2003). Increased water intake by rats maintained on high NaCl diet: analysis of ingestive behavior. Physiology and Behavior 79(4-5): 621-631.

Styles, J. A., P. Clay, et al. (1985). Assays for the induction of gene mutations at the thymidine kinase and the Na+/K+ ATPase loci in two different mouse lymphoma cell lines in culture. Progress in Mutation Research 5: 587-596.

Subramanian, U. and A. E. Ahmed (1995). Intestinal toxicity of acrylonitrile: in vitro metabolism by intestinal cytochrome P450 2E1. Toxicology and Applied Pharmacology 135(1): 1-8.

Suh, J. H., S. V. Shenvi, et al. (2004). Decline in transcriptional activity of Nrf2 causes age-related loss of glutathione synthesis, which is reversible with lipoic acid. Proceedings of the National Academy of Sciences 101(10): 3381-3386.

Suhua, W., L. Rongzhu, et al. (2010). Induction or inhibition of cytochrome P450 2E1 modifies the acute toxicity of acrylonitrile in rats: biochemical evidence. Archives of Toxicology 84(6): 461-469.

Summer S, C. J. and T. R. Fennell (1991). The assignment and quantitation of urinary metabolites of acrylonitrile in the rat and mouse using NMR spectroscopy. Proceedings of the American Association for Cancer Research Annual Meeting 32(0): 123.

Summer, W. and E. Haponik (1981). Inhalation of irritant gases. Clinics in Chest Medicine 2(2): 273-287.

Sumner, S. C., T. R. Fennell, et al. (1999). Role of cytochrome P450 2E1 in the metabolism of acrylamide and acrylonitrile in mice. Chemical Research in Toxicology 12(11): 1110-1116.

Sumner, S. C., L. Selvaraj, et al. (1997). Urinary metabolites from F344 rats and B6C3F1 mice coadministered acrylamide and acrylonitrile for 1 or 5 days. Chemical Research in Toxicology 10(10): 1152-1160.

Sun, T. Q., Y. P. Hou, et al. (2009). Effect of atmospheres on stabilization of polyacrylonitrile fibers. Journal of Macromolecular Science: Part A - Pure and Applied Chemistry 46(8): 807-815.

Suta, B. E. (1979). Assessment of human exposures to atmospheric acrylonitrile: final report, Suta, BE.

Swaen, G. M., L. J. Bloemen, et al. (2004). Mortality update of workers exposed to acrylonitrile in The Netherlands. Journal of Occupational and Environmental Medicine 46(7): 691-698.

Swaen, G. M., L. J. Bloemen, et al. (1998). Mortality update of workers exposed to acrylonitrile in The Netherlands. Scandinavian Journal of Work, Environment and Health 24(Suppl 2): 10-16.

Swaen, G. M., L. J. Bloemen, et al. (1992). Mortality of workers exposed to acrylonitrile. Journal of Occupational Medicine 34(8): 801-809.

Sweeney, L. M., M. L. Gargas, et al. (2003). Physiologically based pharmacokinetic model parameter estimation and sensitivity and variability analyses for acrylonitrile disposition in humans. Toxicological Sciences 71(1): 27-40.

Swenberg, J. A., Ed. (1981). Utilization of the alkaline elution assay as a short-term test for chemical carcinogens. New York, NY, Springer-Verlag.

Swenberg, J. A., A. M. Koch, et al. Formation and accumulation of ethenoguanine in the target tissue for acrylonitrile carcinogenesis. Journal of Cellular Biochemistry 38(Suppl. 12A): 353.

Symons, J. M., K. H. Kreckmann, et al. (2008). Mortality among workers exposed to acrylonitrile in fiber production: an update. Journal of Occupational and Environmental Medicine 50(5): 550-560.

Szabo, S., K. A. Bailey, et al. (1977). Acrylonitrile and tissue glutathione: differential effect of acute and chronic interactions. Biochemical and Biophysical Research Communications 79(1): 32-37.

Szabo, S., P. J. Boor, et al. (1977). Pathogenesis of acrylonitrile poisoning: role of glutathione and coagulation changes. Proceedings of the International Congress Toxicol: 476-477.

Szabo, S. and G. T. Gallagher (1984). Effects of alkyl nitriles on the gastrointestinal tract. Survey and Synthesis of Pathology Research 3(1): 11-30.

Szabo, S., G. T. Gallagher, et al. (1984). Subacute and chronic action of acrylonitrile on adrenals and gastrointestinal tract: Biochemical, functional and ultrastructural studies in the rat. Journal of Applied Toxicology 4(3): 131-140.

Szabo, S., I. Hüttner, et al. (1980). Pathogenesis of experimental adrenal hemorrhagic necrosis (apoplexy): Ultrastructural, biochemical, neuropharmacologic, and blood coagulation studies with acrylonitrile in the rat. Laboratory Investigation 42(5): 533-546.

Szabo, S., D. J. McComb, et al. (1981). Adrenocortical hemorrhagic necrosis: the role of catecholamines and retrograde medullary-cell embolism. Archives of Pathology and Laboratory Medicine 105(10): 536-539.

Szabo, S., E. S. Reynolds, et al. (1976). Effect of chronic acrylonitrile ingestion on rat adrenal.

Szabo, S., E. S. Reynolds, et al. (1976). Animal model of human disease. Waterhouse-Friderichsen syndrome. Animal model: Acrylonitrile-induced adrenal apoplexy. The American Journal of Pathology 82(3): 653-656.

Szabo, S. and H. Selye (1971). Adrenal apoplexy and necrosis produced by acrylonitrile. Experimental and Clinical Endocrinology and Diabetes 57: 405-408.

Szabo, S. and H. Selye (1972). Effect of phenobarbital and steroids on the adrenal apoplexy produced by acrylonitrile in rats. 6(3): 141-146.

Szabo, S., E. H. Silver, et al. (1983). Potentiation of duodenal ulcerogenic action of acrylonitrile by PCB or phenobarbital in the rat. Toxicology and Applied Pharmacology 71(3): 451-454.

Szalay, K. S., D. Szabo, et al. (1987). Lack of direct effect of acrylonitrile on corticoid production of isolated zona fasciculata and zona glomerulosa cells. In Vitro Toxicology 1(3): 163-169.

Takano, R., N. Murayama, et al. (2010). Blood concentrations of acrylonitrile in humans after oral administration extrapolated from in vivo rat pharmacokinetics, in vitro human metabolism, and physiologically based pharmacokinetic modeling. Regulatory Toxicology and Pharmacology 58(2): 252-258.

Tanaka, E. (1998). In vivo age-related changes in hepatic drug-oxidizing capacity in humans. Clinical Pharmacology and Therapeutics 23(4): 247-255.

Tandon, R., D. K. Saxena, et al. (1988). Testicular effects of acrylonitrile in mice. Toxicology Letters 42(1): 55-63.

Tang, J., W. Fan, et al. (2001). [Effects of acrylonitrile exposure on lipid peroxidation and activities of anti oxidative enzymes of occupational population].Gongye Weisheng yu Zhiyebin / Industrial health and occupational diseases 27(1): 11-13.

Tanii, H. and K. Hashimoto (1986). Influence of ethanol on the in vivo and in vitro metabolism of nitriles in mice. Archives of Toxicology 58(3): 171-176.

Tarasov, V. A., S. K. Abilev, et al. (2003). Efficiency of batteries of tests for estimating potential mutagenicity of chemicals. Russian Journal of Genetics 39(10): 1191-1200.

Tardif, R., D. Talbot, et al. (1987). Urinary excretion of mercapturic acids and thiocyanate in rats exposed to acrylonitrile: influence of dose and route of administration. Toxicology Letters 39: 255-261.

Tardif, R., D. Talbot, et al. (1988). Urinary excretion of mercapturic acids and thiocyanate in rats exposed to acrylonitrile: influence of dose and route of administration. Toxicology Letters 41: 87.

Tarskikh, M. M. (2006). Damage to erythrocyte membranes as the mechanism for acrylate toxicity. Bulletin of Experimental Biology and Medicine 142(6): 690-692.

Tarskikh, M. M. (2009). [Experimental investigation of combined action and hematotoxicity of anti-tumor antibiotic doxorubicin and industrial monomer acrylonitrile]. Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya(2): 27-30.

Tarskikh, M. M. and L. G. Klimatskaia (2007). [Mental and neurological disorders in workers employed in acrylonitrile production]. Zhurnal Nevrologii i Psikhiatrii imeni SS Korsakova 107(1): 56-57.

Tarskikh, M. M. and L. G. Klimatskaia (2008). [Nervous system disorders in workers engaged into acrylonitrile production]. Meditsina Truda i Promyshlennaya Ekologiya(10): 12-15.

Tarvainen, K. (1995). Analysis of patients with allergic patch test reactions to a plastics and glues series. Contact Dermatitis 32(6): 346-351.

Tavares, R., H. Borba, et al. (1996). Monitoring of exposure to acrylonitrile by determination of N-(2-cyanoethyl)valine at the N-terminal position of haemoglobin. Carcinogenesis 17(12): 2655-2660.

Teo, S. K., G. L. Kedderis, et al. (1994). Determination of tissue partition coefficients for volatile tissue-reactive chemicals: acrylonitrile and its metabolite 2-cyanoethylene oxide. Toxicology and Applied Pharmacology 128(1): 92-96.

Teruel, M. A., M. B. Blanco, et al. (2007). Atmospheric fate of acrylic acid and acrylonitrile: Rate constants with Cl atoms and OH radicals in the gas phase. Atmospheric Environment 41(27): 5769-5777.

Therneau, T. M. and P. M. Grambsch (2000). Modeling survival data: extending the Cox model, Springer-Verlag.

Thier, R., H. Balkenhol, et al. (2001). Influence of polymorphisms of the human glutathione transferases and cytochrome P450 2E1 enzyme on the metabolism and toxicity of ethylene oxide and acrylonitrile. DNA Repair 482(1-2): 41-46.

Thier, R., H. Balkenhol, et al. (2000). Haemaglobin adduct levels in acrylonitrile workers depend on hGSTP1 polymorphism. Toxicology Letters 116(1): 99.

Thier, R., J. Lewalter, et al. (2000). Species differences in acrylonitrile metabolism and toxicity between experimental animals and humans based on observations in human accidental poisonings. Archives of Toxicology 74(4-5): 184-189.

Thier, R., J. Lewalter, et al. (1999). Haemoglobin adducts of acrylonitrile and ethylene oxide in acrylonitrile workers, dependent on polymorphisms of the glutathione transferases GSTT1 and GSTM1. Archives of Toxicology 73(4-5): 197-202.

Thier, R., J. Lewalter, et al. (2002). Possible impact of human CYP2E1 polymorphisms on the metabolism of acrylonitrile. Toxicology Letters 128(1-3): 249-255.

Thiess, A. M. and I. Fleig (1978). Analysis of chromosomes of workers exposed to acrylonitrile. Archives of Toxicology 41: 149-152.

Thiess, A. M., R. Frentzel-Beyme, et al. (1980). Mortality study in chemical personnel of various industries exposed to acrylonitrile. Zentralblatt für Arbeitsmedizin, Arbeitsschutz, Prophylaxe und Ergonomie 30: 259–267.

Thomas, T. L., Ed. (1994). Primary brain tumors associated with chemical exposure. Baltimore, MD, Williams and Wilkins.

Thomas, T. L., T. H. Fontham E, et al. (1986). Occupational risk factors for brain tumors a case-referent death-certificate analysis. Scandinavian Journal of Work, Environment and Health 12(2): 121-127.

Thomas, T. L., P. A. Stewart, et al. (1987). Risk of astrocytic brain tumors associated with occupational chemical exposures: A case-referent study. Scandinavian Journal of Work, Environment and Health 13(5): 417-423.

Thomas, T. L. and R. J. Waxweiler (1986). Brain tumors and occupational risk factors a review. Scandinavian Journal of Work, Environment and Health 12(1): 1-15.

Tian, L., Q. Cai, et al. (1998). Alterations of antioxidant enzymes and oxidative damage to macromolecules in different organs of rats during aging. Free Radical Biology and Medicine 29: 1477-1484.

Tompa, A., J. Major, et al. (1992). Occupational acrylonitrile ACN and dimethylformamide DMF exposure inhibits blastogenesis of peripheral blood lymphocytes. Cell Proliferation 25(5): 515.

Tsirelnikov, N. I. (1993). Role of the placenta in altering the effect of toxicants on the fetus. Reproductive Toxicology 7(5): 523.

Tucek, M., Tenglerov, et al. (2002). Effect of acrylate chemistry on human health. International Archives of Occupational and Environmental Health 75(Suppl 1): 67-72.

Tucker, J. D., A. Auletta, et al. (1993). Sister-chromatid exchange: second report of the Gene-Tox program. DNA Repair 297(2): 101-180.

Tullar, P. E. (1947). Final report on the pharmacology and toxicology of acrylonitrile and acrylon, Washington, Palusowski Memorial Research Laboratory - George Washington University.

Turner, M. J., Jr., S. D. Held, et al. (1989). Proceedings of the 37th ASMS conference on mass spectrometry and allied topics
Identification of mercapturic acid metabolites of acrylonitrile by tandem mass spectrometry. East Lansing, MI, American Society for Mass Spectrometry.

U.S. EPA. (1983). Health assessment document for acrylonitrile. Research Triangle Park, NC.

U.S. EPA. (1986). Guidelines for mutagenicity risk assessment. Washington, DC.

U.S. EPA. (1988). Recommendations for and documentation of biological values for use in risk assessment. Cincinnati, OH.

U.S. EPA. (1991). Guidelines for developmental toxicity risk assessment. Washington, DC, U.S. Environmental Protection Agency, Risk Assessment Forum.

U.S. EPA. (1994). Interim policy for particle size and limit concentration issues in inhalation toxicity studies. Washington, DC.

U.S. EPA. (1994). Methods for derivation of inhalation reference concentrations and application of inhalation dosimetry. Research Triangle Park, NC.

U.S. EPA. (1995). The use of the benchmark dose approach in health risk assessment. Washington, DC.

U.S. EPA. (1996). Guidelines for reproductive toxicity risk assessment. Washington, DC.

U.S. EPA. (1998). Guidelines for neurotoxicity risk assessment. Washington, DC.

U.S, EPA. (1998). Toxicological review of methyl methacrylate. Integrated Risk Information System (IRIS).

U.S. EPA. (2000). Bechmark dose technical support document: External review draft. Washington, DC.

U.S. EPA. (2000). Science policy council handbook: Risk characterization. Washington, D.C.

U.S. EPA. (2002). A review of the reference dose and reference concentration processes. Washington, DC.

U.S. EPA. (2005). Guidelines for carcinogen risk assessment. Washington, DC.

U.S. EPA. (2005). Supplemental guidance for assessing susceptibility from early-life exposure to carcinogens. Washington, DC.

U.S. EPA. (2006). A framework for assessing health risk of environmental exposures to children. Washington, DC.

U.S. EPA. (2006). Peer review handbook (3rd edition). Washington, DC.

U.S. EPA. (2009). Acute exposure guideline levels (AEGLs) for acrylonitrile (CAS reg. no. 107-13-1) interim.

Umeda, M., K. Noda, et al. (1985). Assays for inhibition of metabolic cooperation by a microassay method. Progress in Mutation Research 5: 619-622.

Uziel, M., N. B. Munro, et al. (1989). DNA adduct formation by twelve chemicals with populations potentially suitable for molecular epidemiological studies, Uziel, M; Munro, NB; Katz, DS; Vo-Dinh, T; Zeighami, EA.

Vainio, H. and H. Makinen (1977). Styrene and acrylonitrile induced depression of hepatic nonprotein sulfhydryl content in various rodent species. Research Communications in Chemical Pathology and Pharmacology 17(1): 115-124.

Vainio, H., M. D. Waters, et al. (1985). Mutagenicity of selected organic solvents. Scandinavian Journal of Work, Environment and Health 11(Suppl 1): 75-82.

Van De Zande, L., R. Kunnen, et al. (1986). Effect on hepatic ornithine decarboxylase of some food additives and synthetic elastomers. Food Additives and Contaminants 3(1): 57-62.

Van Heijst, A. N. (1986). [N-Acetylcysteine in paracetamol and acrylonitrile intoxications]. Pharmaceutisch Weekblad 121(Jul 18, 1986): 663-668.

Vasileva, N., T. Godjevargova, et al. (2009). Application of immobilized horseradish peroxidase onto modified acrylonitrile copolymer membrane in removing of phenol from water. International Journal of Biological Macromolecules 44(2): 190-194.

Venitt, S. (1978). Letter on acrylonitrile mutagenicity. Mutation Research 57: 107-109.

Venitt, S. (1989). Letter on acrylonitrile mutagenicity. Mutation Research 57: 107-109.

Venitt, S. and C. T. Bushell (1977). Mutagenicity of acrylonitrile in bacteria. Mutation Research 46(3): 241.

Venitt, S., C. T. Bushell, et al. (1977). Mutagenicity of acrylonitrile (cyanoethylene) in Escherichia coli. DNA Repair 45: 283-288.

Vernon, P., L. Dulak, et al. (1990). Acute toxicologic evaluation of acrylonitrile. Journal of the American College of Toxicology 1: 114-115.

Vernon, P. A., L. H. Dulak, et al., Eds. (1990). Acute toxicologic evaluation of acrylonitrile. Princeton, NJ, Princeton Scientific Publishing Co., Inc.

Vial, T. and J. Descotes (1994). Contact sensitization assays in guinea-pigs: Are they predictive of the potential for systemic allergic reactions? Toxicology 93(1): 63-75.

Vieira, I., M. Sonnier, et al. (1996). Developmental expression of CYP2E1 in the human liver: Hypermethylation control of gene expression during the neonatal period. European Journal of Biochemistry 238(2): 476-483.

Vilim, V., J. Nerudova, et al. (1988). Acrylonitrile Potentiation of Oxygen Toxicity in Rats. Biomedica Biochimica Acta 47(2): 205-209.

Vissarionova, V. I. a., G. I. Bondarev, et al. (1978). [Possibility of using cysteine in preventing acrylic acid nitrile poisoning]. Gigiena i Sanitariia(12): 92-93.

Vissarionova, V. I. a., G. I. Bondarev, et al. (1979). [Effect on the body of rats of rations varying in protein content in acrylomitrile poisoning]. Voprosy Pitaniya(1): 36-40.

Vissarionova, V. I. a., G. I. Bondarev, et al. (1978). [Specifically directed, protective action of certain substances in acrylic acid nitrile poisoning]. Voprosy Pitaniya(6): 3-7.

Vodicka, P., I. Gut, et al. (1990). Effects of inhaled acrylic acid derivatives in rats. Toxicology 65(1-2): 209-221.

Vodicka, P., I. Gut, et al. (1985). Účinky metylakrylátu, etylakrylátu, 1-butylakrylátu, 2-etylhexylakrylátu, akrylonitrilu a akrylové kyseliny u krys: vylučování tioeteru a ovlivnění glykemie. Pracovní Lékarství 37(6): 209-215.

Vodicka, P., I. Gut, et al. (1986). Ucinky vybranych derivatu akrylove kyseliny po sestihodinove inhalacni expozici u krys: vylucovani tioeteru a ovlivneni glykemie. Pracovní Lékarství 38(9): 407-413.

Vogel, E. W. (1985). The Drosophila somatic recombination and mutation assay (SRM) using the white-coral somatic eye color system. Progress in Mutation Research 5: 313-317.

Vogel, E. W., U. Graf, et al. (1999). Use of short- and medium-term tests for carcinogens and data on genetic effects in carcinogenic hazard evaluation
The results of assays in Drosophila as indicators of exposure to carcinogens. Lyon, France, International Agency for Research on Cancer.

Vogel, E. W. and M. J. Nivard (1993). Performance of 181 chemicals in a Drosophila assay predominantly monitoring interchromosomal mitotic recombination. Mutagenesis 8(1): 57-81.

Vogel, R. A. and W. M. Kirkendall (1984). Acrylonitrile (vinyl cyanide) poisoning: a case report. Texas Medicine 80: 48-51.

Von Halle, E. S., Ed. (1985). A tabular review of the published mutagenicity literature for IPCS study compounds. Amsterdam, The Netherlands, Elsevier Science Publishers.

Wakata, A., Y. Miyamae, et al. (1998). Evaluation of the rat micronucleus test with bone marrow and peripheral blood: Summary of the 9th collaborative study by CSGMT/JEMS-MMS. Environmental and Molecular Mutagenesis 32(1): 84-100.

Wakata, A., Y. Miyamae, et al. (1998). Evaluation of the rat micronucleus test with bone marrow and peripheral blood: Summary of the 9th collaborative study by CSGMT/JEMScntdotMMS. Environmental and Molecular Mutagenesis 32(1): 84-100.

Wakata, A., Y. Miyamae, et al. (1998). Evaluation of the rat micronucleus test with bone marrow and peripheral blood: Summary of the 9th collaborative study by CSGMT MMS. Environmental and Molecular Mutagenesis 32(1): 84-100.

Walker, V. E., T. R. Fennell, et al. (1990). Macromolecular adducts of ethylene oxide: a literature review and a time-course study on the formation of 7-(2-hydroxyethyl)guanine following exposures of rats by inhalation. DNA Repair 233(1-2): 151-164.

Walton-Shirley, M. (1985). A study of skin cancer among chemical worker exposure to plastic vinyl chloride and synthetic rubber acrylonitrile monomers. Clinical Research 33(2 Part 1): 460A.

Wang, C. C. and C. M. Lee (2007). Isolation of the [var epsilon]-caprolactam denitrifying bacteria from a wastewater treatment system manufactured with acrylonitrile-butadiene-styrene resin. Journal of Hazardous Materials 145(1-2): 136-141.

Wang, C. C. and C. M. Lee (2007). Isolation of the epsilon-caprolactam denitrifying bacteria from a wastewater treatment system manufactured with acrylonitrile-butadiene-styrene resin. Journal of Hazardous Materials 145(1-2): 136-141.

Wang, H., X. Chai, et al. (2002). [Effect of acrylonitrile on workers' liver function]. Xihua Daxue Xuebao, Ziran Kexueban 3(2): 130-132.

Wang, H., B. Chanas, et al. (2002). Cytochrome P450 2E1 (CYP2E1) is essential for acrylonitrile metabolism to cyanide: comparative studies using CYP2E1-null and wild-type mice. Drug Metabolism and Disposition 30(8): 911-917.

Wang, N., S. x. Rong, et al. (2005). [Uterotrophic assay of acrylonitrile in rats]. Huan jing yu zhi ye yi xue = Journal of environmental & occupational medicine 22(1): 33-34, 38.

Wang, N., S. x. Rong, et al. (2005). [Uterotrophic and Hershberber assays for acrylonitrile in rats]. Huan jing yu zhi ye yi xue = Journal of environmental & occupational medicine 22(5): 408-412.

Wang, S., Y. Huang, et al. (2011). [Effects of s-adenosyl-l-methionine pretreatment on acute toxicity of acrylonitrile in mice]. Jiangsu Daxue Xuebao (Yixue Ban) 21(4): 277-280.

Wang, S., R. Lu, et al. (2004). [Effects of acrylonitrile (AN) on acetylcholinesterase (AChE) activity in rat brain]. Weisheng Dulixue Zazhi 18(1): 25-26.

Wang, S. h., R. z. Lu, et al. (2006). [Subacute effect of acrylonitrile on trace elements in blood and liver of mice]. Huan jing yu zhi ye yi xue = Journal of environmental & occupational medicine 23(5): 419-420.

Wang, T., H. Shang, et al. (2003). [Effect of acrylonitrile exposure on reproductive outcomes of fathers and parents]. Gongye Weisheng yu Zhiyebin / Industrial health and occupational diseases 29(5): 278-280.

Wang, W., Y. Bai, et al. (2005). [Serum nitric oxide levels and nitric oxide synthetase activity of workers exposed to acrylonitrile]. Fudan Xuebao (Yixue Ban) 32(1): 36-39.

Wang, W., R. Lu, et al. (2001). [Effects of occupational exposure to low level acrylonitrile on health status of workers]. Gongye Weisheng yu Zhiyebin / Industrial health and occupational diseases 27(4): 223-225.

Wang, W., Z. Xia, et al. (2000). Investigation of prevalence rate in workers exposed to acrylonitrile, Wang, W; Xia, Z; Jin, F; et al.

Wang, Z., W. Xiao, et al. (2002). [Toxicity of acrylonitrile to peripheral blood of rats]. Zhongguo Gongye Yixue Zazhi 15(4): 196-198.

Wang, Z., W. Xiao, et al. (2003). [Effect of acrylonitrile on bone marrow feature and IL-2, G-CSF and EPO levels in serum of rats]. Zhongguo Gongye Yixue Zazhi 16(5): 294-296.

Ward, C. E. and T. B. Starr (1993). Comparison of cancer risks projected from animal bioassays to epidemiologic studies of acrylonitrile-exposed workers. Regulatory Toxicology and Pharmacology 18(2): 214-232.

Ward, J. M. and J. M. Rice (1982). Naturally occurring and chemically induced brain tumors of rats and mice in carcinogenesis bioassays. Annals of the New York Academy of Sciences 381: 304-319.

Watcharasit, P., S. Suntararuks, et al. (2010). Acrylonitrile induced apoptosis via oxidative stress in neuroblastoma SH-SY5Y cell. Journal of Applied Toxicology 30(7): 649-655.

Wauthier, V., R. K. Verbeeck, et al. (2004). Age-related changes in the protein and mRNA levels of CYP2E1 and CYP3A isoforms as well as in their hepatic activities in Wistar rats. What role for oxidative stress? Archives of Toxicology 78: 131-138.

Waxweiler, R. J., A. H. Smith, et al. (1981). Excess lung cancer risk in a synthetic chemicals plant. Environmental Health Perspectives 41: 159-165.

Waxweiler, R. J., W. Stringer, et al. (1976). Neoplastic risk among workers exposed to vinyl chloride. Annals of the New York Academy of Sciences 271: 40-48.

Werner, J. B. and J. T. Carter (1981). Mortality of UK acrylonitrile polymerization workers. British Journal of Industrial Medicine 38(3): 247-253.

Werner, J. B. and J. T. Carter (1981). Mortality of United Kingdom acrylonitrile polymerisation workers. Occupational and Environmental Medicine 38: 247-253.

Wester, P. W. and R. Kroes (1988). Forestomach carcinogens: pathology and relevance to man. Toxicologic Pathology 16: 165-171.

Whittaker, S. G., F. K. Zimmerman, et al. (1990). Detection of induced mitotic chromosome loss in Saccharomyces cerevisiae--an interlaboratory assessment of 12 chemicals. Mutation Research 241(3): 225-242.

WHO (2002). Acrylonitrile. Concise international chemical assessment document. Geneva, Switzerland.

Whysner, J., P. M. Ross, et al. (1998). Evaluation of possible genotoxic mechanisms for acrylonitrile tumorigenicity. Regulatory Toxicology and Pharmacology 27(3): 217-239.

Whysner, J., R. E. Steward, et al. (1998). Formation of 8-oxodeoxyguanosine in brain DNA of rats exposed to acrylonitrile. Archives of Toxicology 72(7): 429-438.

Willhite, C. C., V. H. Ferm, et al. (1981). Teratogenic effects of aliphatic nitriles. Teratology 23(3): 317-323.

Willhite, C. C., M. Marin-Padilla, et al. (1981). Morphogenesis of axial skeletal (dysraphic) disorders induced by aliphatic nitriles. Teratology 23(3): 325-333.

Willhite, C. C. and R. P. Smith (1981). The role of cyanide liberation in the acute toxicity of aliphatic nitriles. Toxicology and Applied Pharmacology 59(3): 589-602.

Williams, G. M., H. Mori, et al. (1989). Structure-activity relationships in the rat hepatocyte DNA-repair test for 300 chemicals. Mutation Research 221(3): 263-286.

Williams, G. M., C. Tong, et al. (1985). Tests with the rat hepatocyte primary culture/DNA-repair test. Progress in Mutation Research 5: 341-345.

Wilson, R. H. (1944). Health hazards encountered in the manufacture of synthetic rubber. JAMA: Journal of the American Medical Association 124: 701-703.

Wilson, R. H., G. V. Hough, et al. (1948). Medical problems encountered in the manufacture of American-made rubber. American Journal of Industrial Medicine 17(6): 199-207.

Wolff, M. S. (1979). Acrylonitrile pharmacodynamics and mutagenesis. Cincinnati, OH, National Institute for Occupational Safety and Health.

Wong, D., J. Allen, et al. (2006). Review of acrylonitrile mutagenicity. Environmental and Molecular Mutagenesis 47(6): 443.

Wong, J. L., D. Z. Liu, et al. (2004). Lysine conjugate of acrylonitrile as antigenic sites in hemoglobin adducts. American Peptide Society 63(2): 171-174.

Wood, M. L., M. Dizdaroglu, et al. (1990). Mechanistic studies of ionizing radiation and oxidative mutagenesis: genetic effects of a single 8-hydroxyguanine (7-hydro-8-oxoguanine) residue inserted at a unique site in a viral genome. Biochemistry 29(30): 7024-7032.

Wood, S. M., P. A. Buffler, et al. (1998). Mortality and morbidity of workers exposed to acrylonitrile in fiber production. Scandinavian Journal of Work, Environment and Health 24(Suppl 2): 54-62.

Working, P. K., K. S. Bentley, et al. (1987). Comparison of the dominant lethal effects of acrylonitrile and acrylamide in male Fischer 344 rats. Mutagenesis 2(3): 215-220.

Working, P. K., K. S. Bentley, et al. (1987). Dominant lethal assay of acrylonitrile and acrylamide in the male rat. Environmental Mutagenesis 9(Suppl 8): 115.

Wormhoudt, L. W., J. N. Commandeur, et al. (1999). Genetic polymorphisms of human N-acetyltransferase, cytochrome P450, glutathione-S-transferase, and epoxide hydrolase enzymes: Relevance to xenobiotic metabolism and toxicity. Critical Reviews in Toxicology 29(1): 59-124.

Wu, W., J. Su, et al. (1995). [An epidemiological study on reproductive effects in female workers exposed to acrylonitrile]. Zhonghua Yufang Yixue Zazhi 29(2): 83-85.

Wu, X., C. I. Amos, et al. (1998). Cytochrome P450 2E1 DraI polymorphisms in lung cancer in minority populations. Cancer Epidemiology Biomarkers and Prevention 7(1): 13-18.

Wu, X., X. Zhong, et al. (2001). [Effect of acrylonitrile on reproductive function of male rats]. Zhonghua Laodong Weisheng Zhiyebing Zazhi 19(5): 357-359.

Würgler, F. E., U. Graf, et al. (1985). Somatic mutation and recombination test in wings of Drosophila melanogaster. Progress in Mutation Research 5: 325-340.

Wurgler, F. E., C. Ramel, et al., Eds. (1986). Assays for genetic activity in drosophila-melanogaster. Lyon, France, International Agency for Research on Cancer.

Xiao, W. (1998). [Study on the joint effects of acrylonitrile and alcohol in rats]. Wei Sheng Yan Jiu [Journal of Hygiene Research] 27(5): 295-296.

Xiao, W. (2000). Effects of acrylonitrile on activity of blood cholinesterase, Xiao, W.

Xiao, W. (2000). Study of the toxic effects of acrylonitrile on liver, Xiao, W.

Xiao, W. and X. Liu (2005). [Effect on acrylonitrile-induced germ cell apoptosis in male mice]. Weisheng Dulixue Zazhi 19(4): 278-280.

Xiao, W., X. Liu, et al. (2005). [Study on reproductive toxicities of acrylonitrile in male mice]. Gongye Weisheng yu Zhiyebin / Industrial health and occupational diseases 31(4): 241-244.

Xiao, W. and X. N. Liu (2006). [Influence of acrylonitrile on morphology of testicle tissue in mice]. Zhonghua Laodong Weisheng Zhiyebing Zazhi 24(3): 188.

Xiao, W., Z. Wang, et al. (2001). [Studies on the genotoxic effects of acrylonitrile]. Wei Sheng Yan Jiu [Journal of Hygiene Research] 30(4): 239-240.

Xiao, W., Z. Q. Wang, et al. (2001). [Investigational and experimental studies on the genotoxic effects of acrylonitrile with male]. Zhongguo Gonggong Weisheng / Chinese Journal of Public Health 17(5): 402-403.

Xiaoqiang, J., W. E. N. Shipeng, et al. (2008). Piezoelectric and Dielectric Properties of Acrylonitrile Butadiene Rubber/Lead Magnesio-Niobate Piezoelectric Ceram. Polymer - Plastics Technology and Engineering 47(10-12): 1273-1277.

Xie, W., W. Xiao, et al. (2001). [Effect of acrylonitrile on T lymphocyte subsets and serum interleukin-2 activity of peripheral blood in rats]. Zhongguo Gonggong Weisheng / Chinese Journal of Public Health 17(9): 815-816.

Xing, G., S. Wang, et al. (2007). [Effects of acetone pretreatment on oxidative stress induced by acrylonitrile in mice]. Weisheng Dulixue Zazhi 21(6): 458-460.

Xing, G., S. Wang, et al. (2006). [Subacute effects of acrylonitrile on levels of Zn, Fe, Cu and Se in mice brains]. Weisheng Dulixue Zazhi 20(3): 169-170.

Xing, G. w., C. l. Ren, et al. (2008). [Region-specific alterations of some biochemical parameters in brains of subacute acrylonitrile exposed rats]. China Occupational Medicine 35(5): 368-369, 373.

Xu, D. X., Q. X. Zhu, et al. (2003). Exposure to acrylonitrile induced DNA strand breakage and sex chromosome aneuploidy in human spermatozoa. Mutation Research 537(1): 93-100.

Yang, J. and P. Duerksen-Hughes (1998). A new approach to identifying genotoxic carcinogens: p53 induction as an indicator of genotoxic damage. Carcinogenesis 19(6): 1117-1125.

Yates, J. M., T. R. Fennell, et al. (1994). Characterization of phosphodiester adducts produced by the reaction of cyanoethylene oxide with nucleotides. Carcinogenesis 15(2): 277-283.

Yates, J. M., S. C. Summer, et al. (1993). Characterization of an adduct and its degradation product produced by the reaction of cyanoethylene oxide with deoxythymidine and DNA. Carcinogenesis 14(7): 1363-1369.

Yodaiken, R. E. (1978). NIOSH testimony to DOL on occupational exposure to acrylonitrile. Cincinnati, OH, National Institute for Occupational Safety and Health.

Younes, M., S. C. Sharma, et al. (1986). Glutathione depletion by phorone organ specificity and effect on hepatic microsomal mixed-function oxidase system. Drug and Chemical Toxicology 9(1): 67-73.

Young, J. D., R. Slaurer, et al. (1977). The pharmacokinetic and metabolism profile of 14C-acrylonitrile given to rats by three routes. Midland, MI, Dow Chemical Company.

Younger, L. (1966). Initial submission: Acrylonitrile: Toxicological investigation in rats with cover letter dated 081992 and attachment. St. Louis, MO, Monsanto Company.

Younger, L. (1974). Initial submission: Toxicological investigation of: Acrylonitrile with cover letter dated 081392. St. Louis, MO, Monsanto Company.

Younger, L. (1992). Initial submission: toxicological investigation of acrylonitrile (AN) with cover letter dated 081992.

Yuan, B. and J. L. Wong (1991). Inactivity of acrylonitrile epoxide to modify a Ha-ras DNA in a non-focus transfection-transformation assay. Carcinogenesis 12(5): 787-791.

Yuan, B. and J. L. Wong (1992). Proceedings of the Environmental Chemistry Division, American Chemical Society
Molecular epidemiology study of vinyl monomers regiospecific modification of ha-ras oncogene by acrylonitrile epoxide. Washington, DC, American Chemical Society.

Zabrodskii, P. F. and V. G. Germanchuk (2000). Role of corticosterone in realization of immunosuppressive effects in acute poisoning with toxic chemicals. Bulletin of Experimental Biology and Medicine 129(5): 468-470.

Zabrodskii, P. F., V. G. Germanchuk, et al. (2002). Combined effects of toxicants with various mechanisms of action and mechanical trauma on the immune system. Bulletin of Experimental Biology and Medicine 133(6): 594-596.

Zabrodskii, P. F., V. G. Germanchuk, et al. (2008). Inhibition of function of T cell subpopulations and decrease in cytokine production during subacute poisoning with various toxicants. Bulletin of Experimental Biology and Medicine 146(2): 234-236.

Zabrodskii, P. F., V. F. Kirichuk, et al. (2000). Mechanisms of immunotoxic effects of acrylonitrile. Bulletin of Experimental Biology and Medicine 129(5): 463-465.

Zabrodskiĭ, P. F., V. F. Kirichuk, et al. (2000). [Effect of the cholinesterase reactivator dipyroxime in various models of delayed hypersensitivity during acute intoxication by acrylonitrile]. Eksperimental'naia i klinicheskaia farmakologiia 63(5): 47-49.

Zabrodskii, P. F. and S. A. Romashchenko (1998). [The effect of sodium thiosulfate on nonspecific body resistance and on the immune reactions in acute acrylonitrile poisoning]. Eksperimental'naia i klinicheskaia farmakologiia 61(5): 56-58.

Zeller, H., H. T. Hofmann, et al. (1969). [Toxicity of nitriles (results of animal experiments and 15 years of experience in industrial medicine)]. Zentralblatt fuer Arbeitsmedizin und Arbeitsschutz 19(8): 225-238.

Zemlianskaia, T. A., V. I. a. Vissarionova, et al. (1979). [Effect of ascorbic acid and B group vitamins on the course of subacute acrylonitrile poisoning in rats]. Voprosy Pitaniya(4): 56-62.

Zhang, D. L., M. Y. Luan, et al. (2006). Design and synthesis of transparent poly(acrylonitrile-butadiene-styrene) and relationship between its phase construction and transparency. Chemical Research in Chinese Universities 22(5): 658-662.

Zhang, G. and X. Dai (1998). [Research advance on toxicity of acrylonitrile]. Zhongguo Gonggong Weisheng Xuebao 17(3): 190-192.

Zhang, H. (2000). Mechanisms of acrylonitrile-induced morphological transformation in syrian hamster embryo (SHE) cells, Indiana University.

Zhang, H., L. M. Kamendulis, et al. (2000). Acrylonitrile-induced morphological transformation in Syrian hamster embryo cells. Carcinogenesis 21(4): 727-733.

Zhang, H., L. M. Kamendulis, et al. (2002). Mechanisms for the induction of oxidative stress in Syrian hamster embryo cells by acrylonitrile. Toxicological Sciences 67(2): 247-255.

Zhang, L. l. and W. Xiao (2009). [Effects of acrylonitrile on permeability, mitochondria membrane potential and ultramicrostructure in Chinese hamster lung fibroblast cell]. China Occupational Medicine 36(1): 14-17.

Zhang, S., S. Chen, et al. (2008). Preparation and characterization of an ion exchanger based on semi-carbonized polyacrylonitrile fiber. Reactive and Functional Polymers 68(4): 891-898.

Zhang, Z., F. Jin, et al. (2001). [Effects of acrylonitrile on viability and gap junctional intercellular communication in CHL cells]. Zhonghua Yufang Yixue Zazhi 35(3): 177-180.

Zhang, Z., X. Wang, et al. (1998). Genetic toxicological study on acrylonitrile. 24(3): 179-181.

Zhang, Z., X. Wang, et al. (1999). [Effect of acrylonitrile on the activity of Ca(2+)-ATPase and phosphorylase A of liver in rats]. Wei Sheng Yan Jiu [Journal of Hygiene Research] 28(4): 194-195.

Zhao, X., C. Du, et al. (2009). [Curcumin protects against acrylonitrile neurotoxicity in rat cortical astrocytes via activation of nuclear factor E2 related factor (Nrf2)]. Weisheng Dulixue Zazhi 23(6): 435-438.

Zhong, X., X. Wu, et al. (2005). [Effects of acrylonitrile on gene expression of androgen binding protein and inhibin in testes of Sprague-Dawley rats]. Laodong Yixue = Journal of Labour Medicine 22(5): 414-416.

Zhou, Y., F. Jin, et al. (2005). [Application of reference value of urinary thiocyanate in occupational surveillance of workers exposed to acrylonitrile]. Gongye Weisheng yu Zhiyebin / Industrial health and occupational diseases 31(4): 232-236.

Zhou, Z. C., J. L. Fu, et al. (1993). [Application of the Chinese hamster V79 cell metabolic cooperation assay for screening teratogens and its reliability]. Chinese Journal of Pharmacology and Toxicology / Zhong Guo Yao Li Xue Yu Du Li Xue Za Zhi 7(1): 64-67.

Zhurkov, V. S., R. I. a. Shram, et al. (1983). [Analysis of the mutagenic activity of acrylonitrile]. Gigiena i Sanitariia(1): 71-72.

Zielinska, E., M. Zubowska, et al. (2004). Polymorphism within the glutathione S-transferase P1 gene is associated with increased susceptibility to childhood malignant diseases. Pediatric Blood & Cancer 43(5): 552-559.

Zimmermann, F. K., J. Heinisch, et al., Eds. (1985). Tests for the induction of mitotic aneuploidy in the yeast saccharomyces cerevisiae strain D61.M. Amsterdam, The Netherlands, Elsevier.

Zitting, A. and T. Heinonen (1980). Decrease of reduced glutathione in isolated rat hepatocytes caused by acrolein, acrylonitrile, and the thermal degradation products of styrene copolymers. Toxicology 17(3): 333-341.

Zitting, A., R. Tenhunen, et al. (1981). Effects of intraperitoneally injected acrylonitrile on liver, kidney and brain. Acta Pharmacologica et Toxicologica 49(5): 412-415.

Zotova, L. V. (1975). [Working conditions in the manufacture of acrylonitrile and their effects on the body of workers]. Gigiena Truda i Professional'nye Zabolevaniya(8): 8-11.

Zotova, L. V. (1975). Working conditions in the production of acrylonitrile and their effect on workers. Gigiena Truda i Professional'nye Zabolevaniya(8): 8-11.

Zotova, L. V. (1976). [The toxic action of acrylonitrile entering the body of experimental animals via the skin]. Gigiena i Sanitariia 0(10): 103-105.

Zubakova, G. S. (1978). [Effect of the products from the manufacture and processing of styrene copolymer, methylmethacrylate and acrylic acid nitrile on the state of the liver in workers]. Gigiena Truda i Professional'nye Zabolevaniya(12): 18-21.