

## منابع علمی در زمینه گاز خردل

عنوان مقالاتی که پیش رو دارید از شبکه اینترنت استخراج شده است. واژه های کلیدی انتخاب شده Chemical Mustard Gas به Relevance و Iran در صد بود، به این معنا که ممکن است برخی مقالات فقط مرسوط به خردل باشد (که مسلماً واستنگی آن به موضوع درخواستی ۱۰۰ درصد نیست) و با برخی مقالات هر دو واژه را دارا بودند (که واستنگی حدود ۱۰۰ درصد داشته باشد). آنچه مربوط به مطالعات انسانی، حصوصاً مخصوصین شهباش ایرانی بود را با ستاره ای مشخص نموده ام. آنچه ادعایی شود که این «محترر» شامل تمامی مقالات منتشره در این زمینه می شود ولی شاید برای اجاد پیشگیرانگی باشک اطلاعاتی «شروع» خوب باشد. هدف از این کار آشنایی با مقالات چاپ شده در مورد مخروجین شهباش دوران دفاع مقدس است و در سطر دارایم در شماره آینده لیست مقالاتی که در مجلات علمی داخل در زمینه دفاع مقدس به چاپ رسیده را تقدیم خوایم، بخول و قوه منه تعالی.

- ★ Aasted A, Wulf HC, Darre E, Niebuhr E. [Fishermen exposed to mustard gas. Clinical experience and evaluation of the cancer risk]. Ugeskr Laeger. 1985 Jul 8;147(28):2213-6. Danish.
- ★ Abbas F. Report of the specialists appointed by the Secretary-General of the United Nations to investigate allegations by the Islamic Republic of Iran concerning the use of chemical weapons. Arch Belg. 1984;Suppl: p302-10.
- Amir A, Chapman S, Gozes Y, et al. Protection by extracellular glutathione against sulfur mustard induced toxicity in vitro. Hum Exp Toxicol (England), Dec 1998, 17(12) p652-60.
- Amirkhanov NV, Zarytova VF [Reactive derivatives of phosphorothioate oligonucleotide analogues. II. Properties of phosphorothioate oligodeoxyribonucleotide derivatives containing an aromatic residue of nitrogen mustard [gas]]. Bioorg Khim (Russia), Jul 1997, 23(7) p569-75.
- ★ Andrew DJ, Lindsay CD Protection of human upper respiratory tract cell lines against sulphur mustard toxicity by hexamethylenetetramine (HMT). Hum Exp Toxicol (England), Jul 1998, 17(7) p373-9.
- ★ Arroyo CM, Von Tersch RL, Broomfield CA Activation of alpha-human tumour necrosis factor (TNF-alpha) by human monocytes (THP-1) exposed to 2-chloroethyl ethyl sulphide (H-MG). Hum Exp Toxicol (England), Jul 1995, 14(7) p547-53.
- ★ Ashkenazi I, Blumenthal M, Avni I, et al. [Mustard gas injuries of the eyes] Harefuah (Israel), Mar 1 1991, 120(5) p279-83.
- ★ Assennato G, Ambrosi F, Sivo D [Possible long-term effects on the respiratory system of exposure to yperite of fishermen] Med Lav (Italy), Mar-Apr 1997, 88(2) p148-54.
- ★ Azizi F, Amini M, Arbab P Time course of changes in free thyroid indices, rT3, TSH, cortisol and ACTH following exposure to sulfur mustard. Exp Clin Endocrinol (Germany), 1993, 101(5) p303-6.
- ★ Azizi F, Keshavarz A, Roshanzamir F, et al. Reproductive function in men following exposure to chemical warfare with sulphur mustard. Med War (England), Jan-Mar 1995, 11(1) p34-44.
- ★ Balali M. Clinical and laboratory findings in Iranian fighters with chemical gas poisoning. Arch Belg. 1984;Suppl:254-9.
- ★ Barranco VP Mustard gas and the dermatologist. Int J Dermatol (United States), Oct 1991, 30(10) p684-6.
- Beale G The discovery of mustard gas mutagenesis by Auerbach and Robson in 1941. Genetics (United States), Jun 1993, 134(2) p393-9.
- ★ Benschop HP, van der Schans GP, Noort D, et al. Verification of exposure to sulfur mustard in two casualties of the Iran-Iraq conflict. J Anal Toxicol(United States), Jul-Aug 1997, 21(4): p249-51.
- ★ Black RM, Brewster K, Clarke RJ, et al Biological fate of sulphur mustard, 1,1'-thiobis(2-chloroethane):

- isolation and identification of urinary metabolites following intraperitoneal administration to rat. *Xenobiotica (England)*, Apr 1992, 22(4) p405-18.
- ★ Black RM, Clarke RJ, Harrison JM, et al. Biological fate of sulphur mustard: identification of valine and histidine adducts in haemoglobin from casualties of sulphur mustard poisoning. *Xenobiotica (England)*, May 1997, 27(5) p499-512.
- ★ Black RM, Clarke RJ, Read RW, et al. Application of gas chromatography-mass spectrometry and gas chromatography-tandem mass spectrometry to the analysis of chemical warfare samples, found to contain residues of the nerve agent sarin, sulphur mustard and their degradation products. *J Chromatogr A (Netherlands)*, Feb 25 1994, 662(2) p301-21.
- ★ Black RM, Clarke RJ, Read RW Analysis of 1,1'-sulphonylbis[2-(methylsulphonyl)ethane] and 1-methylsulphonyl-2-[2-(methylthio)ethylsulphonyl]-ethane, metabolites of sulphur mustard, in urine using gas chromatography-mass spectrometry. *J Chromatogr (Netherlands)*, Oct 11 1991, 558(2) p405-14.
- Black RM, Hambrook JL, Howells DJ, et al. Biological fate of sulfur mustard, 1,1'-thiobis(2-chloroethane). Urinary excretion profiles of hydrolysis products and beta-lyase metabolites of sulfur mustard after cutaneous application in rats. *J Anal Toxicol (United States)*, Mar-Apr 1992, 16(2) p79-84.
- ★ Black RM, Harrison JM, Read RW .Biological fate of sulphur mustard: in vitro alkylation of human haemoglobin by sulphur mustard. *Xenobiotica (England)*, Jan 1997, 27(1) p11-32.
- ★ Black RM, Read RW Improved methodology for the detection and quantitation of urinary metabolites of sulphur mustard using gas chromatography-tandem mass spectrometry. *J Chromatogr B Biomed Appl (Netherlands)*, Mar 10 1995, 665(1) p97-105.
- ★ Black RM, Read RW Biological fate of sulphur mustard, 1,1'-thiobis(2-chloroethane): identification of beta-lyase metabolites and hydrolysis products in human urine. *Xenobiotica (England)*, Feb 1995, 25(2) p167-73.
- ★ Black RM, Read RW Methods for the analysis of thioglycol sulphoxide, a metabolite of sulphur mustard, in urine using gas chromatography-mass spectrometry. *J Chromatogr (Netherlands)*, Oct 11 1991, 558(2) p393-404.
- ★ Blanc PD The legacy of war gas [editorial; comment]. *Am J Med (United States)*, Jun 1999, 106(6) p689-90.
- Borak J, Sidell FR Agents of chemical warfare: sulfur mustard. *Ann Emerg Med (United States)*, Mar 1992, 21(3) p303-8.
- Boronin AM, Sakharovskii VG, Starovoitov II, et al. Scientific principles of complex ecologically-safe technology of mustard gas destruction] *Prikl Biokhim Mikrobiol (Russia)*, Jan-Feb 1996, 32(1): p61-8.
- ★ Brimfield AA Possible protein phosphatase inhibition by bis(hydroxyethyl)sulfide, a hydrolysis product of mustard gas. *Toxicol Lett (Netherlands)*, Jun 1995, 78(1) p43-8.
- Brimfield AA, Zweig LM, Novak MJ, et al. In vitro oxidation of the hydrolysis product of sulfur mustard, 2,2'-thiobis-ethanol, by mammalian alcohol dehydrogenase. *J Biochem Mol Toxicol (United States)*, 1998, 12(6) p361-9.
- Broch H, Hamza A, Vasilescu D Quantum molecular modeling of the interaction between guanine and alkylating agents--1--sulfur mustard. *J Biomol Struct Dyn (United States)*, Jun 1996, 13(6) p903-14.
- Brown RF, Rice P Histopathological changes in Yucatan minipig skin following challenge with sulphur mustard. A sequential study of the first 24 hours following challenge. *Int J Exp Pathol (England)*, Feb 1997, 78(1) p9-20.
- Buczynski A, Gniatecki W Effect of mustard gas on superoxide dismutase activity and the level of malonyl dialdehyde: in vitro studies. *Int J Occup Med Environ Health (Poland)*, 1999, 12(2): p119-22.
- Byrne MP, Broomfield CA, Stites WE Mustard gas crosslinking of proteins through preferential alkylation of cysteines. *J Protein Chem (United States)*, Feb 1996, 15(2): p131-6.
- Byrne MP, Stites WE Chemically crosslinked protein dimers: stability and denaturation effects. *Protein Sci (United States)*, Dec 1995, 4(12) p2545-58.
- Calvet JH, Coste A, Levame M, et al. Airway epithelial damage induced by sulfur mustard in guinea pigs, effects of glucocorticoids. *Hum Exp Toxicol (England)*, Dec 1996, 15(12): p964-71.
- Calvet JH, Jarreau PH, Levame M, et al. Acute and chronic respiratory effects of sulfur mustard intoxication in guinea pig. *J Appl Physiol (United States)*, Feb 1994, 76(2) p681-8.

- Cerny LC, Cerny ER The effect of biological media on the hydrolysis of mustard simulants. *Biomed Sci Instrum* (United States), 1997, 33 p535-40.
- Chauhan RS, Murthy LV, Pant SC Electron microscopic study of guinea pig skin exposed to sulphur mustard. *Bull Environ Contam Toxicol* (United States), Jul 1995, 55(1): p50-7.
- Chauhan RS, Murthy LV Effect of topically applied sulphur mustard on guinea pig liver. *J Appl Toxicol* (England), Nov-Dec 1997, 17(6) p415-9.
- Chauhan RS, Murthy LV, Arora U, et al. Structural changes induced by sulphur mustard in rabbit skin. *J Appl Toxicol* (England), Nov-Dec 1996, 16(6) p491-5.
- Chauhan RS, Murthy LV, Malhotra RC Effect of sulphur mustard on mouse skin--an electron microscopic evaluation. *Bull Environ Contam Toxicol* (United States), Sep 1993, 51(3) p374-80.
- Chauhan RS, Murthy LV, Pandey M Histomorphometric study of animal skin exposed to sulphur mustard. *Bull Environ Contam Toxicol* (United States), Jul 1993, 51(1) p138-45.
- ★ Chakrabarti AK, Ray P, Broomfield CA, et al. Purification and characterization of protease activated by sulfur mustard in normal human epidermal keratinocytes. *Biochem Pharmacol* (England), Aug 15 1998, 56(4) p467-72.
- ★ Chevillard M, Lainee P, Robineau P, et al. Toxic effects of sulfur mustard on respiratory epithelial cells in culture. *Cell Biol Toxicol* (Netherlands), Apr-Jun 1992, 8(2) p171-81.
- ★ Chilcott RP, Brown RF, Rice P Non-invasive quantification of skin injury resulting from exposure to sulphur mustard and Lewisite vapours. *Burns* (England), May 2000, 26(3) p245-50.
- Ciszewka-Popolek B, Czerny K, Swieca M, et al. [The effect of psoriazin preparation on the morphologic and the histochemical liver image] *Gegenbaus Morphol Jahrb* (Germany, East), 1989, 135(6) p875-80.
- Clark CR, Smith JR, Shih ML Development of an in vitro screening method for evaluating decontamination of sulfur mustard by reactive dermal formulations. *J Appl Toxicol* (England), Dec 1999, 19 Suppl 1: pS77-81.
- ★ Clayton ET, Kelly SA, Meier HL Effects of specific inhibitors of cellular functions on sulfur mustard-induced cell death. *Cell Biol Toxicol* (Netherlands), Apr-Jun 1993, 9(2) p165-75.
- ★ Colardyn F, De Bersaques J. Clinical observations and therapy of injuries with vesicants. *Arch Belg* 1984;Suppl:298-301.
- ★ Colardyn F, de Keyser H, Ringoir S, et al. Clinical observation and therapy of injuries with vesicants. *J Toxicol Clin Exp* (France), Jul-Aug 1986, 6(4): p237-46.
- ★ Cook JR, Van Buskirk RG A double-label technique that monitors sulfur mustard damage to nuclei and mitochondria of normal human epidermal keratinocytes in vitro. *Toxicol Pathol* (United States), Sep-Oct 1997, 25(5) p481-6.
- Coutelier JP, Lison D, Simon O, et al. Effect of sulfur mustard on murine lymphocytes. *Toxicol Lett* (Netherlands), Oct 1991, 58(2) p143-8.
- ★ Cowan FM, Broomfield CA, Smith WJ Sulfur mustard exposure enhances Fc receptor expression on human epidermal keratinocytes in cell culture: implications for toxicity and medical countermeasures. *Cell Biol Toxicol* (Netherlands), Aug 1998, 14(4) p261-6.
- ★ Cowan FM, Yourick JJ, Hurst CG, et al. Sulfur mustard-increased proteolysis following in vitro and in vivo exposures. *Cell Biol Toxicol* (Netherlands), Jul-Sep 1993, 9(3) p269-77.
- ★ Cowan FM, Broomfield CA Putative roles of inflammation in the dermatopathology of sulfur mustard. *Cell Biol Toxicol* (Netherlands), Jul-Sep 1993, 9(3) p201-13.
- ★ Cowan FM, Broomfield CA, Smith WJ Inhibition of sulfur mustard-increased protease activity by niacinamide, N-acetyl-L-cysteine or dexamethasone. *Cell Biol Toxicol* (Netherlands), Apr-Jun 1992, 8(2) p129-38.
- Czerny K, Ciszewska-Popolek B, Mitura K [Histochemical studies of the kidney of white rats after experimental external application of sulfur mustard gas] *Gegenbaus Morphol Jahrb* (Germany, East), 1990, 136(1) p89-94.
- ★ Dacre JC, Goldman M Toxicology and pharmacology of the chemical warfare agent sulfur mustard. *Pharmacol Rev* (United States), Jun 1996, 48(2): p289-326.

- D'agostino PA, Provost LR Capillary column isobutane chemical ionization mass spectrometry of mustard and related compounds. *Biomed Environ Mass Spectrom (England)*, May 15 1988, 15(10) p553-64.
- ★ Dahl H, Gluud B, Vangsted P, Norn M. Eye lesions induced by mustard gas. *Acta Ophthalmol Suppl*. 1985;173:30-1.
- ★ Dangi RS, Jeevaratnam K, Sugendran K, et al. Solid-phase extraction and reversed-phase high-performance liquid chromatographic determination of sulphur mustard in blood. *J Chromatogr B Biomed Appl (Netherlands)*, Nov 18 1994, 661(2) p341-5.
- ★ Darre E [Recent perspectives in the protection of the skin from mustard gas] *Ugeskr Laeger (Denmark)*, Oct 3 1988, 150(40) p2389-91.
- ★ de Keyser H, Geerts ML, Colardyn F, de Bersaques J. [Skin damage caused by the effect of nitrogen mustard gas] *Hautarzt*. 1986 Aug;37(8):467-71. German.
- Debouzy JC, Dabouis V, Fauville F, et al. [Substituted cyclodextrins as chelating reagents for ethers, thioethers and yperite] *Ann Pharm Fr (France)*, Jan 2000, 58(1) p20-3.
- ★ d'Halluin F, Roels H. Autopsy observations in an Iranian soldier exposed to war gas. *Arch Belg*. 1984; Suppl:284-90.
- ★ Dowlati A, Pierard GE, Dowlati Y Epidermal hyperplasia with or without atypia in patients exposed to mustard gas [letter; comment] *Arch Dermatol (United States)*, Feb 1993, 129(2) p245.
- ★ Drasch G, Kretschmer E, Kauert G, et al. Concentrations of mustard gas [bis(2-chloroethyl)sulfide] in the tissues of a victim of a vesicant exposure. *J Forensic Sci (United States)*, Nov 1987, 32(6): p1788-93.
- ★ Dube SN, Husain K, Sugendran K, et al. Dose response of sulphur mustard: behavioral and toxic signs in rats. *Indian J Physiol Pharmacol (India)*, Jul 1998, 42(3) p389-94.
- ★ Easton DF, Peto J, Doll R Cancers of the respiratory tract in mustard gas workers. *Br J Ind Med (England)*, Oct 1988, 45(10) p652-9.
- Ebtekar M, Hassan ZM Effect of immunomodulators pyrimethamine and cimetidine on immunosuppression induced by sulfur mustard in mice. *Int J Immunopharmacol (England)*, May 1993, 15(4): p533-41.
- ★ Eisenmenger W, Drasch G, von Claremann M, et al. Clinical and morphological findings on mustard gas [bis(2-chloroethyl)sulfide] poisoning. *J Forensic Sci (United States)*, Nov 1991, 36(6): p1688-98.
- ★ Eldad A, Ben Meir P, Breiterman S, et al. Superoxide dismutase (SOD) for mustard gas burns. *Burns (England)*, Mar 1998, 24(2) p114-9.
- ★ Emad A, Rezaian GR Characteristics of bronchoalveolar lavage fluid in patients with sulfur mustard gas-induced asthma or chronic bronchitis [see comments] *Am J Med (United States)*, Jun 1999, 106(6) p625-8.
- ★ Emad A, Rezaian GR Immunoglobulins and cellular constituents of the BAL fluid of patients with sulfur mustard gas-induced pulmonary fibrosis. *Chest (United States)*, May 1999, 115(5) p1346-51.
- ★ Emad A, Rezaian GR The diversity of the effects of sulfur mustard gas inhalation on respiratory system 10 years after a single, heavy exposure: analysis of 197 cases. *Chest (United States)*, Sep 1997, 112(3) p734-8.
- ★ English F, Bennett Y The challenge of mustard-gas keratopathy [letter] *Med J Aust (Australia)*, Jan 1 1990, 152(1) p55-6.
- ★ Fidder A, Noort D, de Jong LP, et al. N7-(2-hydroxyethylthioethyl)-guanine: a novel urinary metabolite following exposure to sulphur mustard [letter] *Arch Toxicol (Germany)*, 1996, 70(12) p854-5.
- Fidder A, Moes GW, Scheffer AG, et al. Synthesis, characterization, and quantitation of the major adducts formed between sulfur mustard and DNA of calf thymus and human blood. *Chem Res Toxicol (United States)*, Mar-Apr 1994, 7(2) p199-204.
- ★ Firooz A, Komeili A, Dowlati Y Eruptive melanocytic nevi and cherry angiomas secondary to exposure to sulfur mustard gas [letter]. *J Am Acad Dermatol (United States)*, Apr 1999, 40(4). Fowler WK, Smith JE Jr Solid sorbent collection and gas chromatographic determination of bis(2-chloroethyl)sulfide in air at trace concentrations. *J Chromatogr Sci (United States)*, Mar 1990, 28(3) p118-22.
- ★ Freitag L, Firuzian N, Stamatis G, et al. The role of bronchoscopy in pulmonary complications due to

- mustard gas inhalation. *Chest (United States)*, Nov 1991, 100(5) p1436-41.
- Gentilhomme E, Reano A, Pradel D, et al. In vitro dermal intoxication by bis(chloroethyl)sulfide. Effect on secondary epidermization. *Cell Biol Toxicol (Netherlands)*, Feb 1998, 14(1) p1-11.
- ★ Gluud B, Dahl H, Vangsted P, Norn MS [Mustard gas—a reiterating threat]. *Nord Med*. 1985;100(8-9):222-3, 243. Danish. No abstract available.
- Gold MB, Bongiovanni R, Scharf BA, et al. Hypochlorite solution as a decontaminant in sulfur mustard contaminated skin defects in the euthymic hairless guinea pig. *Drug Chem Toxicol (United States)*, Nov 1994, 17(4) p499-527.
- Gold MB, Scharf BA Hematological profile of the euthymic hairless guinea pig following sulfur mustard vesicant exposure. *J Appl Toxicol (England)*, Nov-Dec 1995, 15(6) p433-8.
- Gray PJ Sulphur mustards inhibit binding of transcription factor AP2 in vitro. *Nucleic Acids Res (England)*, Nov 1995, 23(21): p4378-82.
- ★ Gross CL, Giles KC, Smith WJ L-oxothiazolidine 4-carboxylate pretreatment of isolated human peripheral blood lymphocytes reduces sulfur mustard cytotoxicity. *Cell Biol Toxicol (Netherlands)*, Mar 1997, 13(3): p167-73.
- ★ Gross CL, Innace JK, Hovatter RC, et al. Biochemical manipulation of intracellular glutathione levels influences cytotoxicity to isolated human lymphocytes by sulfur mustard. *Cell Biol Toxicol (Netherlands)*, Jul-Sep 1993, 9(3) p259-67.
- Habraken Y, Ludlum DB Release of chloroethyl ethyl sulfide-modified DNA bases by bacterial 3-methyladenine-DNA glycosylases I and II. *Carcinogenesis (United States)*, Mar 1989, 10(3) p489-92.
- Hambrook JL, Harrison JM, Howells DJ, et al. Biological fate of sulphur mustard (1,1'-thio-bis(2-chloroethane)): urinary and faecal excretion of 35S by rat after injection or cutaneous application of 35S-labelled sulphur mustard. *Xenobiotica (England)*, Jan 1992, 22(1) p65-75.
- ★ Hambrook JL, Howells DJ, Schock C Biological fate of sulphur mustard (1,1'-thiobis(2-chloroethane)): uptake, distribution and retention of 35S in skin and in blood after cutaneous application of 35S-sulphur mustard in rat and comparison with human blood in vitro. *Xenobiotica (England)*, May 1993, 23(5) p537-61.
- ★ Hay A Effects on health of mustard gas [letter] *Nature (England)*, Dec 2 1993, 366(6454) p398.
- ★ Heyndrickx A, Cordonnier J, De Bock A. Chromatographic procedures for the toxicological determination of bis (2-chloroethyl) sulfide (mustard gas, yperite) in environmental and human biological samples. *Arch Belg*. 1984;Suppl:102-9.
- ★ Heyndrickx A, Sookvanichsilp N, Van den Heede M. Detection of trichothecene mycotoxins (yellow rain) in blood, urine and faeces of Iranian soldiers treated as victims of a gas attack. *Arch Belg*. 1984;Suppl:143-6.
- ★ Heyndrickx A, Van Steenberge M. Methemoglobinemia in patients attacked by chemical and microbiological warfare agents. *Arch Belg*. 1984;Suppl:69-73.
- ★ Heyndrickx A, De Puydt H, Cordonnier J. Comparative study of two different field tests for the detection of yperite in the atmosphere, applied on biological samples of gased soldiers. *Arch Belg*. 1984;Suppl:61-8.
- ★ Heyndrickx A, Heyndrickx B. Treatment of Iranian soldiers attacked by chemical and microbiological war gases. *Arch Belg*. 1984;Suppl:57-9.
- ★ Heyndrickx A, Heyndrickx B. Comparison of the toxicological investigations in man in Southeast Asia, Afghanistan and Iran, concerning gas warfare. *Arch Belg*. 1984;Suppl:426-34.
- ★ Hochmeister M, Vycudilik W [Morpho-toxicologic findings following war gas effect (S-Lost)] *Beitr Gerichtl Med (Austria)*, 1989, 47 p533-8.
- Hooijsscher EW, Kientz CE, Brinkman UA Determination of the sulfur mustard hydrolysis product thioglycol by microcolumn liquid chromatography coupled on-line with sulfur flame photometric detection using large-volume injections and peak compression. *J Chromatogr A (Netherlands)*, Jul 23 1999, 849(2) p433-44.
- ★ Hua A, Daniel R, Jasseron MP, et al. Early cytotoxic effects induced by bis-chloroethyl sulphide (sulphur mustard): [Ca<sup>2+</sup>]i rise and time-dependent inhibition of B77 fibroblast serum response. *J Appl Toxicol (United States)*, May-Jun 1993, 13(3) p161-8.

- Husain K, Dube SN, Sugendran K, et al. Effect of topically applied sulphur mustard on antioxidant enzymes in blood cells and body tissues of rats. *J Appl Toxicol (England)*, May-Jun 1996, 16(3): p245-8.
- Itoh N, Yoshida M, Miyamoto T, et al. Fungal cleavage of thioether bond found in Yperite. *FEBS Lett (Netherlands)*, Jul 28 1997, 412(2) p281-4.
- ★ Jakubowski EM, Woodard CL, Mershon MM, et al. Quantification of thiiodiglycol in urine by electron ionization gas chromatography-mass spectrometry. *J Chromatogr (Netherlands)*, Jun 8 1990, 528(1) p184-90.
- ★ Jorgensen BS, Olesen B, Berntszen O. [Accidents with mustard gas near Bornholm]. *Ugeskr Laeger*. 1985 Jul 8;147(28):2251-4. Danish.
- Khalemin Ja A, Kokhan MM, Bochkarev Iu M, et al. [A case of generalized pustular psoriasis arising following the use of psoriazin] *Vestn Dermatol Venerol (USSR)*, 1989, (3) p60-2.
- Kim YB, Lee YS, Choi DS, et al. Inactivation of microsomal Ca(2+)-ATPase by 2-chloroethylsulfide. *Chem Biol Interact (Ireland)*, Aug 18 1995, 97(3): p239-46.
- ★ Kjellstrom BT, Persson JK, Runn P. Surgical treatment of skin lesions induced by sulfur mustard ("mustard gas")—an experimental study in the guinea pig. *Ann Acad Med Singapore (Singapore)*, Jan 1997, 26(1) p30-6.
- ★ Klehr NW. [Late manifestations in former mustard gas workers with special reference to cutaneous findings]. *Z Hautkr*. 1984 Sep 1;59(17):1161-4, 1167-70. German.
- Knezevic DL, Tadic V. [Radioprotective agents in the decontamination of rats poisoned with percutaneously administered mustard gas] *Vojnosanit Pregl (Yugoslavia)*, Sep-Oct 1996, 53(5): p373-6.
- ★ Knezevic DL, Tadic V. [Percutaneous poisoning with sulphur mustard. Prevention, decontamination and therapy] *Vojnosanit Pregl (Yugoslavia)*, Mar-Apr 1995, 52(2):p163-72.
- ★ Koper O, Lucas E, Klabunde KJ. Development of reactive topical skin protectants against sulfur mustard and nerve agents. *J Appl Toxicol (England)*, Dec 1999, 19 Suppl 1 pS59-70.
- ★ Krause H [Comment on the short report by H. Krause and E.-I. Grussendorf: Syntopy of Bowen disease and mustard gas scar (letter)] *Hautarzt (Germany)*, Jan 1992, 43(1) p54.
- ★ Kulling P [New antidotes for poisoning and mustard gas exposure are being introduced] *Lakartidningen (Sweden)*, Feb 19 1992, 89(8) p548.
- Kumar O, Vijayaraghavan R. Effect of sulphur mustard inhalation exposure on some urinary variables in mice. *J Appl Toxicol (England)*, Jul-Aug 1998, 18(4) p257-9.
- Lakshmana Rao PV, Vijayaraghavan R, Bhaskar AS. Sulphur mustard induced DNA damage in mice after dermal and inhalation exposure. *Toxicology (Ireland)*, Nov 29 1999, 139(1-2) p39-51.
- Langenberg JP, van der Schans GP, Spruit HE, et al. Toxicokinetics of sulfur mustard and its DNA-adducts in the hairless guinea pig. *Drug Chem Toxicol (United States)*, 1998, 21 Suppl 1 p131-47.
- Langford AM, Hobbs MJ, Upshall DG, et al. The effect of sulphur mustard on glutathione levels in rat lung slices and the influence of treatment with arylthiols and cysteine esters. *Hum Exp Toxicol (England)*, Aug 1996, 15(8) p619-24.
- Lee T, Pham MQ, Weigand WA, et al. Bioreactor strategies for the treatment of growth-inhibitory waste: an analysis of thiiodiglycol degradation, the main hydrolysis product of sulfur mustard. *Biotechnol Prog (United States)*, Jul-Aug 1996, 12(4) p533-9.
- Li Q, Laval J, Ludlum DB. Fpg protein releases a ring-opened N-7 guanine adduct from DNA that has been modified by sulfur mustard. *Carcinogenesis (England)*, May 1997, 18(5) p1035-8.
- ★ Lieske CN, Klopacic RS, Gross CL, et al. Development of an antibody that binds sulfur mustard [see comments] *Immunol Lett (Netherlands)*, Feb 1992, 31(2) p117-22.
- Lindsay CD, Rice P. Changes in connective tissue macromolecular components of Yucatan mini-pig skin following application of sulphur mustard vapour. *Hum Exp Toxicol (England)*, Apr 1995, 14(4) p341-8.
- ★ Lindsay CD, Rice P. Assessment of the biochemical effects of percutaneous exposure of sulphur mustard in an in vitro human skin system. *Hum Exp Toxicol (England)*, Mar 1996, 15(3) p237-44.
- Logan TP, Millard CB, Shutz M, et al. Cutaneous uptake of <sup>14</sup>C-HD vapor by the hairless guinea pig.

- Drug Chem Toxicol (United States), May 1999, 22(2): p375-87.
- Lohs K [Sulfur-lost (2,2'-dichlorodiethyl sulfide)--still of current toxicologic importance] Z Arztl Fortbild (Jena) (Germany), Aug 12 1993, 87(8) p659-64.
- ★ Ludlum DB, Austin-Ritchie P, Hagopian M, et al. Detection of sulfur mustard-induced DNA modifications. Chem Biol Interact (Ireland), Apr 1994, 91(1) p39-49.
- Machata G, Vycudilík W. Detection of mustard gas in biological material. Arch Belg. 1984;Suppl:53-5.
- Maisonneuve A, Callebat I, Debordes L, et al. Distribution of [<sup>14</sup>C]sulfur mustard in rats after intravenous exposure. Toxicol Appl Pharmacol (United States), Apr 1994, 125(2) p281-7.
- Maisonneuve A, Callebat I, Debordes L, et al. Specific and sensitive quantitation of 2,2'-dichlorodiethyl sulphide (sulphur mustard) in water, plasma and blood: application to toxicokinetic study in the rat after intravenous intoxication. J Chromatogr (Netherlands), Dec 2 1992, 583(2) p155-65.
- Maisonneuve A, Callebat I, Debordes L, et al. Biological fate of sulphur mustard in rat: toxicokinetics and disposition. Xenobiotica (England), Jul 1993, 23(7) p771-80.
- ★ Mandl H, Freilinger G. First report on victims of chemical warfare in the Gulf-war treated in Vienna. Arch Belg. 1984;Suppl:330-40.
- Matijasevic Z, Stering A, Niu TQ, et al. Release of sulfur mustard-modified DNA bases by Escherichia coli 3-methyladenine DNA glycosylase II. Carcinogenesis (England), Oct 1996, 17(10) p2249-52.
- Masta A, Gray PJ, Phillips DR Effect of sulphur mustard on the initiation and elongation of transcription. Carcinogenesis (England), Mar 1996, 17(3) p525-32.
- ★ Mazumder PK, Sugendran K, Vijayaraghavan R Protective efficacy of calcium channel blockers in sulphur mustard poisoning. Biomed Environ Sci (United States), Dec 1998, 11(4) p363-9.
- Meier HL. The time-dependent effect of 2,2'-dichlorodiethyl sulfide (sulfur mustard, HD, 1,1'-thiobis [2-chloroethane]) on the lymphocyte viability and the kinetics of protection by poly(ADP-ribose) polymerase inhibitors. Cell Biol Toxicol (Netherlands), Jun 1996, 12(3): p147-53.
- ★ Meier HL, Johnson JB The determination and prevention of cytotoxic effects induced in human lymphocytes by the alkylating agent 2,2'-dichlorodiethyl sulfide (sulfur mustard, HD). Toxicol Appl Pharmacol (United States), Apr 1992, 113(2) p234-9.
- ★ Michaelson S DNA fragmentation pattern induced in thymocytes by sulphur mustard. Chem Biol Interact (Ireland), Feb 15 2000, 125(1) p1-15.
- Mershon MM, Mitcheltree LW, Petrali JP, et al. Hairless guinea pig bioassay model for vesicant vapor exposures. Fundam Appl Toxicol (United States), Oct 1990, 15(3) p622-30.
- ★ Mol MA, Smith WJ Ca<sup>2+</sup> homeostasis and Ca<sup>2+</sup> signalling in sulphur mustard-exposed normal human epidermal keratinocytes. Chem Biol Interact (Ireland), Mar 8 1996, 100(1) p85-93.
- ★ Mol MA, van der Schans GP, Lohman PH Quantification of sulfur mustard-induced DNA interstrand cross-links and single-strand breaks in cultured human epidermal keratinocytes. Mutat Res (Netherlands), Oct 1993, 294(3) p235-45.
- ★ Momeni AZ, Aminjavaheri M Skin manifestations of mustard gas in a group of 14 children and teenagers: a clinical study. Int J Dermatol (United States), Mar 1994, 33(3): p184-7.
- ★ Momeni AZ, Enshaeih S, Meghdadi M, et al. Skin manifestations of mustard gas. A clinical study of 535 patients exposed to mustard gas. Arch Dermatol (United States), Jun 1992, 128(6): p775-80.
- Monteiro-Riviere NA, Inman AO Ultrastructural characterization of sulfur mustard-induced vesication in isolated perfused porcine skin. Microsc Res Tech (United States), May 1 1997, 37(3) p229-41.
- ★ Moore DW, Keeler JR Mustard agent poisoning: pathophysiology and nursing implications. Crit Care Nurse (United States), Dec 1993, 13(6) p62-8.
- ★ Mrozowsky B. Bacteriological determination of samples collected in gas warfare of Iran. Arch Belg. 1984; Suppl:282-3.
- ★ Newman-Taylor AJ, Morris AJ Experience with mustard gas casualties [letter] [see comments] Lancet (England), Jan 26 1991, 337(8735) p242.

- ★ Nishimoto Y, Yamakido M, Ishioka S, Shigenobu T, Yukutake M. Epidemiological studies of lung cancer in Japanese mustard gas workers. *Princess Takamatsu Symp.* 1987;18:95-101.
- ★ Niu T, Matijasevic Z, Austin-Ritchie P, et al. A 32P-postlabeling method for the detection of adducts in the DNA of human fibroblasts exposed to sulfur mustard. *Chem Biol Interact (Ireland)*, Mar 8 1996, 100(1) p77-84.
- ★ Noort D, Hulst AG, Trap HC, et al. Synthesis and mass spectrometric identification of the major amino acid adducts formed between sulphur mustard and haemoglobin in human blood. *Arch Toxicol (Germany)*, 1997, 71(3) p171-8.
- ★ Noort D, Verheij ER, Hulst AG, et al. Characterization of sulfur mustard induced structural modifications in human hemoglobin by liquid chromatography-tandem mass spectrometry. *Chem Res Toxicol (United States)*, Jun 1996, 9(4) p781-7.
- ★ Noort D, Hulst AG, de Jong LP, et al. Alkylation of human serum albumin by sulfur mustard in vitro and in vivo: mass spectrometric analysis of a cysteine adduct as a sensitive biomarker of exposure. *Chem Res Toxicol (United States)*, Aug 1999, 12(8): p715-21.
- Pant SC, Vijayaraghavan R. Histomorphological and histochemical alterations following short-term inhalation exposure to sulfur mustard on visceral organs of mice. *Biomed Environ Sci (United States)*, Sep 1999, 12(3) p201-13.
- ★ Pauser G, Aloy A, Carvana M, Graninger W, Havel M, Koller W, Mutz N. Lethal intoxication by wargases on Iranian soldiers. Therapeutic interventions on survivors of mustard gas and mycotoxin immersion. *Arch Belg.* 1984;Suppl:341-51.
- ★ Petrali JP, Oglesby-Megee S. Toxicity of mustard gas skin lesions. *Microsc Res Tech (United States)*, May 1 1997, 37(3): p221-8.
- Petrali JP, Oglesby SB, Hamilton TA, et al. Comparative morphology of sulfur mustard effects in the hairless guinea pig and a human skin equivalent. *J Submicrosc Cytol Pathol (Italy)*, Jan 1993, 25(1) p113-8.
- Pham MQ, Harvey SP, Weigand WA, et al. Reactor comparisons for the biodegradation of thioglycol, a product of mustard gas hydrolysis. *Appl Biochem Biotechnol (United States)*, Spring 1996, 57-58 p779-89.
- ★ Pierard GE, Dowlati A, Dowlati Y, et al. Chemical warfare casualties and yperite-induced xerodermod. *Am J Dermatopathol (United States)*, Dec 1990, 12(6) p565-70.
- ★ Pleyer U, Sherif Z, Baatz H, et al. Delayed mustard gas keratopathy: clinical findings and confocal microscopy. *Am J Ophthalmol (United States)*, Oct 1999, 128(4): p506-7.
- ★ Pour-Jafari H. Secondary sex ratios in progenies of Iranian chemical victims. *Vet Hum Toxicol (United States)*, Oct 1994, 36(5): p475-6.
- ★ Pour-Jafari H, Moushtaghi AA. Alterations of libido in gased Iranian men. *Vet Hum Toxicol (United States)*, Dec 1992, 34(6): p547.
- ★ Rall DP, Pechura CM. Effects on health of mustard gas [letter] *Nature (England)*, Dec 2 1993, 366(6454) p398-9.
- ★ Ray P, Ali ST. Protease in normal human epidermal keratinocytes. *Drug Chem Toxicol (United States)*, Aug 1998, 21(3) p319-27.
- ★ Rees J, Harper P, Ellis F, et al. Mustard gas casualties [letter; comment] *Lancet (England)*, Feb 16 1991, 337(8738) p430.
- ★ Requena L, Requena C, Sanchez M, et al. Chemical warfare. Cutaneous lesions from mustard gas. *J Am Acad Dermatol (United States)*, Sep 1988, 19(3): p529-36.
- ★ Rice P, Brown RF, Lam DG, et al. Dermabrasion--a novel concept in the surgical management of sulphur mustard injuries. *Burns (England)*, Feb 2000, 26(1) p34-40.
- Riviere JE, Brooks JD, Williams PL, et al. Toxicokinetics of topical sulfur mustard penetration, disposition, and vascular toxicity in isolated perfused porcine skin. *Toxicol Appl Pharmacol (United States)*, Nov 1995, 135(1) p25-34.
- ★ Rohrbaugh DK, Yang YC, Ward JR. Identification of degradation products of 2-chloroethyl ethyl sulfide by gas chromatography-mass spectrometry. *J Chromatogr (Netherlands)*, Aug 5 1988, 447(1) p165-9.
- ★ Ruhl CM, Park SJ, Danisa O, et al. A serious skin sulfur mustard burn from an artillery shell. *J Emerg Med (United States)*, Mar-Apr 1994, 12(2) p159-66.
- ★ Sandelowsky I, Simon GA, Bel P, et al. NI-(2-hydroxyethylthioethyl)-4-methyl imidazole (4-met-1-

- imid-thiodiglycol) in plasma and urine: a novel metabolite following dermal exposure to sulphur mustard [letter] Arch Toxicol (Germany), 1992, 66(4) p296-7.
- Sasser LB, Miller RA, Kalkwarf DR, et al. Subchronic toxicity evaluation of sulfur mustard in rats. J Appl Toxicol (England), Jan-Feb 1996, 16(1): 5-13.
- ★ Sawyer TW, Risk D Effect of lowered temperature on the toxicity of sulphur mustard in vitro and in vivo. Toxicology (Ireland), May 3 1999, 134(1) p27-37.
- Sawyer TW Characterization of the protective effects of L-nitroarginine methyl ester (L-NAME) against the toxicity of sulphur mustard in vitro. Toxicology (Ireland), Nov 2 1998, 131(1) p21-32.
- Sawyer TW Modulation of sulfur mustard toxicity by arginine analogues and related nitric oxide synthase inhibitors in vitro. Toxicol Sci (United States), Nov 1998, 46(1) p112-23.
- Sawyer TW, Hancock JR, D'Agostino PA L-thiocitrulline: A potent protective agent against the toxicity of sulphur mustard in vitro. Toxicol Appl Pharmacol (United States), Aug 1998, 151(2) p340-6.
- Sawyer TW, Lundy PM, Weiss MT Protective effect of an inhibitor of nitric oxide synthase on sulphur mustard toxicity in vitro. Toxicol Appl Pharmacol (United States), Nov 1996, 141(1) p138-44.
- ★ Schnurr PP, Friedman MJ, Green BL Post-traumatic stress disorder among World War II mustard gas test participants. Mil Med (United States), Mar 1996, 161(3) p131-6.
- Sawyer TW, Wilde PE, Rice P, et al. Toxicity of sulphur mustard in adult rat lung organ culture. Toxicology (Ireland), Jun 26 1995, 100(1-3) p39-49.
- ★ Schnurr PP, Ford JD, Friedman MJ, et al. Predictors and outcomes of posttraumatic stress disorder in World War II veterans exposed to mustard gas. J Consult Clin Psychol (United States), Apr 2000, 68(2) :p258-68.
- ★ Schnurr PP, Ford JD, Friedman MJ, et al. PTSD in WWII mustard gas test participants preliminary. Ann N Y Acad Sci (United States), Jun 21 1997, 821 p425-9.
- ★ Schoene K, Bruckert HJ, Schreiber G, et al. A method for correlating skin exposure to S-mustard vapor with skin damage. Am Ind Hyg Assoc J (United States), Nov 1989, 50(11) p569-73.
- Shih ML, Korte WD, Smith JR, et al. Analysis and stability of the candidate sulfur mustard decontaminant S-330. J Appl Toxicol (England), Dec 1999, 19 Suppl 1 pS89-95.
- Shih ML, Korte WD, Smith JR, et al. Reactions of sulfides with S-330, a potential decontaminant of sulfur mustard in formulations. J Appl Toxicol (England), Dec 1999, 19 Suppl 1 pS83-8.
- ★ Shin S, Choi DS, Kim YB, et al. The release of lysosomal arylsulfatase from liver lysosomes exposed to 2-chloroethylsulfide. Chem Biol Interact (Ireland), Aug 18 1995, 97(3): p229-38.
- ★ Skurnik Y, Baniel J, Shemer J.[Effects of mustard gas in chemical warfare]. Harefuah. 1985 Nov;109(9): 240-2. Hebrew.
- ★ Smith KJ, Hurst CG, Moeller RB, et al. Sulfur mustard: its continuing threat as a chemical warfare agent, the cutaneous lesions induced, progress in understanding its mechanism of action, its long-term health effects, and new developments for protection and therapy. J Am Acad Dermatol (United States), May 1995, 32(5 Pt 1) p765-76.
- ★ Smith KJ, Skelton HG, Martin JL, et al. CO<sub>2</sub> laser debridement of sulphur mustard (bis-2-chloroethyl sulphide) induced cutaneous lesions accelerates production of a normal epidermis with elimination of cytological atypia. Br J Dermatol (England), Oct 1997, 137(4) p590-4.
- ★ Smith CN, Lindsay CD, Upshall DG Presence of methenamine/glutathione mixtures reduces the cytotoxic effect of sulphur mustard on cultured SVK-14 human keratinocytes in vitro. Hum Exp Toxicol (England), May 1997, 16(5) p247-53.
- Smith KJ, Skelton HG, Hobson DW, et al. Cutaneous histopathologic features in weanling pigs after exposure to three different doses of liquid sulfur mustard. Am J Dermatopathol (United States), Oct 1996, 18(5) p515-20.
- Smith KJ, Graham JS, Moeller RB, et al. Histopathologic features seen in sulfur mustard induced cutaneous lesions in hairless guinea pigs. J Cutan Pathol (Denmark), Jun 1995, 22(3) p260-8.
- Snider TH, Matthews MC, Braue EH Jr Model for assessing efficacy of topical skin protectants against sulfur mustard vapor using hairless guinea pigs. J Appl Toxicol (England), Dec 1999, 19 Suppl 1 pS55-8.

- ★ Solberg Y, Alcalay M, Belkin M Ocular injury by mustard gas. *Surv Ophthalmol (United States)*, May-Jun 1997, 41(6) p461-6.
- ★ Sohrabpour H. Clinical manifestations of chemical agents on Iranian combatants during Iran-Iraq conflict. *Arch Belg (1984;Suppl)*:291-7.
- ★ Soman SM, Babu SR Toxicodynamics of sulfur mustard. *Int J Clin Pharmacol Ther Toxicol (Germany, West)*, Sep 1989, 27(9) p419-35.
- Spoo JW, Monteiro-Riviere NA, Riviere JE Detection of sulfur mustard bis (2-chloroethyl) sulfide and metabolites after topical application in the isolated perfused porcine skin flap. *Life Sci (England)*, Mar 17 1995, 56(17) p1385-94.
- Sugendran K, Jeevaratnam K, Husain K, et al. Effects of topically applied sulphur mustard on tissue glycogen, blood glucose, lactate and pyruvate in mice. *Indian J Physiol Pharmacol (India)*, Jul 1992, 36(3) p219-21.
- Sun J, Wang YX, Sun MJ Apoptosis and necrosis induced by sulfur mustard in HeLa cells. *Chung Kuo Yao Li Hsueh Pao (China)*, May 1999, 20(5) p445-8.
- ★ Thomsen AB, Eriksen J, Smidt-Nielsen K Chronic neuropathic symptoms after exposure to mustard gas: a long-term investigation. *J Am Acad Dermatol (United States)*, Aug 1998, 39(2Pt 1): p187-90.
- ★ Tokuoka S. [Early cancer and related changes in the bronchial epithelium of former mustard gas workers]. *Gan To Kagaku Ryoho*. 1985 Mar;12(3 Pt 2):708-13. Japanese.
- ★ Tokuoka S, Hayashi Y, Inai K, Egawa H, Aoki Y, Akamizu H, Eto R, Nishida T, Ohe K, Kobuke T, et al. Early cancer and related lesions in the bronchial Epithelium in former workers of mustard gas factory. *Acta Pathol Jpn*. 1986 Apr;36(4):533-42.
- van der Schans GP, Scheffer AG, Mars-Groenendijk RH, et al. Immunochemical detection of adducts of sulfur mustard to DNA of calf thymus and human white blood cells. *Chem Res Toxicol (United States)*, May-Jun 1994, 7(3) p408-13.
- Varma SD, Devamanoharan PS, Ali AH, et al. Half mustard (CEES) induced damage to rabbit cornea: attenuating effect of taurine-pyruvate-alpha- etoglutarate-pantothenate mixture. *J Ocul Pharmacol Ther (United States)*, Oct 1998, 14(5): p423-8.
- ★ Varma SD, Devamanoharan PS, Ali AH, et al. Corneal damage by half mustard (2-chloroethyl ethyl sulfide, CEES) in vitro preventive studies: a histologic and electron microscopic evaluation. *J Ocul Pharmacol Ther (United States)*, Oct 1998, 14(5) p413-21.
- ★ Vena GA, Foti C, Grandolfo M, et al. Contact irritation associated with airborne contact irritation from mustard gas. *Contact Dermatitis (Denmark)*, Aug 1994, 31(2): p130-1.
- Venkateswaran N, Malhotra RC, Venkateswaran KS Degradation of bacteriophage lambda deoxyribonucleic acid in vitro by sulfur mustard. *Biochem Mol Biol Int (Australia)*, Oct 1994, 34(3) p429-35.
- Venkateswaran KS, Neeraja V, Sugendran K, et al. Dose dependent effects on lymphoid organs following a single dermal application of sulphur mustard in mice. *Hum Exp Toxicol (England)*, Apr 1994, 13(4) p247-51.
- ★ Venkateswaran KS, Venkateswaran N Antibodies to sulfur mustard [letter; comment] *Immunol Lett (Netherlands)*, Oct-Nov 1992, 34(2) p173-6.
- Vijayaraghavan R Modifications of breathing pattern induced by inhaled sulphur mustard in mice. *Arch Toxicol (Germany)*, 1997, 71(3) p157-64.
- ★ Vindevoghel L, Capdevila C, Binder P, et al. Cytotoxicity of sulphur mustard on a human keratinocyte cell line: direct effects compared to conditioned-medium effects. *Toxicol Lett (Netherlands)*, May 1994, 71(3) p227-34.
- ★ Vycudil W. Detection of mustard gas bis(2-chloroethyl)-sulfide in urine. *Forensic Sci Int*. 1985 Jun-Jul;28(2):131-6.
- ★ Vycudil W Detection of bis(2-chloroethyl)-sulfide (Yperite) in urine by high resolution gas chromatography-mass spectrometry. *Forensic Sci Int (Switzerland)*, Sep 1987, 35(1): p67-71.
- ★ Watson AP, Griffin GD Toxicity of vesicant agents scheduled for destruction by the Chemical Stockpile Disposal Program. *Environ Health Perspect (United States)*, Nov 1992, 98 p259-80.
- ★ Wils ER, Hulst AG, de Jong AL, et al. Analysis of thiodiglycol in urine of victims of an alleged attack with mustard gas. *J Anal Toxicol (United States)*, Nov-Dec 1985, 9(6): p254-7.
- ★ Wils ER, Hulst AG, van Laar J Analysis of thiodiglycol in urine of victims of an alleged attack with

- mustard gas, Part II. *J Anal Toxicol (United States)*, Jan-Feb 1988, 12(1): p15-9.
- Wilde PE, Upshall DG Cysteine esters protect cultured rodent lung slices from sulphur mustard. *Hum Exp Toxicol (England)*, Nov 1994, 13(11) p743-8.
- ★ Wormser U, Brodsky B, Green BS, et al. Protective effect of povidone-iodine ointment against skin lesions induced by sulphur and nitrogen mustards and by non-mustard vesicants. *Arch Toxicol (Germany)*, 1997, 71(3) p165-70.
- ★ Wulf HC, Aasted A, Darre E, Niebuhr E. Sister chromatid exchanges in fishermen exposed to leaking mustard gas shells. *Lancet*. 1985 Mar 23;1(8430):690-1.
- ★ Yamakido M, Nishimoto Y, Shigenobu T, Onari K, Satoh C, Goriki K, Fujita M. Study of genetic effects of sulphur mustard gas on former workers of Ohkunojima Poison Gas Factory and their offspring. *Hiroshima J Med Sci*. 1985 Sep;34(3):311-22.
- ★ Yanagida J, Hozawa S, Ishioka S, et al. Somatic mutation in peripheral lymphocytes of former workers at the Okunojima poison gas factory. *Jpn J Cancer Res (Japan)*, Dec 1988, 79(12) p1276-83.
- ★ Yang ZX. [Cutaneous injuries by mustard gas in 48 cases]. *Chung Hua Wai Ko Tsa Chih*. 1983 Feb;21(2): 110-2. Chinese.
- Yourick JJ, Clark CR, Mitcheltree LW Niacinamide pretreatment reduces microvesicle formation in hairless guinea pigs cutaneously exposed to sulfur mustard. *Fundam Appl Toxicol (United States)*, Oct 1991, 17(3) p533-42.
- Zachariae H [Mustard gas should not be investigated as a treatment protocol] *Sygeplejersken (Denmark)*, Aug 10 1988, 88(32) p24.
- Zaman-Saroya S, Vaughan FL, Bernstein IA The effect of 2,2'-dichlorodiethyl sulfide on DNA synthesis of a murine stratified keratinocyte culture system. *Chem Biol Interact (Netherlands)*, Sep 28 1992, 84(2) p133-42.
- Zlotogorski A, Goldenhersh M, Shafran A A model for quantitative measurement of sulfur mustard skin lesions in the rabbit ear. *Toxicology (Ireland)*, Jun 27 1997, 120(2) p105-10.
- Zhang Z, Riviere JE, Monteiro-Riviere NA Evaluation of protective effects of sodium thiosulfate, cysteine, niacinamide and indomethacin on sulfur mustard-treated isolated perfused porcine skin. *Chem Biol Interact (Ireland)*, Jun 14 1995, 96(3): p249-62.