

3 Research

1) Intra-group Research Project

- (1) Research on health effect of nanoparticle (Group of Optimization of Work Environment)
- (2) Research on employability of aged workers (Group of Health Support)
- (3) Internationally collaborated research on asbestos-related problems

2) IIES Research Conference (Orion Seminar)



3) Research Achievement

M-Song, Y-S Li, Y Ootsuyama, H Kasai, K Kawai et al.: *Free Radic Biol Med*, 47: 41-46, 2009

H Kasai, K Kawai: *Chem Res Toxicol*, 22:984-989, 2009

K Kawai, Y-S Li, M-F Song, H Kasai: *Bioorg Med Chem Lett*, 20:260-265, 2010

H Kasai, M Maekawa, K Kawai et al.: *Ind Health*, 43:699-701, 2005

M Maekawa, K Kawai, Y Takahashi et al.: *Chem Res Toxicol*, 19:130-138, 2006

K Kawai, K Matsuno, H Kasai,: *Mutat Res* 603(2):186-192, 2006

K Kawai, P-H Chou, T Matsuda, et al.,: *Chem Res Toxicol*, 23(3):630-636, 2010

Morimoto Y, Kobayashi N, Shinohara N et al.: *J Occup Health*, 2010 Jun 10 (e-pub)

Morimoto Y, Hirohashi M, Ogami A et al.: *Part Fibre Toxicol*, Mar 14;7:4, 2010

Kumashiro M.: *Promotion of Work Ability Towards Productive Aging, Selected papers of the 3rd International Symposium on Work Ability, Vietnam, CRC Press, Netherland, 2009*

Idota N, Horie S, Tsutsui T, Inoue J: Temporary threshold shifts at 1500 and 2000 Hz induced by loud voice signals communicated through earphones at pinball industry. *Ann Occup Hyg*, Jun 28, 2010 (e-pub)

Nagano C, Tsutsui T, Monji K, Sogabe Y, Idota N, Horie S: Technique for continuously monitoring core body temperatures to prevent heat stress disorders in workers engaged in physical labor. *J Occup Health*, 52(3):167-75, 2010.

Le GV, Takahashi K et al.: National use of asbestos in relation to economic development. *Environ Health Perspect*, 118(1):116-9, 2010.

Lin RT, Takahashi K, et al.: Ecological association between asbestos-related diseases and historical asbestos consumption: an international analysis. *Lancet*, 369(9564):844-9, 2007.

Igisu H., Kinoshita Y.: Magnetic resonance for evaluation of toxic encephalopathies: implications from

animal experiments. *Neurotoxicology*, 28(2):252-6, 2007

Sumizawa T., Igisu H.: Suppression of acrylamide toxicity by carboxyfullerene in human neuroblastoma cells in vitro. *Arch Toxicol*, 83:817-24, 2009

Igisu H.: Haemolysis of human erythrocytes by pentachlorophenol and its suppression by albumin. *Br J Ind Med* 50:378-9, 1993

Igisu H et al.: Control of working environment, operation and health care of workers in PCB waste. *Dioxin* 2007, 69:666-9, 2007

Terunuma N, Ide R, Higashi T, et al: Cross-sectional study on respiratory effect of toner exposure. *Human & Experimental Toxicology*, 28:325-330, 2009.

Kitamura H, Ide R, Higashi T, et al: Cross-sectional study on respiratory effect of toner-exposed work in manufacturing plants, Japan: pulmonary function, blood cells, and biochemical markers, *Human & Experimental Toxicology*, 28:331-338, 2009