

## 2 . 2 . 1 0 誌上発表及び口頭発表

### 2 . 2 . 1 0 . 1 誌上発表 ( 査読あり )

- Ishido M., Suzuki J. (2010) Inhibition by rotenone of mesencephalic neural stem-cell migration in a neurosphere assay in vitro. *Toxicology in Vitro*, doi:10.1016/j.tiv.2009.11.005
- Ishido M., Suzuki J. (2010) Quantitative analyses of inhibitory effects of bisphenol A on neural stem-cell migration using a neurosphere assay in vitro. *J. Health Sci.*, in press
- Tin-Tin-Win-Shwe, Nakajima D., Fujimaki H. (2010) Can T-cell deficiency affect spatial learning ability following toluene exposure?. *Neuroimmunomodulation*, 17, 132-134
- Tin-Tin-Win-Shwe, Tsukahara S., Yamamoto S., Fukushima A., Kunugita N., Arashidani K., Fujimaki H. (2010) Up-regulation of neurotrophin-related gene expression in mouse hippocampus following low-level toluene exposure. *NeuroToxicology*, 31, 85-93
- Tin-Tin-Win-Shwe, Kunugita N., Yamamoto S., Arashidani K., Fujimaki H. (2010) Strain differences influence NMDA receptor subunit gene expression in olfactory bulb of an allergic mouse model following toluene exposure. *Neuroimmunomodulation*, in press, doi:10.1159
- 藤巻秀和 (2010) 健康影響と感受性. 大気環境学会誌 (印刷中)
- Ishido M. (2009) Effects of p-nitrotoluene on cultured mesencephalic neural stem cells. *J. Health Sci.*, 55 (1), 114-118
- Ishido M. (2009) Evaluation of neurotoxicity of environmental chemicals using neural stem cells and neuroblastoma cells. *Animal cell Technol.*, 16, 43-46
- Koike E, Inoue KI, Yanagisawa R, Takano H. (2009) Di-(2-ethylhexyl) phthalate affects immune cells from atopic prone mice in vitro. *Toxicology*, 259 (1/2), 54-60
- Tsukahara S. (2009) Sex differences and roles of sex steroids in apoptosis of sexually dimorphic nuclei of preoptic area in postnatal rats. *J. Neuroendocrinol.*, 21 (4), 370-376
- Tsukahara S., Nakajima D., Kuroda Y., Hojo R., Kageyama S., Fujimaki H. (2009) Effects of maternal toluene exposure on testosterone levels in fetal rats. *Toxicol. Lett.*, 185 (2), 79-84
- Tin-Tin-Win-Shwe, Mitsushima D., Yamamoto S., Funabashi T., Fujimaki H. (2009) Strain differences in extracellular amino acid neurotransmitter levels in the hippocampi of major histocompatibility complex congenic mice in response to toluene exposure. *Neuroimmunomodulation*, 16(3), 185-190
- Tin-Tin-Win-Shwe, Hojo R., Mitsushima D., Nakajima D., Yamamoto S., Fujimaki H. (2009) Establishment of a mouse model to assess brain neurotransmitter level and learning performance simultaneously following toxic chemical exposure: using in vivo microdialysis and schedule-controlled operant behavior. *J. UOEH*, 31(1), 1-11
- Tin-Tin-Win-Shwe, Kunugita N., Yamamoto S., Arashidani K., Fujimaki H. (2009) A potential role of hippocampal memory function-related gene expression in developmental neurotoxicity of toluene. *Eur. J. Neurol.*, 16, 324
- Nakajima D., Tsukahara S., Hojo R., Kageyama S., Goto S., Shiraishi H., Shiraishi F., Fujimaki H. (2009) Measurement of toluene concentrations in the blood of fetuses of pregnant rats exposed to low concentration toluene using headspace-solid phase micro extraction-gas chromatography-mass spectrometry. *J. Health Sci.*, 55 (1), 50-55
- Nishimura N., Nishimura H., Ito T., Miyata C., Izumi K., Fujimaki H., Matsumura F. (2009) Dioxin-induced up-regulation of the active form of vitamin D is the main cause for its inhibitory action on osteoblast activities leading to developmental bone toxicity. *Toxicol. Appl. Pharm.*, 236, 301-309
- Fujimaki H., Tin-Tin-Win-Shwe, Yamamoto S., Nakajima D., Goto S. (2009) The expression of nerve growth factor in mice lung following low-level toluene exposure. *Toxicol. Lett.*, 191, 240-245
- Fujimaki H., Tin-Tin-Win-Shwe, Yamamoto S., Nakajima D., Goto S. (2009) Role of CD4(+) T cells in the modulation of neurotrophin production in mice exposed to low-level toluene. *Immunopharm. Immunotox.*, 31, 146-149
- Fujimaki H., Tin-Tin-Win-Shwe, Kunugita N., Yamamoto S., Arashidani K. (2009) Strain differences influence synaptic plasticity-related gene expression in olfactory bulb of a mouse model of allergy following toluene exposure. *Eur. J. Neurol.*, 16, 566

- Yamamoto S., Tin-Tin-Win-Shwe, Ahmed S., Kobayashi T., Fujimaki H. (2006) Effect of ultrafine carbon black particles on lipoteichoic acid-induced early pulmonary inflammation in BALB/c mice. *Toxicol. Appl. Pharmacol.*, 213, 256-266
- Yamamoto S., Tin-Tin-Win-Shwe, Yoshida Y., Kunugita N., Arashidani K., Fujimaki H. (2009) Children's Immunology, what can we learn from animal studies (2): Modulation of systemic Th1/Th2 immune response in infant mice after prenatal exposure to low-level toluene and toll-like receptor(TLR) 2 ligand. *J. Toxicol. Sci.*, 34 (Spec.Issue 2), SP341-SP348
- Yamamoto S., Tin-Tin-Win-Shwe, Yoshida Y., Kunugita N., Arashidani K., Fujimaki H. (2009) Suppression of Th1- and Th2-type immune responses in infant mouse spleen after prenatal and postnatal exposure to low-level toluene and peptidoglycan. *Inhal. Toxicol.*, 21 (9), 793-802
- Ishido M. (2008) The modification of biocellular chemical reactions by environmental physicochemicals. *Prog. Theor. Phys.*, ((Suppl.173)), 124-133
- Ito T, Inouye K, Nohara K, Tohyama C, Fujimaki H (2008) TCDD exposure exacerbates atopic dermatitis-related inflammation in NC/Nga mice. *Toxicol. Lett.*, 177, 31-37
- Koike E, Takano H, Inoue KI, Yanagisawa R. (2008) Accelerated differentiation of bone marrow-derived dendritic cells in atopic prone mice. *Int. Immunopharmacol.*, 8 (-1314), 1737-1743
- Shibuya K, Nishimura N, Suzuki J, Tohyama C, Naganuma A, Satoh M (2008) Role of metallothionein as a protective factor against radiation carcinogenesis. *The Journal of Toxicological Sciences*, 33(5), 651-655
- 塚原伸治, 石堂正美, 黒河佳香, 藤巻秀和 (2008) 揮発性有機化合物および農薬の発達期曝露による中枢神経系への影響についての調査研究. *J. Jpn. Soc. Atmos. Environ.*, 43 (3), 180-190
- Tin-Tin-Win-Shwe, Mitsushima D., Yamamoto S., Fukushima A., Funabashi T., Kobayashi T., Fujimaki H. (2008) Changes in neurotransmitter levels and proinflammatory cytokine mRNA expressions in the mice olfactory bulb following nanoparticle exposure. *Toxicol. Appl. Pharmacol.*, 226(2), 192-198
- 中島大介, 塚原伸治, 影山志保, 白石不二雄, 藤巻秀和 (2008) 胎児・小児への影響を考慮した VOC 研究の現状と展開. *Indoor Environ.*, 11 (2), 103-109
- Nishimura N., Matsumura F., Vogel C.F.A., Nishimura H., Yonemoto J., Yoshioka W., Tohyama C. (2008) Critical role of cyclooxygenase-2 activation in pathogenesis of hydronephrosis caused by lactational exposure of mice to dioxin. *Toxicol. Appl. Pharmacol.*, 231, 374-383
- 北條理恵子, 黒河佳香, 塚原伸治, 中島大介, 藤巻秀和 (2008) オペラント学習法を用いたマウスの VOC ガス検知閾値の計測. *J. Jpn. Assoc. Odor Environ.*, 39 (3), 186-191
- Yamamoto S., Tin-Tin-Win-Shwe, Mitsushima D., Fujitani Y., Hirano S., Fujimaki H. (2009) Analysis of neurotoxic effect of nanoparticle-rich diesel exhaust on a mouse brain. *Eur. J. Neurol.*, 16, 325
- Yanagisawa R, Takano H, Inoue KI, Koike E, Sadakane K, Ichinose T. (2008) Effects of maternal exposure to Di-(2-ethylhexyl) phthalate during fetal and/or neonatal periods on atopic dermatitis in male offspring. *Environ. Health Perspect.*, 116 (9), 1136-1141
- Adachi T., Satoh M., Pramanik R., Kuroda S., Ishido M., Imoto M. (2007) Region-dependent differences and alterations of protective thiol compound levels in cultured astrocytes and brain tissues. *Biol. Pharm. Bull.*, 29(7), 1466-1469
- Ahmed S., Tsukahara S., Tin-Tin-Win-Shwe, Yamamoto S., Kunugita N., Arashidani K., Fujimaki H. (2007) Effects of low-level formaldehyde exposure on synaptic plasticity-related gene expression in the hippocampus of immunized mice. *J. Neuroimmunol.*, 186(1-2), 104-111
- Ahmed S., Tin-Tin-Win-Shwe, Yamamoto S., Tsukahara S., Kunugita N., Arashidani K., Fujimaki H. (2007) Increased hippocampal mRNA expression of neuronal synaptic plasticity related genes in mice chronically exposed to toluene at a low-level human occupational-exposure. *Neurotoxicology*, 28, 168-174
- Ishido M. (2007) Melatonin inhibits maneb-induced aggregation of alpha-synuclein in rat pheochromocytoma cells. *J.*

Pineal Res., 42, 125-130

Ishido M., Yonemoto J., Morita M. (2007) Mesencephalic neurodegeneration in the orally administered bisphenol A-caused hyperactive rats. *Toxicol. Lett.*, 173, 66-72

石堂正美 (2007) 環境毒性の分子生物学. *物性研究*, 88 (4), 572-579

Inoue K., Takano H., Ichinose T., Tomura S., Yanagisawa R., Sakurai M., Sumi D., Cho A.K., Hiyoshi K., Kumagai Y. (2007) Effects of naphthoquinone on airway responsiveness in the presence or absence of antigen in mice. *Arch. Toxicol.*, 81, 575-581

Inoue K., Takano H., Yanagisawa R., Sakurai M., Abe S., Yoshino S., Yamaki K., Yoshikawa T. (2007) Effects of components derived from diesel exhaust particles on lung physiology related to antigen. *Immunopharmacol. Immunotoxicol.*, 29, 403-412

Takano, H., Yanagisawa, R., Inoue, K. (2007) Components of diesel exhaust particles diversely enhance a variety of respiratory diseases related to infection or allergy -Extracted organic chemicals and the residual particles after extraction differently affect respiratory diseases-. *J. Clin. Biochem. Nutr.* 40, 101-107

Tsukahara S. (2007) Increased Fos immunoreactivity in suprachiasmatic nucleus before luteinizing hormone surge in estrogen-treated ovariectomized female rats. *Neuroendocrinology*, 83(5/6), 303-312

Tin-Tin-Win-Shwe, Mitsushima D., Nakajima D., Ahmed S., Yamamoto S., Tsukahara S., Kakeyama M., Goto S., Fujimaki H. (2007) Toluene induces rapid and reversible rise of hippocampal glutamate and taurine neurotransmitter levels in mice. *Toxicol. Lett.*, 168, 75-82

Tin-Tin-Win-Shwe, Yamamoto S, Nakajima D., Furuyama A., Fukushima A., Ahmed S., Goto S., Fujimaki H. (2007) Modulation of neurological related allergic reaction in mice exposed to low-level toluene. *Toxicol. Appl. Pharmacol.*, 222(1), 17-24

Tin-Tin-Win-Shwe, Tsukahara S., Ahmed S., Fukushima A., Yamamoto S., Kakeyama M., Nakajima D., Goto S., Kobayashi T., Fujimaki H. (2007) Athymic nude mice are insensitive to low-level toluene-induced up-regulation of memory-related gene expressions in the hippocampus. *Neurotoxicology*, 28(5), 957-964

Fujimaki H., Yamamoto S., Tin-Tin-Win-Shwe, Hojo R., Sato F., Kunugita N., Arashidani K. (2007) Effect of long-term exposure to low-level toluene on airway inflammatory response in mice. *Toxicol. Lett.*, 168, 132-139

Vogel, C., Nishimura, N., Sciallo, E., Wong, P., Li, W., Matsumura, F., Nishimura, H. (2007) Modulation of the chemokines KC and MCP-1 by 2,3,7,8-Tetrachlorodibenzo-p-dioxin in mice. *Arch. Biochem. Biophys.* 461, 169-175

Maekawa F., Nakamori T., Uchimura M., Fujiwara K., Yada T., Tsukahara S., Kanamatsu T., Tanaka K., Ohki-Hamazaki H. (2007) Activation of cholecystinin neurons in the dorsal pallium of the telencephalon is indispensable for the acquisition of chick imprinting behavior. *J. Neurochem.*, 102, 5, 1645-1657

Masuo Y., Ishido M., Morita M., Sawa F., Nagashima K., Niki E. (2007) Behavioral characteristics and gene expression in the hyperactive wiggling (Wig) rat. *Eur. J. Neurosci.*, 25, 3659-3666

増尾好則, 石堂正美 (2007) 環境ホルモン *Clin. Neurosci.*, 25(8), 874-876

Ishido M. (2006) DNA array technology in analyses for environmental factors- health interactions. *Current Topics Pharmacol.*, 9, 91-96

Sari D.K., Kuwahara S., Tsukamoto Y., Hori H., N. Kunugita, K. Arashidani, H. Fujimaki, F. Sasaki (2006): Effects of Subchronic Exposure to Low Concentration of Toluene on the Hypothalamo-Pituitary-Adrenal Gland Axis of Female Mice. *J. Jpn. Soc. Atmos. Environ.*, 41:38-43.

Takano H, Yanagisawa R, Inoue K, Ichinose T, Sadakane K, Yoshikawa T. (2006) Di-(2-ethylhexyl) phthalate enhances atopic dermatitis-like skin lesions in mice. *Environ. Health Perspect.*, 114(8), 1266-1269

Tsukahara S., Kakeyama M., Toyofuku Y. (2006) Sex differences in the level of Bcl-2 family proteins and caspase-3 activation in the sexually dimorphic nuclei of the preoptic area in postnatal rats. *J. Neurobiol.*, 66(13), 1411-1419

- Tsukahara S., Yamamoto S., Tin-Tin-Win-Shwe, Ahmed S., Kunugita N., Arashidani K., Fujimaki H. (2006) Inhalation of low-level formaldehyde increases the Bcl-2/Bax expression ratio in the hippocampus of immunologically sensitized mice. *Neuroimmunomodulation*, 13(2), 63-68
- Tin-Tin-Win-Shwe, Yamamoto S., Ahmed S., Kakeyama M., Kobayashi T., Fujimaki H. (2006) Brain cytokine and chemokine mRNA expression in mice induced by intranasal instillation with ultrafine carbon black. *Toxicol. Lett.*, 163, 153-160
- Nakajima D., Tin-Tin-Win-Shwe, Kakeyama M., Fujimaki H., Goto S. (2006) Determination of toluene in brain of freely moving mice using solid-phase microextraction technique. *Neurotoxicology*, 27, 615-618
- Nishimura N., Yonemoto J., Nishimura H., Tohyama C. (2006) Localization of cytochrome P450 1A1 in a specific region of hydronephrotic kidney of rat neonates lactationally exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicology*, 227(1/2), 117-126
- Fujimaki H., Kurokawa Y., Yamamoto S., Satoh M. (2006) Distinct requirements for interleukin-6 in airway inflammation induced by diesel exhaust in mice. *Immunopharmacol. Immunotoxicol.*, 28, 703-714
- 藤巻秀和, 市川眞澄, 佐々木文彦, 嵐谷奎一 (2006) シックハウス症候群の発症-中枢神経と揮発性化学物質. *臨床免疫・アレルギー科*, 46(2), 182-187
- Maekawa F., Fujiwara K., Tsukahara S., Yada T. (2006) Pituitary adenylate cyclase-activating polypeptide neurons of the ventromedial hypothalamus project to the midbrain central gray. *Neuroreport*, 17, 2, 221-224
- Murayama R., Goto S., Nakajima D., Fujimaki H., Watanabe I., Arashidani K., Uchiyama I. (2006) Measurements of exposure concentrations of benzene, toluene and xylene and amounts of respiratory uptake. *J. UOEH*, 28, 173-183
- Yamaguchi T., Nakajima D., Ezoe Y., Fujimaki H., Shimada Y., Kozawa K., Arashidani K., Goto S. (2006) Measurement of volatile organic compounds (VOCs) in new residential buildings and VOCs behavior over time. *J. UOEH*, 28, 13-27

## 2.2.10.2 誌上発表(査読なし)

- 西村典子, 栗田尚佳, 吉岡亘, 窪田直人, 門脇孝, 遠山千春 (2009) ダイオキシン曝露によるグルコース応答性インスリン分泌異常についての体系的解析. *日衛誌*, 64 (2), 361
- 柳澤利枝, 小池英子, 井上健一郎, 高野裕久 (2009) フタル酸ジエチルヘキシルのアトピー性皮膚炎増悪影響. *臨床免疫・アレルギー科*, 52(4), 438-443
- 山元昭二, Tin-Tin-Win-Shwe, 藤巻秀和 (2009) 特集: 気道曝露(吸入, 気管内投与等)法を用いた動物実験モデル: 環境ナノ粒子の気道曝露によるマウス呼吸器系および脳神経系への影響. *アニテクス*, 21 (5), 16-21
- Ishido M., Morita M. (2008) Environmental evaluation of neurotoxicity of bisphenol A in a rat. In: *Persistent Organic Pollutants (POPs) Research in Asia*, 262-270
- Sone H., Miyabara Y, Fukuda T., Okura M., Ohsako S., Yonemoto J. (2008) Does maternal exposure to 2378-tetrachlorodibenzo-p-dioxin(TCDD) induce glutathione s-transferase-positive hepatic foci in adult rats?. In: *Persistent Organic Pollutants (POPs) Research in Asia*, 257-261
- 曾根秀子, 米元純三 (2008) 環境化学物質の子どもへの健康影響を探る - 男児生殖器異常症のインフォマテックスを用いた疾患感受性遺伝子の探索, 一塩基多型 SNP を指標として. *Biophilia*, 4 (2), 25-29
- 西村典子 (2008) 内分泌攪乱化学物質の骨形成への影響. *日本内分泌攪乱化学物質学会ニュースレター*, 10(3), 3
- 西村典子 (2008) 母体へのダイオキシン曝露が新生児に影響をもたらすメカニズム. *Biophilia*, 4(1), 30-34
- 藤巻秀和 (2008) ディーゼル排気微粒子のアジュバンド効果(質疑応答 公衆衛生). *日本医事新報*, 4395, 97-98
- 藤巻秀和 (2008) 粒子状物質と肺の免疫機能. *呼吸器科*, 14 (3), 191-197
- 柳澤利枝, 小池英子, 井上健一郎, 高野裕久 (2008) 環境汚染物質によるアトピー性皮膚炎の増悪. *資源環*

境対策, 44(5), 59-62

- Ishido M., Masuo Y., Niki E., Morita M. (2007) The long-term neuroeffects of neonatal bisphenol A treatment in adult rats. *Organohalogen Comp.*, 69, 2999-3001
- Nishimura N., Miyata C., Ito T., Izumi K., Fujimaki H., Nishimura H. (2007) Up-regulation of 25-hydroxyvitamin D3 1-hydroxylase and disruption of calcium metabolism by 2,3,7,8-tetrachlorodibenzo-p-dioxin in developing mouse kidney. *Organohalogen Compounds*, 69, 1079-1082
- 山元昭二 (2007) 環境ナノ粒子による健康影響, カーボンナノ粒子がグラム陽性菌細胞壁成分による肺の炎症反応に及ぼす影響. *岡山実験動物研究会報*, 24, 22-27
- Ahmed S., Tin-Tin-Win-Shwe, Yamamoto S., Tsukahara S., Kurokawa Y., Nakajima D., Goto S., Fujimaki H. (2006) Modulation of neural activity-related gene expression in the olfactory bulb of mice exposed to toluene. In: Tabira T., Yamamura T., Kira J. eds., 361-367
- Ishido M. (2006) Prevention by melatonin of maneb-induced mitochondrial dysfunction in rat pheochromocytoma cells. *Antioxidants* (Panglossi H.V. ed., Nova Sci. Publ., 207p.), 149-157
- 石堂正美 (2006) メラトニンの作用機構と機能., 1-4
- 西村典子 (2006) 周産期ダイオキシン曝露の生体影響-甲状腺への影響と毒性発現メカニズム-. *Endocr. Disrupter News Lett.*, 9(2), 6
- 西村典子 (2006) 非ダイオキシン様 PCB のリスク評価. *日本リスク研究学会誌*, 16(1), 37-40
- 西村典子, 米元純三, 西村久雄, Matsumura F., 遠山千春 (2006) 授乳期ダイオキシン曝露によるマウスにおける水腎症発症のメカニズム. *J. Toxicol. Sci.*, 31Suppl., S126
- 藤巻秀和, 市川眞澄, 佐々木文彦, 嵐谷奎一 (2006) シックハウス症候群の発症 - 中枢神経と揮発性化学物質. *臨床免疫・アレルギー科*, 46, 182-187

### 2.2.10.3 書籍

- Ishido M. (2009) Environmental contributions to attention deficit hyperactivity disorders. *Attention Deficit Hyperactivity Disorder*, Nova Sci. Publ., 223-228
- Sone H., Imanishi S., Nagano R., Akanuma H., Fukuda T., Ohsako S. (2009) Gene expression signatures of environmental chemicals in cancer and in developmental disorders. In: *Biophys. Soc. China(BSC)ed.*, 14th Biennial Meet. Soc. Free Radical Res. Int., Medimond S.r.l.,
- Ishido M. (2007) Apoptosis induced by environmental factors. In: Lawrence B. S. ed., *Cell Apoptosis: Regulation and Environmental Factors*, Nova Sci. Publ., 141-156
- 藤巻秀和 (2007) 環境化学物質による感染・アレルギーの修飾. *生体防御医学事典*, (鈴木和 監修、朝倉書店、376p) 114-118
- Ishido M. (2006) Interaction of melatonin with environmental factors. *Melatonin: From Molecules to therapy Chapter 51.* (Pandi-Perumal, S.R. ed), 849-861
- 塚原伸治 (2006) 下位脳幹の性差「脳の性分化 (編集: 山内兄人, 新井康充)」*裳華房*, 84-92
- 塚原伸治, 掛山正心 (2006) 神経核形成のメカニズム (アポトーシス)「脳の性分化 (編集: 山内兄人, 新井康充)」*裳華房*, 107-121

### 2.2.10.4 口頭発表

- 国外: 31件  
国内: 143件