

- \* Negishi T, Tominaga T, Ishii Y, Kyuwa S, Hayasaka I, Kuroda Y, Yoshikawa Y: Comparative study on toxicokinetics of bisphenol A in F344 rats, monkeys (*Macaca fascicularis*), and chimpanzees (*Pan troglodytes*). *Exp Anim*, 53: 391-394, 2004
- Nishikawa H, Kato T, Tanida K, Hiasa A, Tawara I, Ikeda H, Ikarashi Y, Wakasugi H, Kronenberg M, Nakayama T, Taniguchi M, Kuribayashi K, Old LJ, Shiku H: CD4<sup>+</sup> CD25<sup>+</sup> T cells responding to serologically defined autoantigens suppress antitumor immune responses. *Proc Natl Acad Sci USA*, 100: 10902-10906, 2003
- Ota T, Takeda K, Akiba H, Hayakawa Y, Ogasawara K, Ikarashi Y, Miyake S, Wakasugi H, Yamamura T, Kronenberg M, Raulet DH, Kinoshita K, Yagita H, Smyth MJ, Okumura K: IFN- $\gamma$ -mediated negative feedback regulation of NKT cell function by CD94/NKG2. *Blood*, 106: 184-192, 2005
- Shimizu A, Sasaki H, Aoyagi K, Yoshida M, Kato K, Heike Y, Ikarashi Y, Shirakawa K, Takaue Y, Miyajima A, Terada M, Nagai H, Wakasugi H: The mouse natural killer T cell-associated antigen recognized by U5A2-13 monoclonal antibody is intercellular adhesion molecule-1. *Immunol Lett*, 92: 227-235, 2004
- Shirakawa K, Furuhata S, Watanabe I, Hayase H, Shimizu A, Ikarashi Y, Yoshida T, Terada M, Hashimoto D, Wakasugi H: Induction of vasculogenesis in breast cancer models. *Br J Cancer*, 87: 1454-1461, 2002

200401249A (別冊集)

厚生労働科学研究 化学物質リスク研究事業 (平成16年度) 資料

研究課題名：内分泌かく乱化学物質の生体影響メカニズム  
(低用量効果・複合効果を含む) に関する総合研究

(H16-化学-002)

# 研究成果出版物抜刷集

## I

主任研究者：井上 達 (国立医薬品食品衛生研究所)

本資料は、頭記厚生労働科学研究事業の中間成果として、班員の研究成果の主だった刊行論文を収集したものである。

平成17年3月

## 主任・分担研究者によって学術誌に出版された主な研究成果リスト

(\*は抜粋集収載)

### 第I分冊

- \* Adachi J, Mori Y, Matsui S, Matsuda T: Comparison of gene expression patterns between 2,3,7,8-tetrachlorodibenzo-p-dioxin and a natural arylhydrocarbon receptor ligand, indirubin. *Toxicol Sci*, 80: 161-169, 2004
- \* Adachi J, Mori Y, Matsui S, Takigami H, Fujino J, Kitagawa H, Miller CA, III, Kato T, Saeki K, Matsuda T: Indirubin and indigo are potent aryl hydrocarbon receptor ligands present in human urine. *J Biol Chem*, 276: 31475-31478, 2001
- \* Akahira J, Inoue T, Suzuki T, Ito K, Konno R, Sato S, Moriya T, Okamura K, Yajima A, Sasano H: Progesterone receptor isoforms A and B in human epithelial ovarian carcinoma: immunohistochemical and RT-PCR studies. *Br J Cancer*, 83: 1488-1494, 2000
- Akahira J, Sugihashi Y, Suzuki T, Ito K, Niikura H, Moriya T, Nitta M, Okamura H, Inoue S, Sasano H, Okamura K, Yaegashi N: Decreased expression of 14-3-3 sigma is associated with advanced disease in human epithelial ovarian cancer: its correlation with aberrant DNA methylation. *Clin Cancer Res*, 10: 2687-2693, 2004
- Akahira JI, Aoki M, Suzuki T, Moriya T, Niikura H, Ito K, Inoue S, Okamura K, Sasano H, Yaegashi N: Expression of EBAG9/RCAS1 is associated with advanced disease in human epithelial ovarian cancer. *Br J Cancer*, 90: 2197-2202, 2004
- Aou S, Inoue T, Fujimoto T, Mizuno M, Oomura Y, Kubo K, Arai O: Chemical impacts on higher brain functions. *Brain-Inspired IT*, 1: 101-104, 2004
- Asada-Mikami R, Heike Y, Harada Y, Kanai S, Ikarashi Y, Kato K, Shirakawa K, Takaue Y, Abe T, Wakasugi H: Increased expansion of V $\alpha$ 24<sup>+</sup> T cells derived from G-CSF-mobilized peripheral blood stem cells as compared to peripheral blood mononuclear cells following  $\alpha$ -galactosylceramide stimulation. *Cancer Sci*, 94: 383-388, 2003
- Azuma M, Kato K, Ikarashi Y, Asada-Mikami R, Maruoka H, Takaue Y, Saito A, Wakasugi H: Cytokines production of U5A2-13-positive T cells by stimulation with glycolipid  $\alpha$ -galactosylceramide. *Eur J Immunol*, 30: 2138-2146, 2000
- Bassett MH, Suzuki T, Sasano H, De Vries CJ, Jimenez PT, Carr BR, Rainey WE: The orphan nuclear receptor NGFIB regulates transcription of 3 $\beta$ -hydroxysteroid dehydrogenase. implications for the control of adrenal functional zonation. *J Biol Chem*, 279: 37622-37630, 2004
- \* Bassett MH, Suzuki T, Sasano H, White PC, Rainey WE: The orphan nuclear receptors NURR1 and NGFIB regulate adrenal aldosterone production. *Mol Endocrinol*, 18: 279-290, 2004
- \* Buchanan DL, Ohsako S, Tohyama C, Cooke PS, Iguchi T: Dioxin inhibition of estrogen-induced mouse uterine epithelial mitogenesis involves changes in cyclin

- and transforming growth factor- $\beta$  expression. *Toxicol Sci*, 66: 62-68, 2002
- \* Bulun SE, Zeitoun KM, Takayama K, Sasano H: Molecular basis for treating endometriosis with aromatase inhibitors. *Hum Reprod Update*, 6: 413-418, 2000
  - \* Bulun SE, Zeitoun KM, Takayama K, Sasano H: Estrogen biosynthesis in endometriosis: molecular basis and clinical relevance. *J Mol Endocrinol*, 25: 35-42, 2000
  - \* Chai Z, Brereton P, Suzuki T, Sasano H, Obeyesekere V, Escher G, Saffery R, Fuller P, Enriquez C, Krozowski Z: 17  $\beta$ -hydroxysteroid dehydrogenase type XI localizes to human steroidogenic cells. *Endocrinology*, 144: 2084-2091, 2003
  - \* Cunha GR, Forsberg J-G, Golden R, Haney A, Iguchi T, Newbold R, Swan S, Welshons W: New approaches for estimating risk from exposure to diethylstilbestrol. *Environ Health Perspect*, 107(S4): 625-630, 1999
- Deb S, Amin S, Imir AG, Yilmaz MB, Suzuki T, Sasano H, Bulun SE: Estrogen regulates expression of tumor necrosis factor receptors in breast adipose fibroblasts. *J Clin Endocrinol Metab*, 89: 4018-4024, 2004
- Endo T, Abe S, Seidler HB, Nagaoka S, Takemura T, Utsuyama M, Kitagawa M, Hirokawa K: Expression of IAP family proteins in colon cancers from patients with different age groups. *Cancer Immunol Immunother*, 53: 770-776, 2004
- \* Franco OE, Onichi T, Yamakawa K, Arima K, Yanagawa M, Sugimura Y, Kawamura J: Microgen-activated protein kinase pathway is involved in androgen-independent PSA gene expression in LNCaP cells. *Prostate*, 56: 319-325, 2003
- Fujikawa S, Matsuura H, Kanai M, Fumino M, Ishii K, Arima K, Shiraishi T, Sugimura Y: The natural history of human prostate gland: morphometric and histopathological analysis of Japanese men. *Prostate*, in press, 2005
- \* Fujimoto N, Igarashi K, Kanno J, Honda H, Inoue T: Identification of estrogen-responsive gene in the GH3 cell line by cDNA microarray analysis. *J Steroid Biochem Mol Biol*, 91: 121-129, 2004
- Fujino T, Yamazaki Y, Largaespada DA, Jenkins NA, Copleland NG, Hirokawa K, Nakamura T: Inhibition of myeloid differentiation by Hoxa9, Hoxb8, and Meis homeobox genes. *Exp Hematol*, 29: 856-863, 2001
- \* Fukamachi K, Han BS, Kim CK, Takasuka N, Matsuoka Y, Matsuda E, Yamazaki T, Tsuda H, Possible enhancing effects of atrazine and nonylphenol on 7, 12-dimethylbenz[a]anthracene-induced mammary tumor development in human c-Ha-ras proto-oncogene transgenic rats. *Cancer Science*, 95: 404-410, 2004
- \* Fukazawa Y, Iguchi T, Bern HA: Mouse anococcygeus muscle: sexual dimorphism and responsiveness to sex hormones. *J Endocrinol*, 152: 229-237, 1997
- Fukui Y, Oono T, Cananiols J-P, Nakao K, Hirokawa K, Inayoshi A, Sanui T, Kanellopoulos J, Iwata E, Noda M, Katsuiki M, Kourilsky P, Sasazuki M: Diversity of T cell repertoire by a single peptide ligand is critically affected by its amino acid residue at a

- T cell receptor-contact. Proc Natl Acad Sci USA, 97: 13760-13765, 2000
- \* Fukushima S, Wanibuchi H, Morimura K, Iwai S, Nakae D, Kishida H, Tsuda H, Uehara N, Imaida K, Shirai T, Tatsmatsu M, Tsukamoto T, Hirose M, Furukawa F: Existence of a threshold for induction of aberrant crypt foci in the rat colon with low doses of 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine. Toxicol Sci, 80: 109-114, 2004
- \* Gurates B, Sebastian S, Yang S, Zhou J, Tamura M, Fang Z, Suzuki T, Sasano H, Bulun SE: WT1 and DAX-1 inhibit aromatase P450 expression in human endometrial and endometriotic stromal cells. J Clin Endocrinol Metab, 87: 4369-4377, 2002
- Hanabuchi S, Ohashi T, Koya Y, Kato H, Tskemura F, Hirokawa K, Yoshiki T, Yagita H, Okumura K, Kannagi M Development of human T cell leukemia virus type-1-transformed tumors in rats following suppression of T cell immunity by CD80 and CD86. J Virol, 74: 428-435, 2000
- Hirasawa G, Takeyama J, Sasano H, Fukushima K, Suzuki T, Muramatu Y, Darnel AD, Kaneko C, Hiwatashi N, Toyota T, Nagura H, Krozowski ZS: 11Beta-hydroxysteroid dehydrogenase type II and mineralocorticoid receptor in human placenta. J Clin Endocrinol Metab, 85: 1306-1309, 2000
- Hirokawa K, Utsuyama M: Animal models and possible human application of immunological restoration in the elderly. Mech Ageing Dev, 123: 1055-1063, 2002
- Hirokawa K, Utsuyama M: Search for factors determining early decline of thymic function. Geriat Gerontol Internatl, 4: S251-253, 2004
- Honma W, Kamiyama Y, Yoshinari K, Sasano H, Shimada M, Nagata K, Yamazoe Y: Enzymatic characterization and interspecies difference of phenol sulfotransferases, ST1A forms. Drug Metab Dispos, 29: 274-281, 2001
- Honma W, Shimada M, Sasano H, Ozawa S, Miyata M, Nagata K, Ikeda T, Yamazoe Y: Phenol sulfotransferase, ST1A3, as the main enzyme catalyzing sulfation of troglitazone in human liver. Drug Metab Dispos, 30: 944-949, 2002
- \* Hoshi M, Morimura K, Wanibuchi H, Wei M, Okochi E, Ushijima T, Takaoka, K, Fukushima S: No-observed effect levels for carcinogenicity and for in vivo mutagenicity of a genotoxic carcinogen. Toxicol Sci, 81: 273-279, 2004
- \* Iguchi K, Otsuka T, Usui S, Ishii K, Onishi T, Sugimura Y, Hirano K: Zinc and metallothionein levels and expression of zinc transporters in androgen-independent subline of LNCaP cells. J Androl, 25: 154-161, 2004
- \* Iguchi K, Usui S, Inoue T, Sugimura Y, Tatematsu M, Hirano K: High-level expression of zinc transporter-2 in the rat lateral and dorsal prostate. J Androl, 23: 819-824, 2002
- Iguchi T: Cellular effects of early exposure to sex hormones and antihormones. Int Rev Cytol, 139:1-57, 1992
- \* Iguchi T, Fukazawa Y, Bern HA: Effects of sex hormones on oncogene expression in the

- vagina and on the development of sexual dimorphism of the pelvis and anococcygeus muscle. *Environ Health Perspect*, 103 (Suppl. 7): 79-82, 1995
- Iguchi T, Fukazawa Y, Tani N, Sato T, Ozawa S, Takasugi N, Shuin T, Kubota Y, Petrow V: Effects of some hormonally active steroids upon the growth of LNCaP human prostate tumour cells in vitro. *Cancer J*, 3: 184-191, 1990
- Iguchi T, Fukazawa Y, Uesugi Y, Takasugi N Polyovular follicles in mouse ovary exposed neonatally to diethylstilbestrol in vivo and in vitro. *Biol Reprod*, 43: 478-484, 1990
- Iguchi T, Tani N, Sato T, Fukatsu N, Ohta Y: Developmental changes in mouse placental cells from several stages of pregnancy in vivo and in vitro. *Biol Reprod*, 48: 188-196, 1993
- \* Iguchi T, Watanabe H, Katsu Y: Developmental effects of estrogenic agents on mice, fish and frogs: a mini review. *Horm Behav*, 40: 248-251, 2001
- Iguchi T, Uesugi Y, Takasugi N, Petrow V: Quantitative analysis of the development of genital organs from the urogenital sinus of the foetal male mouse treated prenatally with a 5 $\alpha$ -reductase inhibitor. *J Endocrinol*, 128: 395-401, 1991
- Ikarashi Y, Iizuka A, Koshidaka Y, Heike Y, Takaue Y, Yoshida M, Kronenberg M, Wakasugi H: Phenotypical and functional alterations during the expansion phase of invariant Va14 natural killer T (Va14iNKT) cells in mice primed with  $\alpha$ -galactosylceramide. *Immunology*, in press, 2005
- Ikarashi Y, Kato K, Yoshida M, Wakasugi H: U1B3.3 monoclonal antibody recognizes a precursor of NK1.1+ cytotoxic T cells generated by interleukin-2. *Pro Jap Acad*, 78: 91-95, 2002
- \* Ikarashi Y, Mikami R, Bendelac A, Terme M, Chaput N, Terada M, Tursz T, Angevin E, Lemonnier FA, Wakasugi H, Zitvogel L: Dendritic cell maturation overrules H-2D-mediated natural killer T (NKT) cell inhibition: critical role for B7 in CD1d-dependent NKT cell interferon  $\gamma$  production. *J Exp Med*, 194: 1179-1186, 2001
- \* Ikeda T, Kasai M, Suzuki J, Kuroyama H, Seki S, Utsuyama M, Hirokawa K: Multimerization of the receptor activator of nuclear factor- $\kappa$ B ligand (RANKL) isoforms and regulation of osteoclastogenesis. *J Biol Chem*, 278: 47217-47222, 2003
- Ikeda T, Kasai M, Utsuyama M, Hirokawa K: Determination of 3 isoforms of RANKL and their differential expression in bone and thymus. *Endocrinology*, 142: 1419-1426, 2001
- \* Ikeda T, Utsuyama M, Hirokawa K: Expression profiles of RANKL, RANK and OPG mRNA in aged and ovariectomized rat bones. *J Bone Miner Res*, 16: 1416-1425, 2001
- \* Inoue T: Hormonally active agents and plausible relationships to adverse effects on human health. *Pure Appl Chem*, 75: 2555-2561, 2003
- \* Inoue T: Introduction: Toxicogenomics - a New Paradigm of Toxicology. In

“Toxicogenomics” (T. Inoue and W.D. Pennie, eds.) Springer-Verlag Tokyo, pp3-11, 2003

Inoue T: Potential applications of toxicogenomics in risk assessment. In: *Evolving Genetics and Its Global Impact. The Fifth Princess Chulabhorn International Science Congress, Bangkok, pp255-257, 2004*

- \* Inoue T, Akahira J, Suzuki T, Darnel AD, Kaneko C, Takahashi K, Hatori M, Shirane R, Kumabe T, Kurokawa Y, Satomi S, Sasano H: Progesterone production and actions in the human central nervous system and neurogenic tumors. *J Clin Endocrinol Metab*, 87: 5325-5331, 2002
- \* Inoue T, Igarashi K, Sekizawa J: Health hazards of endocrine-disrupting chemicals on humans as examined from the standpoint of their mechanism of action. *Japan Med Assoc J*, 46: 97-102, 2003
- \* Ishibashi H, Suzuki T, Suzuki S, Moriya T, Kaneko C, Takizawa T, Sunamori M, Handa M, Kondo T, Sasano H: Sex steroid hormone receptors in human thymoma. *J Clin Endocrinol Metab*, 88: 2309-2317, 2003
- Ishii K, Otsuka T, Iguchi K, Usui S, Yamamoto H, Sugimura Y, Yosikawa K, Hayward SW, Hirano K: Evidence that the prostate-specific antigen (PSA)/Zn<sup>2+</sup> axis may play a role in human prostate cancer cell invasion. *Cancer Lett*, 207:79-87, 2004
- Ito A, Yamaguchi K, Onogawa T, Unno M, Suzuki T, Nishio T, Suzuki T, Sasano H, Abe T, Tamai M: Distribution of organic anion-transporting polypeptide 2 (oatp2) and oatp3 in the rat retina. *Invest Ophthalmol Vis Sci*, 43: 858-863, 2002
- Ito A, Yamaguchi K, Tomita H, Suzuki T, Onogawa T, Sato T, Mizutamari H, Mikkaichi T, Nishio T, Suzuki T, Unno M, Sasano H, Abe T, Tamai M: Distribution of rat organic anion transporting polypeptide-E (oatp-E) in the rat eye. *Invest Ophthalmol Vis Sci*, 44: 4877-4884, 2003
- \* Ito K, Suzuki T, Moriya T, Utsunomiya H, Sugawara A, Konno R, Sato S, Sasano H: Retinoid receptors in the human endometrium and its disorders: a possible modulator of 17 beta-hydroxysteroid dehydrogenase. *J Clin Endocrinol Metab*, 86: 2721-2727, 2001
- \* Ito S, Takeyama K, Yamamoto A, Sawatsubashi S, Shirode Y, Kouzmenko A, Tabata T, Kato S: In vivo potentiation of human oestrogen receptor  $\alpha$  by Cdk7-mediated phosphorylation. *Genes to Cells*, 9: 983-992, 2004
- \* Kaaijk EM, Sasano H, Suzuki T, Beek JF, van Der Veen F: Distribution of steroidogenic enzymes involved in androgen synthesis in polycystic ovaries: an immunohistochemical study. *Mol Hum Reprod*, 6: 443-447, 2000
- Kaneda H, Takeda K, Ota T, Kaduka Y, Akiba H, Ikarashi Y, Wakasugi H, Kronenberg M, Kinoshita K, Yagita H, Okumura K: ICOS costimulates invariant NKT cell activation. *Biochem Biophys Res Commun*, 327: 201-207, 2005
- Kaneko M, Morimura K, Nishikawa T, Wanibuchi H, Takada N, Osugi H, Kinoshita H, Fukushima S: Different genetic alterations in rat forestomach tumors induced by

genotoxic and non-genotoxic carcinogens. *Carcinogenesis*, 23: 1729-1735, 2002

Kato K, Ikarashi Y, Sugahara T, Yasumoto A, Sancho D, Yoshida M, Takaue Y, Kobayashi Y, Sanchez-Madrid F, Wakasugi H: U5A2-13, an antigen originally found on mouse NK-like T cells, is an early inducible cell surface antigen during lymphoid activation. *Cell Immunol*, 221: 27-36, 2003

\* Kato C, Kitajima S, Saga Y, Kanno J, Horii I, Inoue T: Assessment of quantitative dual-parameter flow cytometric analysis for the evaluation of testicular toxicity using cyclophosphamide- and ethinyl-estradiol-treated rats. *J Toxicol Sci*, 27: 87-96, 2002

\* Katsu Y, Lubahn D, Iguchi T: Expression of novel C-type lectin in the mouse vagina. *Endocrinology*, 144: 2597-2605, 2003

\* Kawabata W, Suzuki T, Moriya T, Fujimori K, Naganuma H, Inoue S, Kinouchi Y, Kameyama K, Takami H, Shimosegawa T, Sasano H: Estrogen receptors (alpha and beta) and 17beta-hydroxysteroid dehydrogenase type 1 and 2 in thyroid disorders: possible in situ estrogen synthesis and actions. *Mod Pathol*, 16: 437-444, 2003

\* Kawai K, Nozaki T, Nishikata H, Aou S, Takii M, Kubo C: Aggressive behavior and serum testosterone concentration during the maturation process of male mice: the effects of fetal exposure to bisphenol A. *Env Health Perspect*, 111: 175-178, 2003

\* Kawanishi M, Matsuda T, Nakayama A, Takebe H, Matsui S, Yagi T: Molecular analysis of mutations induced by acrolein in human fibroblast cells using supF shuttle vector plasmids. *Mutat Res*, 417: 65-73, 1998

Kawanishi M, Matsuda T, Sasaki G, Yagi T, Matsui S, Takebe H: A spectrum of mutations induced by crotonaldehyde in shuttle vector plasmids propagated in human cells. *Carcinogenesis*, 19: 69-72, 1998

\* Kawanishi M, Takamura-Enya T, Ermawati R, Shimohara C, Sakamoto M, Matsukawa K, Matsuda T, Murahashi T, Matsui S, Wakabayashi K, Watanabe T, Tashiro HY, Yagi T: Detection of genistein as an estrogenic contaminant of river water in Osaka. *Environ Sci Technol*, 38: 6424-6429, 2004

\* Kawano H, Sato T, Yamada T, Matsumoto T, Sekine K, Watanabe T, Nakamura T, Fukuda T, Yoshimura K, Yoshizawa T, Aihara K, Yamamoto Y, Nakamichi Y, Metzger D, Chambon P, Nakamura K, Kawaguchi H, Kato S: Suppressive function of androgen receptor in bone resorption. *Proc Natl Acad Sci USA*, 100: 9416-9421, 2003

\* Kinoshita A, Wanibuchi H, Imaoka S, Ogawa M, Masuda C, Morimura K, Funae Y, Fukushima S: Formation of 8-hydroxydeoxy-guanosine and cell-cycle arrest in the rat liver via generation of oxidative stress by Phenobarbital: association with expression profiles of p21WAF1/Cip1, cyclin D1 and Ogg1. *Carcinogenesis*, 23: 341-349, 2002

\* Kinoshita A, Wanibuchi H, Morimura K, Wei M, Shen J, Imaoka S, Funae Y, Fukushima S, Phenobarbital at low dose exerts hormesis in rat hepato-carcinogenesis by reducing oxidative DNA damage, altering cell proliferation, apoptosis and gene expression.



Carcinogenesis, 24: 1389-1399, 2003

- \* Kitagawa H, Fujiki R, Yoshimura K, Mezaki Y, Uematus Y, Matsui D, Ogawa S, Unno K, Okubo M, Tokita A, Nakagawa T, Ito T, Ishimi Y, Nagasawa H., Matsumoto T, Yanagisawa J, Kato S: The chromatin remodeling complex WINAC targets a nuclear receptor to promoters and is impaired in Williams Syndrome. *Cell*, 113: 905-917, 2003
- \* Kitagawa H, Yanagisawa J, Fuse H, Ogawa S, Yogiashi Y, Okuno A, Nagasawa H, Nakajima T, Matsumoto T, Kato S: Ligand-selective potentiation of rat mineralocorticoid receptor activation function-1 (AF-1) by a CBP-containing histone acetyltransferase complex. *Mol Cell Biol*, 22: 3698-3706, 2002
- Kitagawa M, Utsuyama M, Kurata M, Yamamoto K, Yuasa Y, Ishikawa Y, Arai T, Hirokawa K: Cancer and aging. *Cancer Immunol Immunother*, 54: 623-634, 2005
- Kitagawa M, Yamaguchi S, Hasegawa M, Tanaka K, Sado T, Hirokawa K, Aizawa S: Friend leukemia virus infection enhances DNA damage-induced apoptosis of hematopoietic cells, causing lethal anemia in C3H hosts. *J Virol*, 77: 7790-7798, 2002
- Kojima H, Fukazawa Y, Sato T, Enari M, Tomooka Y, Matsuzawa A, Ohta Y, Iguchi T: Involvement of the TNF- $\alpha$  system and the Fas system in the induction of apoptosis of mouse mammary glands after weaning. *Apoptosis*, 1: 201-208, 1996
- \* Kouzmenko AP, Takeyama K, Ito S, Furutani T, Sawatsubashi S, Maki A, Suzuki E, Kawasaki Y, Akiyama T, Tabata T, Kato S: Wnt/ $\beta$ -catenin and estrogen signaling converge in vivo. *J Biol Chem*, 279: 40255-40258, 2004
- \* Kubo K, Arai O, Omura M, Watanabe R, Ogata R, Aou S: Low dose effects of bisphenol A on sexual differentiation of the brain and behavior in rats. *Neurosci Res*, 45: 345-356, 2003
- \* Kuramoto T, Morimura K, Yamashita S, Okochi E, Watanabe N, Ohta T, Ohki M, Fukushima S, Sugimura T, Ushijima T: Etiology-specific gene expression profiles in rat mammary carcinomas. *Cancer Res*, 62: 3592-3597, 2002
- Kuroda K, Yoshida K, Yoshimura M, Endo Y, Wanibuchi H, Fukushima S, Endo G: Microbial metabolite of dimethylarsinic acid is highly toxic and genotoxic. *Toxicol Applied Pharmacol*, 198: 345-353, 2004
- Kuwatani M, Ikarashi Y, Mineishi S, Asaka M, Wakasugi H: An irradiation-free nonmyeloablative bone marrow transplantation model: Importance of the balance between donor T-cell number and the intensity of conditioning. *Transplantation*, in press, 2005
- \* Lee JJ, Takei M, Hori S, Inoue Y, Harada Y, Tanosaki R, Kanda Y, Kami M, Makimoto A, Mineishi S, Kawai H, Shimosaka A, Heike Y, Ikarashi Y, Wakasugi H, Takaue Y, Hwang TJ, Kim HJ, Kakizoe T: The role of PGE(2) in the differentiation of dendritic cells: how do dendritic cells influence T-cell polarization and chemokine receptor expression? *Stem Cells*, 20: 448-459, 2002

- Lu L, Suzuki T, Yoshikawa Y, Murakami O, Miki Y, Moriya T, Bassett MH, Rainey WE, Hayashi Y, Sasano H: Nur-related factor 1 and nerve growth factor-induced clone B in human adrenal cortex and its disorders. *J Clin Endocrinol Metab*, 89: 4113-4118, 2004
- Maeda S, Suzuki S, Suzuki T, Endo M, Moriya T, Chida M, Kondo T, Sasano H: Analysis of intrapulmonary vessels and epithelial-endothelial interactions in the human developing lung. *Lab Invest*, 82: 293-301, 2002
- \* Matsuda T, Kawanishi M, Yagi T, Matsui S, Takebe H: Specific tandem GG to TT base substitutions induced by acetaldehyde are due to intra-strand crosslinks between adjacent guanine bases. *Nucleic Acids Res*, 26: 1769-1774, 1998
- Matsuda T, Terashima I, Matsumoto Y, Yabushita H, Matsui S, Shibutani S: Effective utilization of N2-ethyl-2'-deoxyguanosine triphosphate during DNA synthesis catalyzed by mammalian replicative DNA polymerases. *Biochemistry*, 38: 929-935, 1999
- \* Matsuda T, Yagi T, Kawanishi M, Matsui S, Takebe H: Molecular analysis of mutations induced by 2-chloroacetaldehyde, the ultimate carcinogenic form of vinyl chloride, in human cells using shuttle vectors. *Carcinogenesis*, 16: 2389-2394, 1995
- \* Matsui D, Sakari M, Sato T, Murayama A, Takada I, Kim M, Takeyama K, Kato S: Transcriptional regulation of the mouse steroid 5alpha-reductase type II gene by progesterone in brain. *Nucleic Acids Res*, 30: 1387-1393, 2002
- \* Matsuzaki S, Fukaya T, Uehara S, Murakami T, Sasano H, Yajima A: Characterization of messenger RNA expression of estrogen receptor-alpha and -beta in patients with ovarian endometriosis. *Fertil Steril*, 73: 1219-1225, 2000
- \* Matsuzaki S, Murakami T, Uehara S, Canis M, Sasano H, Okamura K: Expression of estrogen receptor alpha and beta in peritoneal and ovarian endometriosis. *Fertil Steril*, 75: 1198-1205, 2001
- Meng L, Zhou J, Sasano H, Suzuki T, Zeitoun KM, Bulun SE: Tumor necrosis factor alpha and interleukin 11 secreted by malignant breast epithelial cells inhibit adipocyte differentiation by selectively down-regulating CCAAT/enhancer binding protein alpha and peroxisome proliferator-activated receptor gamma: mechanism of desmoplastic reaction. *Cancer Res*, 61: 2250-2255, 2001
- \* Miki Y, Nakata T, Suzuki T, Darnel AD, Moriya T, Kaneko C, Hidaka K, Shiotsu Y, Kusaka H, Sasano H: Systemic distribution of steroid sulfatase and estrogen sulfotransferase in human adult and fetal tissues. *J Clin Endocrinol Metab*, 87: 5760-5768, 2002
- \* Miki Y, Suzuki T, Tazawa C, Blumberg B, Sasano H: Steroid and xenobiotic receptor (SXR), cytochrome P450 3A4 and multidrug resistance gene 1 in human adult and fetal tissues. *Mol Cell Endocrinol*, 231: 75-85, 2005
- \* Miki Y, Suzuki T, Tazawa C, Ishizuka M, Semba S, Gorai I, Sasano H: Analysis of gene expression induced by diethylstilbestrol (DES) in human primitive Mullerian duct cells using microarray. *Cancer Lett*, 220: 197-210, 2005

- Mitsui A, Hamuro J, Nakamura H, Kondo N, Hirayabashi Y, Ishizaki-Koizumi S, Hirakawa T, Inoue T, Yodoi J: Overexpression of human thioredoxin in transgenic mice controls oxidative stress and life span. *Antioxid Redox Signal*, 4: 693-696, 2002
- \* Miyagawa S, Katsu Y, Watanabe H, Iguchi T: Estrogen-independent activation of ErbBs signaling and estrogen receptor  $\alpha$  in the mouse vagina exposed neonatally to diethylstilbestrol. *Oncogene*, 23: 340-349, 2004
- \* Miyagawa S, Suzuki A, Katsu Y, Kobayashi M, Goto M, Handa H, Watanabe H, Iguchi T: Persistent gene expression in mouse vagina exposed neonatally to diethylstilbestrol. *J Mol Endocrinol*, 32: 663-677, 2004
- Moriya T, Sakamoto K, Sasano H, Kawanaka M, Sonoo H, Manabe T, Ito J: Immunohistochemical analysis of Ki-67, p53, p21, and p27 in benign and malignant apocrine lesions of the breast: its correlation to histologic findings in 43 cases. *Mod Pathol*, 13: 13-18, 2000
- Mune T, Morita H, Suzuki T, Takahashi Y, Isomura Y, Tanahashi T, Daido H, Yamakita N, Deguchi T, Sasano H, White PC, Yasuda K: Role of local 11 beta-hydroxysteroid dehydrogenase type 2 expression in determining the phenotype of adrenal adenomas. *J Clin Endocrinol Metab*, 88: 864-870, 2003
- Murakami M, Yamamura H, Suzuki T, Kang MG, Ohya S, Murakami A, Miyoshi I, Sasano H, Muraki K, Hano T, Kasai N, Nakayama S, Campbell KP, Flockerzi V, Imaizumi Y, Yanagisawa T, Iijima T: Modified cardiovascular L-type channels in mice lacking the voltage-dependent  $Ca^{2+}$  channel  $\beta_3$  subunit. *J Biol Chem*, 278: 43261-43267, 2003
- Muramatsu Y, Sugino N, Suzuki T, Totsune K, Takahashi K, Tashiro A, Hongo M, Oki Y, Sasano H: Urocortin and corticotropin-releasing factor receptor expression in normal cycling human ovaries. *J Clin Endocrinol Metab*, 86: 1362-1369, 2001
- \* Murayama A, Kim M, Yanagisawa J, Takeyama K, Kato S: Transrepression by a liganded nuclear receptor via a bHLH activator through co-regulator switching. *EMBO J*, 23: 1598-1608, 2004
- \* Nagao T, Wada K, Kuwagata M, Nakagomi M, Watanabe C, Yoshimura S, Saito Y, Usumi K, Kanno J: Intrauterine position and postnatal growth in Sprague-Dawley rats and ICR mice. *Reprod Toxicol*, 18: 109-120, 2004
- \* Nakajima T, Akiyama Y, Shiraishi J, Arai T, Yanagisawa Y, Ara M, Fukuda Y, Sawabe M, Saitoh K, Kamiyama R, Hirokawa K, Yuasa Y: Age-related hypermethylation of the hMLH1 promoter in gastric cancers. *Int J Cancer*, 94: 208-211, 2001
- Nakamura Y, Igarashi K, Suzuki T, Kanno J, Inoue T, Tazawa C, Saruta M, Ando T, Moriyama N, Furukawa T, Ono M, Moriya T, Ito K, Saito H, Ishibashi T, Takahashi S, Yamada S, Sasano H: E4F1, a novel estrogen-responsive gene in possible atheroprotection, revealed by microarray analysis. *Am J Pathol*, 165: 2019-2031, 2004
- Nakamura Y, Miki Y, Suzuki T, Nakata T, Darnel AD, Moriya T, Tazawa C, Saito H, Ishibashi T, Takahashi S, Yamada S, Sasano H: Steroid sulfatase and estrogen sulfotransferase

- in the atherosclerotic human aorta. *Am J Pathol*, 163: 1329-1339, 2003
- Nakamura Y, Suzuki T, Nakabayashi M, Endoh M, Sakamoto K, Mikami Y, Moriya T, Ito A, Takahashi S, Yamada S, Arai Y, Sasano H: In situ androgen producing enzymes in human prostate cancer. *Endocr Relat Cancer*, 12:101-107, 2005
- \* Nakamura Y, Suzuki T, Miki Y, Tazawa C, Senzaki K, Moriya T, Saito H, Ishibashi T, Takahashi S, Yamada S, Sasano H: Estrogen receptors in atherosclerotic human aorta: inhibition of human vascular smooth muscle cell proliferation by estrogens. *Mol Cell Endocrinol*, 219:17-26, 2004
- Nasu K, Kohsaka H, Nonomura Y, Terada Y, Ito H, Hirokawa K, Miyasaka N: Adenoviral transfer of cyclin-dependent kinase inhibitor genes suppresses collagen-induced arthritis in mice. *J Immunol*, 165: 7246-7252, 2000
- \* Negishi T, Kawasaki K, Suzaki S, Maeda H, Ishii Y, Kyuwa S, Kuroda Y, Yoshikawa Y: Behavioral alterations in response to fear-provoking stimuli and tranylcypromine induced by perinatal exposure to bisphenol A and nonylphenol in male rats. *Env Health Perspect*, 112: 1159-1164, 2004
- \* Negishi T, Tominaga T, Ishii Y, Kyuwa S, Hayasaka I, Kuroda Y, Yoshikawa Y: Comparative study on toxicokinetics of bisphenol A in F344 rats, monkeys (*Macaca fascicularis*), and chimpanzees (*Pan troglodytes*). *Exp Anim*, 53: 391-394, 2004
- Nishikawa H, Kato T, Tanida K, Hiasa A, Tawara I, Ikeda H, Ikarashi Y, Wakasugi H, Kronenberg M, Nakayama T, Taniguchi M, Kuribayashi K, Old LJ, Shiku H: CD4+ CD25+ T cells responding to serologically defined autoantigens suppress antitumor immune responses. *Proc Natl Acad Sci USA*, 100: 10902-10906, 2003
- \* Nishikawa T, Wanibuchi H, Ogawa M, Kinoshita A, Morimura K, Hiroi T, Funae Y, Kishida H, Nakae D, Fukushima S: Promoting effects of monomethylarsonic acid, dimethylarsinic acid and trimethylarsine oxide on induction of rat liver preneoplastic glutathione s-transferase placental form positive foci: a possible reactive species mechanism. *Int J Cancer*, 100: 136-139, 2002

## 第 II 分冊

- \* Ogawa T, Kitagawa M, Hirokawa K: Age-related changes of human bone marrow; an immunohistological estimation of T cells, B cells, macrophages, proliferative cells and apoptotic cells. *Mech Ageing Dev*, 117: 57-68, 2000
- \* Ohko Y, Iuchi K-I, Niwa C, Tatsuma T, Nakashima T, Iguchi T, Kubota Y, Fujishima A: 17 $\beta$ -Estradiol degradation by TiO<sub>2</sub> photocatalysis as a means of reducing estrogenic activity. *Environ Sci Technol*, 36: 4175-4181, 2002
- Ohta Y, Sato T, Iguchi T: Immunocytochemical localization of progesterone receptor in the reproductive tract of adult female rats. *Biol Reprod*, 48: 205-213, 1993
- \* Ohtake F, Takeyama K, Matsumoto T, Kitagawa H, Yamamoto Y, Nohara K, Tohyama C, Krust A, Mimura J, Chambon P, Yanagisawa J, Fujii-Kuriyama Y, Kato S: Modulation of oestrogen receptor signaling by association with the activated dioxin receptor. *Nature*, 423: 545-550, 2003
- \* Okada A, Ohta Y, Brody SL, Iguchi T: Epithelial c-jun and c-fos are temporally and spatially regulated by estradiol during neonatal rat oviduct differentiation. *J Endocrinol*, 182: 219-227, 2004
- \* Okada A, Ohta Y, Brody SL, Krust A, Chambon P, Iguchi T: Role of foxj1 and estrogen receptor alpha in ciliated epithelial cell differentiation of the neonatal oviduct. *J Mol Endocrinol*, 32: 615-625, 2004
- \* Okada A, Ohta Y, Buchanan DL, Sato T, Inoue S, Hori H, Muramatsu, Iguchi T: Changes in ontogenetic expression of estrogen receptor a and not of estrogen receptor b in the female rat reproductive tract. *J Mol Endocrinol*, 28: 87-97, 2002
- \* Okada A, Ohta Y, Inoue S, Hiroi H, Muramatsu M, Iguchi T: Expression of estrogen, progesterone and androgen receptors in the oviduct of developing, cycling and pre-implantation rats. *J Mol Endocrinol*, 30: 301-315, 2003
- \* Okada A, Sato T, Ohta Y, Buchanan DL, Iguchi T: Effect of diethylstilbestrol on cell proliferation and expression of epidermal growth factor in the developing female rat reproductive tract. *J Endocrinol*, 170: 539-554, 2001
- \* Omura M, Ogara R, Kubo K, Shimasaki Y, Aou S, Oshima Y, Tanaka A, Hirata M, Makita Y, Inoue N: Two-generation reproductive toxicity study of tributyltin chloride in male rats. *Toxicol Sci*, 64: 224-232, 2001
- \* Omura M, Shimasaki Y, Oshima Y, Nakayama K, Kubo K, Aou S, Ogata R, Hirata M, Inoue N: Distribution of tributyltin, dibutyltin and monobutyltin in the liver, brain, fat and neonate of rats - evaluation in two-generation toxicity study of tributyltin chloride. *Environ Sci*, 11: 123-132, 2004
- Ota T, Takeda K, Akiba H, Hayakawa Y, Ogasawara K, Ikarashi Y, Miyake S, Wakasugi H, Yamamura T, Kronenberg M, Raulet DH, Kinoshita K, Yagita H, Smyth MJ, Okumura K: IFN- $\gamma$ -mediated negative feedback regulation of NKT cell function by CD94/NKG2. *Blood*,

106: 184-192, 2005

- \* Parhar IS, Ogawa S, Sakuma Y: Three GnRH receptor types in laser-captured single cells of the cichlid pituitary display cellular and functional heterogeneity. *Proc Natl Acad Sci USA*, 102: 2204-2209, 2005
- \* Parhar IS, Ogawa S, Sakuma Y: Laser-captured single digoxigenin-labeled neurons of gonadotropin-releasing hormone types reveal a novel G protein-coupled receptor (GPR54) during maturation in cichlid fish. *Endocrinology*, 145: 3613-3618, 2004
- \* Parhar IS, Soga T, Ogawa S, Ogawa S, Pfaff DW, Sakuma Y: Nonmammalian gonadotropin-releasing hormone molecules in the brain of promoter transgenic rats. *Proc Natl Acad Sci USA*, 102: 5880-5885, 2005
- Pawelec G, Hirokawa K, Fulop T: Altered T cell signalling in ageing. *Mech Ageing Dev*, 122: 1613-1637, 2001
- Rainey WE, Carr BR, Sasano H, Suzuki T, Mason JI: Dissecting human adrenal androgen production. *Trends Endocrinol Metab*, 13: 234-239, 2002
- Romanenko A, Morimura K, Wei M, Zaparin W, Vozianov A, Fukushima S: DNA damage repair in bladder urothelium after the Chernobyl accident in Ukraine. *J Urol*, 168: 973-977, 2002
- \* Salim EI, Fukushima S: Chemopreventive potential of volatile oil from black cumin (*Nigella sativa* L.) seeds against rat colon carcinogenesis. *Nutri Cancer*, 45: 195-202, 2003
- Salim EI, Wanibuchi H, Morimura K, Murai T, Makino S, Nomura T, Fukushima S: Induction of tumors in the colon and liver of the immunodeficient (SCID) mouse by 2-amino-3-methylimidazo[4,5-f]quinoline (IQ)—modulation by long-chain fatty acids. *Carcinogenesis*, 23: 1519-1529, 2002
- Salim EI, Wanibuchi H, Morimura K, Wei M, Mitsuhashi M, Yoshida K, Endo G, Fukushima S: Carcinogenicity of dimethylarsinic acid in p53 heterozygous knockout and wild-type C57BL/6J mice. *Carcinogenesis*, 24: 335-342, 2003
- Saner KJ, Suzuki T, Sasano H, Pizzey J, Ho C, Strauss JF 3rd, Carr BR, Rainey WE: Steroid sulfotransferase 2A1 gene transcription is regulated by steroidogenic factor 1 and GATA-6 in the human adrenal. *Mol Endocrinol*, 19: 184-197, 2005
- \* Sato T, Matsumoto T, Kawano H, Watanabe T, Uematsu Y, Sekine K, Fukuda T, Aihara K, Krust A, Yamada T, Nakamichi Y, Yamamoto Y, Nakamura T, Yoshimura K, Yoshizawa T, Metzger D, Chambon P, Kato S: Brain masculinization requires androgen receptor function. *Proc Natl Acad Sci USA*, 101: 1673-1678, 2004
- \* Sato Y, Suzuki T, Hidaka K, Sato H, Ito K, Ito S, Sasano H: Immunolocalization of nuclear transcription factors, DAX-1 and COUP-TF II, in the normal human ovary: correlation with adrenal 4 binding protein/steroidogenic factor-1 immunolocalization during the menstrual cycle. *J Clin Endocrinol Metab*, 88: 3415-3420, 2003

- \* Sekizawa J, Suter G, Birnbaum L: Integrated human and ecological risk assessment : A case study of tributyltin and triphenyltin compounds. *J Hum Ecol Risk Assess*, 9: 325-342, 2003
- Shen J, Wanibuchi H, Salim EI, Wei M, Doi K, Yoshida K, Endo G, Morimura K, Fukushima S: Induction of glutathione S-transferase placental form positive foci in liver and epithelial hyperplasia in urinary bladder, but no tumor development in male Fischer 344 rats treated with monomethylarsonic acid for 104 weeks. *Toxicol Applied Pharmacol*, 193: 335-345, 2003
- \* Shen J, Wanibuchi H, Salim EI, Wei M, Kinoshita A, Yoshida K, Endo G, Fukushima S: Liver tumorigenicity of trimethylarsine oxide in male Fischer 344 rats-association with oxidative DNA damage and enhanced cell proliferation. *Carcinogenesis*, 24: 1827-1835, 2003
- \* Shimada N, Suzuki T, Inoue S, Kato K, Imatani A, Sekine H, Ohara S, Shimosegawa T, Sasano H: Systemic distribution of estrogen-responsive finger protein (Efp) in human tissues. *Mol Cell Endocrinol*, 218: 147-153, 2004
- Shimizu A, Sasaki H, Aoyagi K, Yoshida M, Kato K, Heike Y, Ikarashi Y, Shirakawa K, Takaue Y, Miyajima A, Terada M, Nagai H, Wakasugi H: The mouse natural killer T cell-associated antigen recognized by U5A2-13 monoclonal antibody is intercellular adhesion molecule-1. *Immunol Lett*, 92: 227-235, 2004
- Shiraishi J, Utsuyama M, Seki S, Akamatsu H, Sunamori M, Kasai M, Hirokawa K: Essential microenvironment for thymopoiesis is preserved in human adult and aged thymus. *Clin Develop Immunol*, 10: 53-59, 2003
- Shirakawa K, Furuhashi S, Watanabe I, Hayase H, Shimizu A, Ikarashi Y, Yoshida T, Terada M, Hashimoto D, Wakasugi H: Induction of vasculogenesis in breast cancer models. *Br J Cancer*, 87: 1454-1461, 2002
- \* Soga T, Ogawa S, Millar RP, Sakuma Y, Parhar IS: Localization of the three GnRH types and GnRH receptors in the brain of a cichlid fish: insights into their neuroendocrine and neuromodulator functions. *J Comp Neurol*, 487: 28-41, 2005
- Speiser PW, Susin M, Sasano H, Bohrer S, Markowitz J: Ovarian hyperthecosis in the setting of portal hypertension. *J Clin Endocrinol Metab*, 85: 873-877, 2000
- \* Sugihara K, Kitamura S, Yamada T, Okayama T, Ohta S, Yamashita K, Yasuda M, Fujii-Kuriyama Y, Saeki K, Matsui S, Matsuda T: Aryl hydrocarbon receptor-mediated induction of microsomal drug-metabolizing enzyme activity by indirubin and indigo. *Biochem Biophys Res Commun*, 318: 571-578, 2004
- \* Sukata T, Uwagawa S, Ozaki K, Ogawa M, Nishikawa T, Iwai S, Kinoshita A, Wanibuchi H, Imaoka S, Funae Y, Okuno Y, Fukushima S: Detailed low-dose study of 1,1-bis(p-chlorophenyl)-2,2,2-trichloroethane carcinogenesis suggests the possibility of a hormetic effect. *Int J Cancer*, 99: 112-118, 2002
- Sukata T, Uwagawa S, Ozaki K, Sumida K, Kikuchi K, Kushida M, Saito K, Morimura K,

- Oeda K, Okuno Y, Mikami N, Fukushima S: Alpha2-Macroglobulin: A novel cytochemical marker characterizing preneoplastic and neoplastic rat liver lesions negative for hitherto established cytochemical markers. *Am J Pathol*, 165: 1479-1488, 2004
- \* Suter G, Munns WR, Sekizawa J: Types of integration in risk assessment and management, and why they are needed. *J Hum Ecol Risk Assess*, 9: 273-280, 2003
- \* Suter G, Vermeire T, Munns WR, Sekizawa J: Framework for the integration of health and ecological risk assessment. *J Hum Ecol Risk Assess*, 9: 281-302, 2003
- \* Suzawa M, Takada I, Yanagisawa J, Ohtake F, Ogawa S, Yamauchi T, Kadowaki T, Takeuchi Y, Shibuya H, Gotoh Y, Matsumoto K, Kato S: Cytokines suppress adipogenesis and PPAR-gamma function through the TAK1/TAB1/NIK cascade. *Nature Cell Biol*, 5: 224-230, 2003
- \* Suzuki A, Enari M, Eguchi Y, Matsuzawa A, Nagata S, Tsujimoto Y, Iguchi T: Involvement of Fas in regression of vaginal epithelia after ovariectomy and during an estrous cycle. *EMBO J*, 15: 211-215, 1996
- \* Suzuki A, Goto Y, Iguchi T: Progression of PDMT is accompanied by lack of Fas and intense expression of Bcl-2 and PKC- $\epsilon$ . *Carcinogenesis*, 18: 883-887, 1997
- \* Suzuki A, Matsuzawa A, Iguchi T: Down regulation of Bcl-2 is the first step on Fas-mediated apoptosis of male reproductive tract. *Oncogene*, 13: 31-37, 1996
- Suzuki J, Ikeda T, Kuroyama H, Seki S, Kasai M, Utsuyama M, Tatsumi M, Uematsu H, Hirokawa K: Regulation of osteoclastogenesis by three human RANKL isoforms expressed in NIH3T3 cells. *Biochem Biophys Res Commun*, 314: 1021-1027, 2004
- Suzuki S, Koyama K, Darnel A, Ishibashi H, Kobayashi S, Kubo H, Suzuki T, Sasano H, Krozowski ZS: Dexamethasone upregulates 11 $\beta$ -hydroxysteroid dehydrogenase type 2 in BEAS-2B cells. *Am J Respir Crit Care Med*, 167: 1244-1249, 2003
- \* Suzuki T, Darnel AD, Akahira JI, Ariga N, Ogawa S, Kaneko C, Takeyama J, Moriya T, Sasano H: 5 $\alpha$ -reductases in human breast carcinoma: possible modulator of in situ androgenic actions. *J Clin Endocrinol Metab*, 86: 2250-2257, 2001
- \* Suzuki T, Inoue S, Kawabata W, Akahira J, Moriya T, Tsuchiya F, Ogawa S, Muramatsu M, Sasano H: EBAG9/RCAS1 in human breast carcinoma: a possible factor in endocrine-immune interactions. *Br J Cancer*, 85: 1731-1737, 2001
- \* Suzuki T, Miki Y, Moriya T, Shimada N, Ishida T, Hirakawa H, Ohuchi N, Sasano H: Estrogen-related receptor alpha in human breast carcinoma as a potent prognostic factor. *Cancer Res*, 64: 4670-4676, 2004
- \* Suzuki T, Mizuo K, Nakazawa H, Funae Y, Fushiki S, Fukushima S, Shirai T, Narita M: Prenatal and neonatal exposure to bisphenol-A enhances the central dopamine D1 receptor-mediated action in mice: Enhancement of the methamphetamine-induced abuse state. *Neuroscience*, 117: 639-644, 2003
- Suzuki T, Moriya T, Ariga N, Kaneko C, Kanazawa M, Sasano H: 17 $\beta$ -hydroxysteroid



- dehydrogenase type 1 and type 2 in human breast carcinoma: a correlation to clinicopathological parameters. *Br J Cancer*, 82: 518-523, 2000
- \* Suzuki T, Nakata T, Miki Y, Kaneko C, Moriya T, Ishida T, Akinaga S, Hirakawa H, Kimura M, Sasano H: Estrogen sulfotransferase and steroid sulfatase in human breast carcinoma. *Cancer Res*, 63:2762-2770, 2003
- Suzuki T, Sasano H, Andersson S, Mason JJ: 3beta-hydroxysteroid dehydrogenase /delta5-->4-isomerase activity associated with the human 17beta-hydroxysteroid dehydrogenase type 2 isoform. *J Clin Endocrinol Metab*, 85: 3669-3672, 2000
- \* Suzuki T, Takahashi K, Darnel AD, Moriya T, Murakami O, Narasaka T, Takeyama J, Sasano H: Chicken ovalbumin upstream promoter transcription factor II in the human adrenal cortex and its disorders. *J Clin Endocrinol Metab*, 85: 2752-2757, 2000
- Takahashi K, Lie F-C, Hirokawa K, Takahashi H: Expression of Foxp2, a gene involved in speech and language, in the developing and adult striatum. *J Neurosci Res*, 73: 61-72, 2003
- Takahashi K, Totsune K, Murakami O, Saruta M, Nakabayashi M, Suzuki T, Sasano H, Shibahara S: Expression of urocortin III/stresscopin in human heart and kidney. *J Clin Endocrinol Metab*, 89: 1897-1903, 2004
- Takahashi K, Totsune K, Murakami O, Sone M, Satoh F, Kitamuro T, Noshiro T, Hayashi Y, Sasano H, Shibahara S: Expression of melanin-concentrating hormone receptor messenger ribonucleic acid in tumor tissues of pheochromocytoma, ganglioneuroblastoma, and neuroblastoma. *J Clin Endocrinol Metab*, 86: 369-374, 2001
- \* Takahashi S, Suzuki S, Inaguma S, Cho YM, Ikeda Y, Hayashi N, Inoue T, Sugimura Y, Nishiyama N, Fujita T, Ushijima T, Shirai T: Down-regulation of Lsm1 is involved in human prostate cancer progression. *Br J Cancer*, 86: 940-946, 2002
- Takahashi S, Suzuki S, Inaguma S, Ikeda Y, Cho Y-M, Hayashi N, Inoue T, Sugimura Y, Nishiyama N, Fujita T, Chao J, Ushijima T, Shirai T: Down-regulated expression of prostaticin in high-grade or hormone-refractory human prostate cancers. *Prostate*, 54: 187-193, 2003
- \* Takahashi S, Suzuki S, Inaguma S, Ikeda Y, Cho YM, Nishiyama N, Fujita T, Inoue T, Hioki T, Sugimura Y, Ushijima T, Shirai T: Down-regulation of human X-box binding protein 1 (hXBP-1) expression correlates with tumor progression in human prostate cancers. *Prostate*, 50: 154-161, 2002
- \* Takeyama J, Suzuki T, Hirasawa G, Muramatsu Y, Nagura H, Iinuma K, Nakamura J, Kimura KI, Yoshihama M, Harada N, Andersson S, Sasano H: 17beta-hydroxysteroid dehydrogenase type 1 and 2 expression in the human fetus. *J Clin Endocrinol Metab*, 85: 410-416, 2000
- \* Takeyama J, Suzuki T, Inoue S, Kaneko C, Nagura H, Harada N, Sasano H: Expression and cellular localization of estrogen receptors alpha and beta in the human fetus. *J Clin Endocrinol Metab*, 86: 2258-2262, 2001

- \* Takeyama K, Ito S, Sawatsubashi S, Shirode Y, Yamamoto A, Suzuki E, Maki A, Yamagata K, Zhao Y, Kouzmenko A, Tabata T, Kato S: A novel genetic system for analysis of co-activators for the N-terminal transactivation function domain of the human androgen receptor. *Biosci Biotechnol Biochem*, 68: 1209-1215, 2004
- \* Takeyama K, Ito S, Yamamoto A, Tanimoto H, Furutani T, Kanuka H, Miura M, Tabata T, Kato S: Androgen-dependent neurodegeneration by polyglutamine-expanded human androgen receptor in drosophila. *Neuron*, 35: 855-864, 2002
- \* Tamura T, Kunimatsu T, Yee S-T, Igarashi O, Utsuyama M, Tanaka S, Miyazaki S, Hirokawa K, Nariuchi H: Molecular mechanism of the impairment in activation signal transduction in CD4+ T cells from old mice. *Int Immunol*, 12: 1205-1215, 2000
- Terashima I, Matsuda T, Fang T, Suzuki N, Kobayashi J, Kohda K, Shibutani S: Miscoding potential of N2-ethyl-2'-deoxyguanosine DNA adduct by the exonuclease-free Klenow fragment of Escherichia coli DNA polymerase I. *Biochemistry*, 40: 4106-4114, 2001
- Totsune K, Takahashi K, Arihara Z, Sone M, Satoh F, Ito S, Kimura Y, Sasano H, Murakami O: Role of urotensin II in patients on dialysis. *Lancet*, 358: 810-811, 2001
- Tsubochi H, Suzuki S, Kubo H, Ueno T, Yoshimura T, Suzuki T, Sasano H, Kondo T: Early changes in alveolar fluid clearance by nitric oxide after endotoxin instillation in rats. *Am J Respir Crit Care Med*, 167: 205-210, 2003
- \* Tsuboi I, Morimoto K, Hirabayashi Y, Li G-X, Aizawa S, Mori KJ, Kanno J, Inoue T: Senescent B lymphopoiesis is balanced in suppressive homeostasis: decrease in interleukin-7 and transforming growth factor-beta levels in stromal cells of senescence-accelerated mice. *Exp Biol Med*, 229: 494-502, 2004
- Uchida K, Chaudhary LR, Sugimura Y, Adkisson HD, Hruska KA: Proprotein convertases regulate activity of prostate epithelial cell differentiation markers and are modulated in human prostate cancer cells. *J Cell Biochem*, 88: 394-399, 2003
- Uchima F-DA, Edery M, Iguchi T, Bern HA: Growth of mouse endometrial luminal epithelial cells in vitro: functional integrity of the oestrogen receptor system and failure of oestrogen to induce proliferation. *J Endocrinol*, 128:115-120, 1991
- \* Utsunomiya H, Ito K, Suzuki T, Kitamura T, Kaneko C, Nakata T, Niikura H, Okamura K, Yaegashi N, Sasano H: Steroid sulfatase and estrogen sulfotransferase in human endometrial carcinoma. *Clin Cancer Res*, 10: 5850-5856, 2004
- \* Utsunomiya H, Suzuki T, Kaneko C, Takeyama J, Nakamura J, Kimura K, Yoshihama M, Harada N, Ito K, Konno R, Sato S, Okamura K, Sasano H: The analyses of 17beta-hydroxysteroid dehydrogenase isozymes in human endometrial hyperplasia and carcinoma. *J Clin Endocrinol Metab*, 86: 3436-3443, 2001
- \* Utsuyama M, Hirokawa K: Radiation-induced-thymic lymphoma occurs in young, but not in old mice. *Exper Mol Pathol*, 74: 319-325, 2003
- \* Utsuyama M, Kanno J, Inoue T, Hirokawa K: Age/sex dependent and non-monotonous

- dose-response effect of diethylstilbestrol on the immune functions in mice. *Toxicol Lett*, 135: 145-153, 2002
- \* Utsuyama M, Seidler H, Kitagawa M, Hirokawa K: Immunological restoration and anti-tumor effect by Japanese herbal medicine in aged mice. *Mech Ageing Dev*, 122: 341-352, 2001
- Utsuyama M, Shiraishi J, Takahashi H, Kasai M, Hirokawa K: Glia maturation factor produced by thymic epithelial cells plays a role in T cell differentiation in the thymic microenvironment. *Int Immunol*, 15: 557-564, 2003
- Wada O, Oishi H, Takada I, Yanagisawa J, Yano T, Kato S: BRCA1 function mediates a TRAP/DRIP complex through direct interaction with TRAP220. *Oncogene*, 23: 6000-6005, 2004
- Wanibuchi H, Fukushima S: Analysis of arsenic carcinogenicity-using animal models. *J Toxicol Sci*, 29: 276, 2004
- Wanibuchi H, Salim EI, Kinoshita A, Shen J, Wei M, Morimura K, Yoshida K, Kuroda K, Endo G, Fukushima S: Understanding arsenic carcinogenicity by the use of animal models. *Toxicol Applied Pharmacol*, 198: 366-376, 2004
- \* Watanabe H, Suzuki A, Goto M, Lubahn DB, Handa H, Iguchi T: Tissue-specific estrogenic and non-estrogenic effects of a xenoestrogen, nonylphenol. *J Mol Endocr*, 33: 243-252, 2004
- \* Watanabe H, Suzuki A, Goto M, Ohsako S, Tohyama C, Handa H, Iguchi T: Comparative uterine gene expression analysis after dioxin and estradiol administration. *J Mol Endocrinol*, 33: 763-771, 2004
- \* Watanabe H, Suzuki A, Kobayashi M, Lubahn D, Handa H, Iguchi T: Analysis of temporal changes in the expression of estrogen regulated genes in the uterus. *J Mol Endocrinol*, 30: 347-358, 2003
- \* Watanabe H, Suzuki A, Kobayashi M, Lubahn DB, Handa H, Iguchi T: Similarities and differences in uterine gene expression patterns caused by treatment with physiological and non-physiological estrogen. *J Mol Endocrinol*, 31: 487-497, 2003
- \* Watanabe H, Suzuki A, Mizutani T, Kohno S, Lubahn DB, Handa H, Iguchi T: Genome-wide analysis of changes in early gene expression induced by estrogen. *Genes Cells*, 7: 497-507, 2002
- Wei M, Wanibuchi H, Morimura K, Iwai S, Yoshida K, Endo G, Nakae D, Fukushima S: Carcinogenicity of dimethylarsinic acid in male F344 rats and genetic alterations in induced urinary bladder tumors. *Carcinogenesis*, 23: 1387-1397, 2002
- \* Yamada Y, Toyota M, Hirokawa Y, Suzuki H, Takagi A, Matsuzaki T, Sugimura Y, Yatani R, Shiraishi T, Watanabe M: Identification of differentially methylated CpG islands in prostate cancer. *Int J Cancer*, 112: 840-845, 2004
- \* Yamada Y, Watanabe M, Yamanaka M, Hirokawa Y, Suzuki H, Takagi A, matsuzaki T, Sugimura Y, Yatani R, Shiraishi T: Aberrant methylation of the vascular endothelial growth

- factor receptor-1 gene in prostate cancer. *Cancer Sci*, 94: 536-539, 2003
- Yamahara K, Itoh H, Yamamoto A, Sasano H, Masatsugu K, Sawada N, Fukunaga Y, Sakaguchi S, Sone M, Yurugi T, Nakao K: New diagnostic procedure for primary aldosteronism: adrenal venous sampling under adrenocorticotrophic hormone and angiotensin II receptor blocker—application to a case of bilateral multiple adrenal microadenomas. *Hypertens Res*, 25: 145-152, 2002
- \* Yamamoto Y, Wada O, Takada I, Yogiashi Y, Shibata J, Yanagisawa J, Kitazato, K, Kato S: Both N- and C-terminal transactivation functions of DNA-bound ERalpha are blocked by a novel synthetic estrogen ligand. *Biochem Biophys Res Commun*, 312: 656-662, 2003
- \* Yamanaka M, Watanabe, M, Yamada Y, Takagi A, Murata T, Takahashi H, Suzuki H, Ito H, Tsukino H, Katoh T, Sugimura Y, Shiraishi T: Altered methylation of multiple genes in carcinogenesis of the prostate. *Int J Cancer*, 106: 382-387, 2003
- \* Yanagisawa J, Kitagawa H, Yanagida M, Wada O, Ogawa S, Nakagomi M, Oishi H, Yamamoto Y, Nagasawa H, MacMahon SB, Cole MD, Tora L, Takahashi N, Kato S: Nuclear receptor function requires a TFTC-type histone acetyl transferase complex. *Mol Cell*, 9: 553-562, 2002
- \* Yang S, Fang Z, Suzuki T, Sasano H, Zhou J, Gurates B, Tamura M, Ferrer K, Bulun S: Regulation of aromatase P450 expression in endometriotic and endometrial stromal cells by CCAAT/enhancer binding proteins (C/EBPs): decreased C/EBPbeta in endometriosis is associated with overexpression of aromatase. *J Clin Endocrinol Metab*, 87: 2336-2345, 2002
- Yasui M, Matsui S, Ihara M, Laxmi YRS, Shibutani S, Matsuda T : Translesional synthesis on DNA template containing N2-methyl-2' -deoxyguanosine catalyzed by the Klenow fragment of Escherichia coli DNA polymerase I. *Nucleic Acids Res*, 29: 1994-2001, 2001
- Yasui M, Matsui S, Laxmi YR, Suzuki N, Kim SY, Shibutani S, Matsuda T: Mutagenic events induced by 4-hydroxyequilin in supF shuttle vector plasmid propagated in human cells. *Carcinogenesis*, 24: 911-917, 2003
- Yasui M, Suzuki N, Miller H, Matsuda T, Matsui S, Shibutani S: Translesion synthesis past 2'-deoxyxanthosine, a nitric oxide-derived DNA adduct, by mammalian DNA polymerases. *J Mol Biol*, 344: 665-674, 2004
- \* Yoon BI, Hirabayashi Y, Kawasaki Y, Kodama Y, Kaneko T, Kanno J, Kim DY, Fujii-Kuriyama, Inoue T: Aryl hydrocarbon receptor mediates benzene-induced hematotoxicity. *Toxicol Sci*, 70: 150-156, 2002
- \* Yoon BI, Hirabayashi Y, Kawasaki Y, Tsuboi I, Ott T, Kodama Y, Kanno J, Kim DY, Willecke K, Inoue T: Exacerbation of benzene pneumo-toxicity in connexin 32 knockout mice: enhanced proliferation of CYP2E1-immunoreactive alveolar epithelial cells. *Toxicology*, 195: 19-29, 2004
- \* Yoon BI, Li GX, Kitada K, Kawasaki Y, Igarashi K, Kodama Y, Inoue T, Kobayashi K, Kanno