

## 国立医薬品食品衛生研究所安全性生物試験研究センター 病理部創立 50 周年 記念業績集

国立医薬品食品衛生研究所 安全性生物試験研究センター 病理部は、大阪万博が開催中の昭和 45 年(1970 年)7 月に国立衛生試験所の薬品病理部として新設され、初代部長の小田嶋 成和先生のもと歩みをはじめました。

創立 50 周年の節目を迎える令和 2 年(2020 年)7 月に記念祝賀会を開催すべく準備を進めていた矢先、歴史に残るコロナ禍に見舞われ、集会は延期せざるを得なくなりました。せめて、二代目林 裕造先生、三代目高橋 道人先生、四代目廣瀬 雅雄先生、五代目西川 秋佳先生の時代を通して受け継がれてきた病理部の歴史を振り返ることを目的に、部内の文献リスト、衛研報告及び PubMed 等を確認するとともに、先輩方の御協力を得て業績集をまとめることと致しました。

その過程において、病理部が遂行してきた研究・業務の成果、並びに共同研究等で交流してきた他機関の研究者のお名前を拝見する機会を得る事になりました。改めて、日本における毒性病理学の黎明期から様々な課題に対応し、パソコン(おそらく 1990 年代)もワープロ(おそらく 1980 年代)さえもない時代から、化学物質の安全性確保に関する病理学的研究を牽引し、発表されてきた諸先輩方の膨大な足跡に身が引き締まる思いです。

我々も、先輩方の DNA を受け継いで、今後とも課題に対応すべく研究を重ねて参りたいと考えております。

2020 年吉日

国立医薬品食品衛生研究所 安全性生物試験研究センター病理部

部長 小川 久美子

室長 石井 雄二

室長 豊田 武士

【1970年】

- Odashima S, Wang FC.  
Establishment of four lines of transplantable rat leukemia induced by N-nitrosobutylurea in Donryu rats.  
Gann. 1970 Dec; 61(6): 597-600.
- Odashima S.  
Leukemogenesis of N-nitrosobutylurea in the rat. I. Effect of various concentrations in the drinking water to female Donryu rats.  
Gann. 1970 Jun; 61(3): 245-53.
- Odashima S, Hashimoto Y.  
Carcinogenicity and target organs of methoxyl derivatives of 4-aminoazobenzene in rats. II. Effect of various concentration of 3-methoxy- and 2,5-dimethoxy-4-aminoazobenzene in the diet.  
Gann. 1970 Apr; 61(2): 153-60.
- Morris HP, Nagayo T, Odashima S.  
U.S.-Japan seminar on experimental carcinoma of the glandular stomach.  
Cancer Res. 1970 Feb; 30(2): 546-7.

【1971年】

- Maekawa A, Nakamura T, Kojima K.  
Electrokinetic properties of Yoshida sarcoma cells treated with antibodies.  
Gann. 1971 Apr; 62(2): 69-76.

【1972年】

- 小田嶋成和  
癌と化学物質—最近の話題  
新薬と治療, 1972; 158: 5.
- 小田嶋成和  
肝がん  
日本臨床, 1972; 30(1): 442.
- 小田嶋成和, 松島泰次郎  
高松宮妃癌研究基金による第2回国際会議から  
蛋白質, 核酸, 酵素, 1972; 17(5): 63.

- 小田嶋成和  
癌原性物質の Summation 効果  
日本臨床, 1972; 30(4): 77.
- 小田嶋成和  
化学物質による発癌 -最近の話題-  
癌の臨床, 1972; 18: 571.
- 小田嶋成和  
白血病誘発物質 N-nitroso-N-butylurea -発癌標的臓器の変異-  
化学と生物, 1972; 10: 582.
- Odashima S.  
Leukemogenic Effects of N-Butyl-N-Nitrosourea in Rats  
GANN Monograph on Cancer Research, 1972; 12: 286.
- Kojima K, Maekawa A.  
A difference in the architecture of surface membrane between two cell types of rat  
ascites hepatomas.  
Cancer Res. 1972 Apr; 32(4): 847-52.
- Odashima S.  
Leukemogenic Effects of N- Nitroso-N-butylurea in Rats  
Topics in Chemical Carcinogenesis-Proceedings of the 2<sup>nd</sup> International Symposium of  
The Princess Takamatsu Cancer Research Fund, p. 477 (1972)
- Odashima S.  
Leukemogenic Effects of N-Nitroso-N-butylurea in Rats  
GANN Monograph on Cancer Research, 1972; 12: 283.
- **【1973年】**
- Nakadate M, Anzai M, Suzuki I, Ishidate M Jr, Odashima S.  
Carcinostatic effect of 1,1'-polymethylenebis-(1-nitrosourea) on AH-13 and L-1210  
cells.  
Gann. 1973 Aug; 64(4): 415-6.
- 小田嶋成和  
癌原性化学物質誘発腫瘍

医化学実験講座, 1973; 7: 18.

- 小田嶋成和  
癌原性化学物質をもちいての実験法  
医化学実験法講座, 1973; 7: 105.
- 前川昭彦  
異種移植における液性抗体  
山田喬編, 細胞電気泳動実験法 (文光堂) p. 162-164 (1973. 11)
- 前川昭彦  
細胞分離核の電気泳動的性格  
山田喬編, 細胞電気泳動実験法 (文光堂) p. 177-182 (1973. 11)
- 小田嶋成和  
NBU による白血病  
東京大学医科学研究所学友会, 安藤俊夫, 小田鈎一郎, 小高健編,  
癌 (文光堂) p. 80-100 (1973. 12)

**【1974 年】**

- Iwanami Y, Odashima S.  
Inactivation of benzo(a)pyrene. Lowered tumor incidence by the combined administration with dimethyl acetylenedicarboxylate.  
Naturwissenschaften. 1974 Nov; 61(11): 509.
- Ogiu T, Nakadate M, Odashima S.  
Rapid and selective induction of erythroleukemia in female Donryu rats by 1-ethyl-1-nitrosourea.  
Gann. 1974 Aug; 65(4): 377.
- Takeuchi M, Kamiya S, Odashima S.  
Induction of tumors of the forestomach, esophagus, pharynx, and oral cavity of the Donryu rat given N-butyl-N-nitrosourea in the drinking water.  
Gann. 1974 Jun; 65(3): 227-36.
- 小田嶋成和, 竹内雅也, 神谷庄造  
ブチルニトロソウレタンによる上部消化管腫瘍  
医学のあゆみ, 1974; 88: 564.

- 小田嶋成和  
環境発癌性物質検索に関する国際協力について -IARC 国際会議（モスクワ，  
1973 年，11 月）に出席して-  
医薬品研究，1974; 5: 206.
- 小田嶋成和  
担癌動物（基本操作法 臓器の取扱い -1- 実験動物の作り方）  
代謝，1974; 11: 1667-73.
- 小田嶋成和  
N-ニトロソ化合物による発ガン研究の進歩  
食衛誌，1974; 15: 419.

**【1975 年】**

- Maekawa A, Odashima S.  
Spontaneous tumors in ACI/N rats.  
J Natl Cancer Inst. 1975 Dec; 55(6): 1437-45.
- Odashima S, Hashimoto Y, Ogiu T, Maekawa A.  
Carcinogenic effect of 1-butyl-1-nitrosourea on female Sprague-Dawley rats.  
Gann. 1975 Dec; 66(6): 615-21.
- Maekawa A, Odashima S.  
administered transplacentally, neonatally, or via maternal milk.  
Gann. 1975 Apr; 66(2): 175-83.
- Ogiu T, Nakadate M, Odashima S.  
Induction of Leukemias and digestive tract tumors in Donryu rats by 1-propyl-1-  
nitrosourea.  
J Natl Cancer Inst. 1975 Apr; 54(4): 887-93.
- Odashima S, Ogiu T, Maekawa A.  
Leukemias induced by 1-butyl- and 1-propyl-1-nitrosoureas in the rat.  
Bibl Haematol. 1975; (40): 107-15.
- Odashima S, Ogiu T, Maekawa A, Nakadate M,  
Leukemias induced by 1-alkyl-1-nitrosoureas in Donryu rats  
GANN Monograph on Cancer Research. 1975; 17: 405.
- 小田嶋成和

化学物質の癌原性スクリーニングの現況  
月刊薬事, 1975; 17: 627.

- 小田嶋成和

化学的発癌

臨床科学, 1975; 11: 98.

- 小田嶋成和

環境発癌 (1) 化学発癌物質

第 19 回日本医学会総会誌, p. 435 (1975) 京都

- 前川昭彦

実験白血病における前白血病

第 19 回日本医学会総会誌, p. 998 (1975) 京都

### 【1976 年】

- Ogiu T, Nakadate M, Odashima S.

Rapid and selective induction of erythroleukemia in female Donryu rats by continuous oral administration of 1-ethyl-1-nitrosourea.

Cancer Res. 1976 Sep; 36(9 pt.1): 3043-6.

- Maekawa A, Kamiya S, Odashima S.

Tumors of the upper digestive tract of ACI/N rats given N-propyl-N-nitrosourea in the drinking water.

Gann. 1976 Aug; 67(4): 549-59.

- Maekawa A, Odashima S, Nakadate M.

Induction of tumors in the stomach and nervous system of the ACI/N rat by continuous oral administration of 1-methyl-3-acetyl-1-nitrosourea.

Z Krebsforsch Klin Onkol Cancer Res Clin Oncol. 1976 Jun 15; 86(2): 195-207.

- Odashima S, Sturgess JM, Rothstein A.

Studies with mature rat hepatocytes in monolayer culture. I. Propagation of isolated hepatocytes, morphological and biochemical in culture.

Cell Tissue Res. 1976 Jun 14; 169(2): 167-78.

- Takeuchi M, Maekawa A, Tada K, Odashima S.

Leukemias and vaginal tumors induced in female Donryu rats by continuous administration of 1-butyl-3,3-dimethyl-1-nitrosourea in the drinking water.

- J Natl Cancer Inst. 1976 Jun; 56(6): 1177-81.
- Fujii K, Kurata H, Odashima S, Hatsuda Y.  
Tumor induction by a single subcutaneous injection of sterigmatocystin in newborn mice.  
Cancer Res. 1976 May; 36(5): 1615-8.
  - Ogiu T, Nakadate M, Odashima S.  
Induction of tumors in female Donryu rats by a single administration of 1-propyl-1-nitrosourea.  
Gann. 1976 Feb; 67(1): 121-4.
  - Odashima S.  
The cooperative development in Japan of methods for screening chemicals for carcinogenicity screening tests in chemical carcinogenesis,  
Eds. Montesano R, Bartsch H, Tomatis L.  
IARC Scientific Publications. Lyon. 1976; No. 12, p. 61.
  - 小田嶋成和  
癌原性物質の標的臓器  
化学工業, 1976; 4: 365.
  - 小田嶋成和  
哺乳動物発癌実験の：方法と評価一日米癌協力研究事業による会議一  
蛋白質・核酸・酵素, 1976; 21: 76.
  - 小田嶋成和  
癌と化学物質  
診断と治療, 1976; 64: 377.
- 【1977年】
- Miyahara M, Nakadate M, Miyahara M, Suzuki I, Ishidate M Jr, Odashima S.  
Antitumor effect of 1,1'-polymethylene-bis (1-nitrosourea) and related compounds.  
Gann. 1977 Oct; 68(5): 573-80.
  - Ogiu T, Nakadate M, Furuta K, Maekawa A, Odashima S.  
Induction of tumors of peripheral nervous system in female Donryu rats by continuous oral administration of 1-methyl-1-nitrosourea.  
Gann. 1977 Aug; 68(4): 491-8.

- Ishidate M Jr, Odashima S.  
Chromosome tests with 134 compounds on Chinese hamster cells in vitro--a screening for chemical carcinogens.  
Mutat Res. 1977 Jul; 48(3-4): 337-53.
- Fujii K, Odashima S, Okada M.  
Induction of tumours by administration of N-dibutyl nitrosamine and derivatives to infant mice.  
Br J Cancer. 1977 May; 35(5): 610-4.
- Maekawa A, Ishiwata H, Odashima S.  
Transplacental carcinogenesis and chemical determination of 1-butyl-1-nitrosourea in stomach content after simultaneous oral administration of 1-butylurea and sodium nitrite to ACI/N rats.  
Gann. 1977 Feb; 68(1): 81-7.
- Antitumor activity of 4-nitropyridazine 1-oxides and related compounds for AH-13.  
Kamiya S, Anzai M, Nakashima T, Sueyoshi S, Tanno M, Suzuki I, Ishidate M Jr., Odashima S.  
Chem Pharm Bull (Tokyo). 1977 Mar; 25(3): 504-6.
- 小田嶋成和  
化学物質と発癌  
新内科学大系, 1977; 60A: 20.
- 小田嶋成和  
ニトロソ化合物と発癌  
臨床科学, 1977; 13: 1119.
- **【1978年】**
- Kamiya S, Miyahara M, Sueyoshi S, Suzuki I, Odashima S.  
Synthesis of antitumor pyridine and pyridazine N-oxides having (2-chloroethyl) nitrosouroidomethyl and bis(2-chlorethyl)-aminomethyl groups.  
Chem Pharm Bull (Tokyo). 1978 Dec; 26(12): 3884-8.
- Abe H, Odashima S, Arichi S.  
The effects of saikosaponins on biological membranes. 2. Changes in electron spin resonance spectra from spin-labelled erythrocyte and erythrocyte ghost membranes.

- Planta Med. 1978 Nov; 34(3): 287-90.
- Odashima S.  
[Carcinogen bioassay in experimental animals (author's transl)].  
Tanpakushitsu Kakusan Koso. 1978 May; 23(6): 739-47.
  - Odashima S.  
[Nitroso compounds and carcinogenesis--recent findings].  
Nihon Rinsho. 1978 May; Suppl: 1148-9.
  - Miyahara M, Miyahara M, Nakadate M, Suzuki I, Odashima S.  
Sensitivity difference of rat ascites hepatoma AH-13 and mouse leukemia L-1210 to nitrosourea derivatives.  
Gann. 1978 Apr; 69(2): 187-93.
  - Miyahara M, Kamiya S, Nakadate M, Sueyoshi S, Tanno M, Miyahara M, Suzuki I, Odashima S.  
[Antitumor effect of compounds synthesized in the Division of Synthetic Chemistry. (II) (author's transl)].  
Eisei Shikenjo Hokoku. 1978; (96): 91-4.
  - Onodera H, Ogiu T, Matsuoka C, Furuta K, Takeuchi M, Oono Y, Kubota T, Miyahara M,  
[Studies on effects of sodium benzoate on fetuses and offspring of Wistar rats (author's transl)].  
Eisei Shikenjo Hokoku. 1978; (96): 47-55.
  - Hematological and histopathological characteristics of leukemias induced by 1-alkyl-1-nitrosoureas in Donryu rats.  
Ogiu T.  
Gann. 1978 Dec; 69(6): 781-91.
  - 小田嶋成和  
動物における癌原性検索法  
蛋白質核酸酵素, 1978; 23 (6): 737.
  - 石館基, 林真, 沢田稔, 松岡厚子, 大野昌子, 中館正弘  
医薬品類の細胞毒性 一培養細胞に対する染色体異常誘発性について  
衛生試験所報告 1978; 96: 55-61.

【1979年】

- Abe H, Arichi S, Hayashi T, Odashima S.  
Ultrastructural studies of Morris hepatoma cells reversely transformed by ginsenosides.  
*Experientia*. 1979 Dec 15; 35(12): 1647-9.
- Maekawa A, Kajiwara T, Odashima S, Kurata H.  
Hepatic changes in male ACI/N rats on low dietary levels of sterigmatocystin.  
*Gann*. 1979 Dec; 70(6): 777-81.
- Miyahara M, Kamiya S, Maekawa A, Odashima S.  
Antitumor effect of pyridine N-oxides having 1-(2-chloroethyl)-1-nitrosoureidoalkyl  
and 1-methyl-1-nitrosoureidoalkyl groups.  
*Gann*. 1979 Dec; 70(6): 731-6.
- Hirose M, Maekawa A, Kamiya S, Odashima S.  
Carcinogenic effect of N-ethyl- and N-amyl-N-nitrosourethans on female Donryu rats.  
*Gann*. 1979 Oct; 70(5): 653-62.
- Odashima S.  
[Ultrastructure of visual cells in the turtle retina (author's transl)].  
*Nippon Ganka Gakkai Zasshi*. 1979 Jun 10; 83(6): 472-84.
- Odashima S, Nakayabu Y, Honjo N, Abe H, Arichi S.  
Induction of phenotypic reverse transformation by ginsenosides in cultured Morris  
hepatoma cells.  
*Eur J Cancer*. 1979 Jun; 15(6): 885-92.
- Miyahara M, Kamiya S, Nakadate M, Sueyoshi S, Tanno M, Miyahara M, Maekawa A,  
Odashima S.  
[Antitumor effect of compounds synthesized in the Division of Synthetic Chemistry.  
(III) (author's transl)].  
*Eisei Shikenjo Hokoku*. 1979; (97): 107-9.
- Odashima S.  
Tumours of the oral cavity, pharynx, oesophagus and stomach.  
*IARC Sci Publ*. 1979; 23: 147-67.
- Ogiu T, Nakamura K.  
Growth of intraperitoneally transplanted ascites hepatoma, AH39 cells, in the area of  
gelatin sponge inoculation into the abdominal wall of Donryu rats.

Gann. 1979 Apr; 70(2): 173-9.

- 小田嶋成和  
消化器系で生成され得るものについて—N-ニトロソ化合物の癌原性と消化管内における生成  
癌と化学療法, 1979; 5: 113.
- 黒川雄二  
発癌過程における上皮間葉相互作用.  
遺伝 1979; 34: 62-8.
- 前川昭彦, 黒川雄二  
食道癌 (動物).  
癌の科学 (ヒトの癌と動物モデル) 1979; 4: 86-101.

【1980年】

- Maekawa A, Onodera H, Furuta K, Odashima S.  
Transplacental and neonatal carcinogenesis by 1-butyl-1-nitrosourea in the ACI/N rat.  
Gann. 1980 Dec; 71(6): 811-5.
- Abe H, Sakaguchi M, Yamada M, Arichi S, Odashima S.  
Pharmacological actions of saikosaponins isolated from *Bupleurum falcatum*. 1. Effects of saikosaponins on liver function.  
Planta Med. 1980 Dec; 40(4): 366-72.
- Fujii K, Nakadate M, Ogiu T, Odashima S.  
Induction of digestive tract tumors and leukemias in Donryu rats by administration of 1-amyl-1-nitrosourea in drinking water.  
Gann. 1980 Aug; 71(4): 464-70.
- Abe H, Yasuda Y, Sakaguchi M, Arichi S, Odashima S.  
[Pharmacological studies on prescriptions containing *Bupleuri Radix*. I. Effects on weights of various organs and histological changes (author's transl)].  
Yakugaku Zasshi. 1980 Jun; 100(6): 602-6.
- Takeuchi M, Ogiu T, Nakadate M, Odashima S.  
Induction of duodenal-tumors and thymomas in Fischer rats by continuous oral administration of 1-propyl-1-nitrosourea.

- Gann. 1980 Apr; 71(2): 231-7.
- Takeuchi M, Ogiu T, Nakadate M, Odashima S.  
Induction of duodenal tumors in F344 rats by continuous oral administration of N-ethyl-N-nitrosourea.  
J Natl Cancer Inst. 1980 Mar; 64(3): 613-6.
  - Odashima S.  
Cooperative programme on long-term assays for carcinogenicity in Japan.  
IARC Sci Publ. 1980; (27): 315-22.
  - Ogiu T, Kajiwara T, Furuta K, Takeuchi M, Odashima S, Tada K.  
Mammary tumorigenic effect of a new nitrosourea, 1,3-dibutyl-1-nitrosourea (B-BNU), in female Donryu rats.  
J Cancer Res Clin Oncol. 1980 Jan; 96(1): 35-41.
  - Miyahara M, Kamiya S, Nakadate M, Sueyoshi S, Tanno M, Miyahara M, Maekawa A, Odashima S.  
[Antitumor effect of compounds synthesized in the Division of Synthetic Chemistry (IV) (author's transl)].  
Eisei Shikenjo Hokoku. 1980; 98: 123-5.
  - Odashima S.  
Overview: N-nitroso compounds as carcinogens for experimental animals and man.  
Oncology. 1980; 37(4): 282-6.
  - Feron VJ, Grice HC, Griesemer R, Peto R, Agthe C, Althoff J, Arnold DL, Blumenthal H, Cabral JR, Della Porta G, Ito N, Kimmerle G, Kroes R, Mohr U, Napalkov NP, Odashima S, Page NP, Schramm T, Steinhoff D, Sugar J, Tomatis L, Uehleke H, Vouk V.  
Basic requirements for long-term assays for carcinogenicity.  
IARC Monogr Eval Carcinog Risk Chem Hum Suppl. 1980; (2 Suppl): 21-83.
  - 前川昭彦, 荻生俊昭, 小野寺博志, 古田京子, 小田嶋成和  
N-ニトロソ尿素によるラット脳神経系腫瘍の発生と病理  
神経研究の進歩 1980; 24(2): 255-64.
  - 古川文夫, 倉田靖, 小久保武, 高橋道人, 中館正弘  
F344 ラットにおける次亜塩素酸ナトリウムの癌原性試験実施にあたっての予

備試験（急性毒性・亜慢性毒性）の成果について

衛生試験所報告 1980; 98: 62-9.

- 倉田靖, 古川文夫, 小久保武, 高橋道人, 中館正弘

チラム(Tetramethylthiuram disulfide)の癌原性試験実施にあたっての予備試験  
（亜慢性毒性）の成果について

衛生試験所報告 1980; 98: 69-76.

- 林裕造

I. 急性毒性試験

フジテクノシステム刊「変異原と毒性」 1980; 10: 40-5.

- 高橋道人

II. 慢性毒性および癌原性試験

フジテクノシステム刊「変異原と毒性」 1980; 10: 46-55.

- Maekawa A, Onodera H, Furuta K, Odashima S.

Transplacental and neonatal carcinogenesis by 1-butyl-1-nitrosourethan in the ACI/N rat.

Gann. 1980 Dec; 71(6): 811-5.

- Kameji R, Otsuka H, Hayashi Y.

Increase of collagen synthesis in pulmonary arteries of monocrotaline-treated rats.

Experientia. 1980 Apr 15; 36(4): 441-2.

- Takahashi M, Arai H, Kokubo T, Furukawa F, Kurata Y, Ito N.

An ultrastructural study of precancerous and cancerous lesions of the pancreas in Syrian golden hamsters induced by N-nitrosobis(2-oxopropyl)amine.

Gann. 1980 Dec; 71(6): 825-31.

**【1981年】**

- 古川文夫, 高橋道人, 長野嘉介, 小久保武, 林裕造

魚粉加熱分解物の *in vivo* による短期癌原性スクリーニング・テストの結果について

衛生試験所報告 1981; 99: 56-9.

- 大野裕子, 高村直子, 黒川雄二, 林裕造

Retinol acetate のラットにおける亜急性毒性試験

医薬品研究 1981; 12(4): 1064-81.

- 林裕造  
薬物毒性研究における病理学的検査の意義と方法  
静岡実験動物研究会会報 1981; 16: 29-35.
- 前川昭彦, 滝沢春雄, 林裕造  
癌原性試験に用いるマウス, ラットおよびハムスターの自然発生腫瘍  
サイエンスフォーラム刊「変異原と毒性」 1981; 4(4): 22-41.
- 小久保武, 古川文夫, 林裕造  
農薬と呼吸器障害  
サイエンスフォーラム刊「変異原と毒性」 1981; 4(4): 92-9
- 高橋道人  
ホルムアルデヒドの癌原性  
サイエンスフォーラム刊「変異原と毒性」 1981; 4(4): 102-11.
- Takahashi M, Shirai T, Fukushima S, Ito N, Kokubo T, Kurata Y.  
Ulcer formation and associated tumor production in multiple sites within the stomach and duodenum of rats treated with N-methyl-N'-nitro-N-nitrosoguanidine.  
J Natl Cancer Inst. 1981 Aug; 67(2): 473-9.
- Kokubo T, Takahashi M, Kurokawa Y, Miyahara M, Furihata C, Matsushima T.  
Preservation of gastric gland character in transplantable gastric adenocarcinoma (SG2B) of rats.  
Gann. 1981 Aug; 72(4): 583-9.
- Takahashi M, Nagase S, Takahashi M, Kokubo T, Hayashi Y.  
Changes of amylase during experimental pancreatic carcinogenesis in hamsters.  
Gann. 1981 Aug; 72(4): 615-9.
- Hayashi Y, Yoshimura Y, Yamaguchi K, Imai K, Abe F, Ando M, Ueki M, Hashimoto K, Ono H, Hashimoto K.  
Subacute toxicity of perhexiline in rats  
Oyo Yakuri. 1981; 21: 95-122.
- Kurokawa Y, Takahashi M, Furihata C, Ohno Y, Takamura N.  
Transplantation of untreated glandular stomach of fetal and newborn rats and their

alignant conversion.

Gann. 1981 Aug; 72(4): 620-6.

- Kurokawa Y, Takahashi M, Ohno Y, Takamura N, Odashima S.  
An organ culture method for glandular stomach of new born rat.  
Tohoku J Exp Med. 1981 Jun; 134(2): 183-93.
- Hayashi Y, Katayama H.  
Promoting effect of testosterone propionate on experimental exocrine pancreatic tumors  
by 4-hydroxyaminoquinoline 1-oxide in rats.  
Toxicol Lett. 1981 Dec; 9(4): 349-54.
- 林裕造  
化学物質の長期毒性試験と安全性評価  
食品化学特殊技術講習会 p. 67-75. (1981)
- Odashima S, Nishikawa K, Nakayabu Y, Nagao Y.  
Retention of liver-type pyruvate kinase in cultured rat hepatoma cells.  
Biochem Biophys Res Commun. 1981 Oct 30; 102(4): 1180-6.  
**【1982年】**
- 林裕造  
動物によるがん原性の検索  
病態生理 1982; 1(2): 117-22.
- 高橋道人  
長期飼育ワーキンググループ集会記録（その2）小げっ歯類の腭腫瘍（ハムスター）  
Exp. Anim. 1982; 31(1): 51-60.
- Maekawa A, Ogiu T, Onodera H, Furuta K, Matsuoka C, Ohno Y, Odashima S.  
Carcinogenicity studies of sodium nitrite and sodium nitrate in F-344 rats.  
Food Chem Toxicol. 1982 Feb; 20(1): 25-33.
- Onodera H, Furuta K, Matsuoka C, Kamiya S, Maekawa A.  
Carcinogenicities of 1-ethyl- and 1-amyl-1-nitrosourethans in female Donryu rats: dose-effect relations.  
Gann. 1982 Feb; 73(1): 48-54.
- Kurokawa Y, Hayashi Y, Maekawa A, Takahashi M, Kokubo T.

Induction of renal cell tumors in F-344 rats by oral administration of potassium bromate, a food additive.

Gann. 1982 Apr; 73(2): 335-8.

- Hirose M, Takahashi M, Fukushima S, Shibata M, Ito M.  
Chronic effects of 1,3-di(4-sulfamoylphenyl)triazene on male ICR Mice  
Nagoya Medical Journal. 1982; 26(4): 173-7.
- 林裕造  
GLP 規制と安全性研究 —研究者の立場から—  
Exp. Anim. 1982; 31(3): 207-13.
- 林裕造, 黒川雄二, 前川昭彦  
II. 実験的発癌一覧 B. 化学物質によるもの  
疾患モデル動物ハンドブック 1982; 2: 433-59.
- 高橋道人  
ホルムアルデヒドに関する米連邦パネルの報告  
衛生試験所報告 1982; 4: 16-58.
- 黒川雄二  
発癌性試験の結果の評価 —Dr. Squire の提案をめぐって—  
環境変異原研究 1982; 43: 52-7.
- 林裕造  
発癌性試験の方法  
日本化粧品科学会誌 1982; 6(3): 162-5.
- Maekawa A, Ogiu T, Onodera H, Furuta K, Matsuoka C, Mochizuki M, Anjo T, Okada M, Odashima S.  
Carcinogenicity of N-alkyl-N-(acetoxymethyl)nitrosamines after subcutaneous injections in F-344 rats.  
J Cancer Res Clin Oncol. 1982; 104(1-2): 13-21.
- Takahashi M, Kurokawa Y, Maekawa A, Kokubo T, Furukawa F, Mochizuki M, Anjo T, Okada M.  
Comparative carcinogenicities of model compounds of metabolically activated N,N-dibutyl nitrosamine in rats.

Gann. 1982 Oct; 73(5): 687-94.

- Takahashi M, Furukawa F, Kurata Y, Nagano K, Kokubo T, Hayashi Y, Nakadate M.  
Vascular tumors of the spleen and other neoplasms induced in Syrian golden hamsters by 1-propyl-1-nitrosourea.

Gann. 1982 Oct; 73(5): 695-703.

- 大野裕子, 小野寺博志, 高村直子, 今沢孝喜, 前川昭彦, 黒川雄二  
臭素酸カリウムのラットにおける癌原性について  
衛生試験所報告 1982; 100: 93-100.
- 長野嘉介, 宮川義史, 高橋道人, 古川文夫, 小久保武, 林裕造  
鼻腔構造の動物種差とその組織学的特性  
衛生試験所報告 1982; 100: 101-9.
- Maekawa A, Takahashi M, Kurokawa Y, Kokubo T, Ogiu T, Odashima S, Mochizuki M, Anjo T, Okada M.  
Carcinogenicity of alpha-oxidized nitrosamines (alpha-acyloxy, alpha-hydroperoxy, and alpha-oxo nitrosamines) in F-344 rats.  
IARC Sci Publ. 1982; (41): 619-24.
- 前川昭彦, 谷村顕雄, 中館正弘, 高橋道人, 黒川雄二, 荻生俊昭  
N-ニトロソ化合物の癌原性閾値に関する研究  
日産科学振興財団 1982; 5: 29-50.
- 大野裕子, 小野寺博志, 高村直子, 今沢孝喜, 前川昭彦, 黒川雄二  
臭素酸カリウムのラットにおける癌原性について  
衛生試験所報告 1982; 100: 93-100.

#### 【1983年】

- 黒木登志夫, 北川知行, 塚越茂, 浜岡利行, 林裕造, 吉倉廣  
発癌研究をめぐる最近の話題と展望  
サイエンスフォーラム刊「トキシコロジーフォーラム」 1983; 6(1): 2-33.
- 高橋道人  
胃癌発生とその修飾  
癌と化学療法 1983; 10(2): 421-7.
- Takahashi M, Kokubo T, Furukawa F, Kurokawa Y, Tatematsu M, Hayashi Y.

Effect of high salt diet on rat gastric carcinogenesis induced by N-methyl-N'-nitro-N-nitrosoguanidine.

Gann. 1983 Feb; 74(1): 28-34.

- 林裕造  
石綿と呼吸器疾患  
医学のあゆみ 1983; 125(1): 11-2.
- Tatematsu M, Furihata C, Katsuyama T, Hasegawa R, Nakanowatari J, Saito D, Takahashi M, Matsushima T, Ito N.  
Independent induction of intestinal metaplasia and gastric cancer in rats treated with N-methyl-N'-nitro-N-nitrosoguanidine.  
Cancer Res. 1983 Mar; 43(3): 1335-41.
- 林裕造  
動物から人へ ―外挿の科学―  
食品衛生研究 1983; 33: 79-88.
- 高橋道人  
発癌性試験の評価  
日本化粧品科学会誌 1983; 7: 58-63.
- 高橋道人  
実験膀胱癌とアミラーゼ値  
Oncologia 1983; 5: 154-6.
- Moore MA, Takahashi M, Ito N, Bannasch P.  
Early lesions during pancreatic carcinogenesis induced in Syrian hamster by DHPN or DOPN. I. Histologic, histochemical and radioautographic findings.  
Carcinogenesis. 1983; 4(4): 431-7.
- Moore MA, Takahashi M, Ito N, Bannasch P.  
Early lesions during pancreatic carcinogenesis induced in the Syrian hamster by DHPN or DOPN. II. Ultrastructural findings.  
Carcinogenesis. 1983; 4(4): 439-48.
- Maekawa A, Kurokawa Y, Takahashi M, Kokubo T, Ogiu T, Onodera H, Tanigawa H, Ohno Y, Furukawa F, Hayashi Y.  
Spontaneous tumors in F-344/DuCrj rats.

- Gann. 1983 Jun; 74(3): 365-72.
- 林裕造, 高橋道人  
動物発癌性試験の評価  
病理と臨床 1983; 1(6): 895-904.
  - Maekawa A, Ogiu T, Matsuoka C, Onodera H, Furuta K, Tanigawa H, Hayashi Y, Odashima S.  
Carcinogenicity study of ammonia-process caramel in F344 rats.  
Food Chem Toxicol. 1983 Jun; 21(3): 237-44.
  - 林裕造, 黒川雄二  
最近の動物長期テストの成果と問題点  
代謝 20, 臨時増刊号「癌 '83」 p. 19-27 (1983)
  - Ogiu T, Matsuoka C, Furuta K, Takeuchi M, Maekawa A, Nakadate M, Odashima S.  
Induction of angiogenic tumors in the duodenum of female Donryu rats by continuous oral administration of N-isobutyl-N-nitrosourea.  
Gann. 1983 Jun; 74(3): 342-50.
  - 黒木登志夫, 黒川雄二, 加美山茂利, 松下秀鶴  
中国のがん死亡統計図譜 -Atlas of cancer mortality in the people's republic of China-  
サイエンスフォーラム刊「トキシコロジーフォーラム」 1983; 6(5): 544-51.
  - Maekawa A, Ogiu T, Matsuoka C, Onodera H, Furuta K, Tanigawa H, Odashima S.  
Induction of tumors in the small intestine and mammary gland of female Donryu rats by continuous oral administration of N-carboxymethyl-N-nitrosourea.  
J Cancer Res Clin Oncol. 1983; 106(1): 12-6.
  - Pour PM, Takahashi M, Donnelly T, Stepan K.  
Modification of pancreatic carcinogenesis in the hamster model. IX. Effect of pancreatitis.  
J Natl Cancer Inst. 1983 Sep; 71(3): 607-13.
  - Maekawa A, Onodera H, Tanigawa H, Furuta K, Kodama Y, Horiuchi S, Hayashi Y.  
Neoplastic and non-neoplastic lesions in aging Slc: Wistar rats.  
J Toxicol Sci. 1983 Nov; 8(4): 279-90.
  - 古川文夫, 長野嘉介, 小久保武, 岸本嘉夫, 高橋道人, 林裕造

胃癌移植系 (SG2B) を用いた抗悪性腫瘍剤の効果判定について  
衛生試験所報告 1983; 101: 66-70.

- 松岡千明, 荻生俊昭, 小野寺博志, 古田京子, 佐倉康文, 前川昭彦, 林裕造, 中館正弘  
N-プロピル-N-ニトロソ尿素 (PNU) 投与開始週齢の相違による F344 ラット胸腺リンパ腫発生への影響  
衛生試験所報告 1983; 101: 61-5.
- Takahashi M, Furukawa F, Nagano K, Miyakawa Y, Kokubo T, Hayashi Y.  
Long-term in vivo carcinogenicity test of fish meal pyrolysate in Syrian golden hamsters.  
Gann. 1983 Oct; 74(5): 633-9.
- Kurokawa Y, Takahashi M, Kokubo T, Ohno Y, Hayashi Y.  
Enhancement by potassium bromate of renal tumorigenesis initiated by N-ethyl-N-hydroxyethylnitrosamine in F-344 rats.  
Gann. 1983 Oct; 74(5): 607-10.
- Takahashi M, Furukawa F, Kokubo T, Kurata Y, Hayashi Y.  
Effect of dibutyltin dichloride on incidence of pancreatic adenocarcinoma induced in hamsters by a single dose of N-nitrosobis(2-oxopropyl)amine.  
Cancer Lett. 1983 Oct; 20(3): 271-6.
- Kurokawa Y, Hayashi Y, Maekawa A, Takahashi M, Kokubo T, Odashima S.  
Carcinogenicity of potassium bromate administered orally to F344 rats.  
J Natl Cancer Inst. 1983 Nov; 71(5): 965-72.
- Kurokawa Y, Takahashi M, Hayashi Y, Ohno Y, Takamura N.  
Development of adenocarcinomas after transplantation of rat glandular stomachs treated in vitro with N-methyl-N'-nitro-N-nitrosoguanidine (MNNG).  
Experientia. 1983 Dec 15; 39(12): 1404-7.
- Takahashi M, Kokubo T, Furukawa F, Nagano K, Maekawa A, Kurokawa Y, Hayashi Y.  
Inhibition of spontaneous leukemia in F-344 rats by tetramethylthiuram disulfide (thiram).  
Gann. 1983 Dec; 74(6): 810-3.
- 高橋道人

ホルムアルデヒドの生体影響

ホルムアルデヒドに関する文献レビュー

日本科学技術情報センター p. 57-94 (1983)

- 高橋道人

ホルムアルデヒドの疫学的研究

ホルムアルデヒドに関する文献レビュー

日本科学技術情報センター p. 95-107 (1983)

- 林裕造

物動発がん試験の立場からみた短期変異原性テストの意味するもの  
環境変異原性研究 1983; 5(1): 23-5.

- Ohno Y, Kurokawa Y, Takahashi M, Takamura N, Imazawa T, Hayashi Y.  
Effect of NaCl diet on jejunal carcinogenesis in mice given N-methyl-N'-nitro-N-nitrosoguanidine orally.

Sci Rep Res Inst Tohoku Univ Med. 1983 Dec; 30(1-4): 23-8.

- Hayashi Y.

Initiation/promotion designs in carcinogenicity bioassays.

Toxicol Pathol. 1983; 11(2): 143-8.

- 黒川雄二

第13回国際癌会議印象記.

トキシコロジーフォーラム, 1983; 6: 83-4.

- 黒川雄二

中国のがん死亡統計図譜.

トキシコロジーフォーラム, 1983; 6: 548-9.

- 林裕造, 黒川雄二, 大森義仁

連続講座 医薬品の毒性評価-講座の企画にあたって-

トキシコロジーフォーラム, 1983; 6: 76-7.

- 林裕造, 黒川雄二

最近の動物長期テストの成果と問題点.

代謝, 1983; 20: 19-27.

【1984年】

- Hayashi Y, Imazawa T, Kokubo T, Kurokawa Y, Takahashi M.  
Nucleolar alterations of myocardial cells and glomerular epithelial cells in rats after a single administration of adriamycin.  
Toxicol Lett. 1984 Jan; 20(1): 105-10.
- 高橋道人  
発癌性試験における実験動物  
サイエンスフォーラム刊「トキシコロジーフォーラム」 1984; 7(1): 11-7.
- Kokubo T, Takahashi M, Furukawa F, Nagano K, Hayashi Y.  
Pathogenesis of paraquat-induced pulmonary hemorrhage in hamsters with special reference to arterial constriction.  
Acta Pathol Jpn. 1984 Jan; 34(1): 41-6.
- Maekawa A, Ogiu T, Matsuoka C, Onodera H, Furuta K, Kurokawa Y, Takahashi M, Kokubo T, Tanigawa H, Hayashi Y, Nakadate M, Tanimura A.  
Carcinogenicity of low doses of N-ethyl-N-nitrosourea in F344 rats; a dose-response study.  
Gann. 1984 Feb; 75(2): 117-25.
- Kokubo T, Takahashi M, Furukawa F, Nagano K, Hayashi Y, Takahashi T.  
A comparative histometrical analysis of renal inner medulla of man, swine, dog and hamster.  
Tohoku J Exp Med. 1984 Jan; 142(1): 77-88.
- Suzuki Y, Matsuyama M, Ogiu T.  
Morphologic characteristics of thymic lymphomas induced by N-nitroso-N-propylurea in F344 rats.  
J Natl Cancer Inst. 1984 Feb; 72(2): 367-73.
- Hayashi Y, Kokubo T, Takahashi M, Furukawa F, Otsuka H, Hashimoto K.  
Correlative morphological and biochemical studies on monocrotaline-induced pulmonary alterations in rats.  
Toxicol Lett. 1984 Apr; 21(1): 65-71.
- Takeuchi M, Ogiu T, Matsuoka C, Furuta K, Maekawa A, Nakadate M, Odashima S.  
Induction of digestive-tract tumors in F344 rats by continuous oral administration of N-

butyl-N-nitrosourea.

J Cancer Res Clin Oncol. 1984; 107(1): 32-7.

- 前川昭彦  
バイオマテリアルの生体組織反応  
病態生理, 1984; 3: 372-8.
- 古田京子, 前川昭彦, 林裕造  
GLP に添った病理検査法  
サイエンスフォーラム刊「トキシコロジーフォーラム」1984; 7(3): 278-83.
- Takahashi M, Kokubo T, Furukawa F, Kurokawa Y, Hayashi Y.  
Effects of sodium chloride, saccharin, phenobarbital and aspirin on gastric carcinogenesis in rats after initiation with N-methyl-N'-nitro-N-nitrosoguanidine.  
Gann. 1984 Jun; 75(6): 494-501.
- 高橋道人  
癌原性試験について(医薬品開発と動物実験)  
実験医学(Experimental medicine) 羊土社 1984; 2(3): 101-5.
- 高橋道人, 林裕造  
医原性の癌  
現代病理学大系 9D(腫瘍 IV) 中山書店 p. 69-78 (1984)
- Furihata C, Sato Y, Hosaka M, Matsushima T, Furukawa F, Takahashi M.  
NaCl induced ornithine decarboxylase and DNA synthesis in rat stomach mucosa.  
Biochem Biophys Res Commun. 1984 Jun 29; 121(3): 1027-32.
- 林裕造, 黒川雄二  
発癌物質の検査法  
新医科学大系 5, 『癌』, 中山書店 p. 183-201 (1984)
- 高橋道人  
発癌の促進と抑制  
新医科学大系 5, 『癌』, 中山書店 p. 239-251 (1984)
- 高橋道人  
発癌の抑制  
サイエンスフォーラム刊「新しい発癌のメカニズムと評価」 p. 251-261 (1984)

- 高橋道人, 林裕造  
抗悪性腫瘍剤の発癌性  
サイエンスフォーラム刊「新しい発癌のメカニズムと評価」 p. 425-432 (1984)
- Hayashi Y, Takahashi M, Kokubo T.  
Nutritional factors influencing the results of toxicology experiments in animals.  
J Toxicol Sci. 1984 Aug; 9(3): 219-34.
- Maekawa A, Ogiu T, Onodera H, Furuta K, Matsuoka C, Ohno Y, Tanigawa H, Salmo GS, Matsuyama M, Hayashi Y.  
Foreign-body tumorigenesis in rats by various kinds of plastics--induction of malignant fibrous histiocytomas.  
J Toxicol Sci. 1984 Aug; 9(3): 263-72.
- Kokubo T, Takahashi M, Furukawa F, Miyakawa Y, Hayashi Y.  
Three-dimensional morphological study of rat gastric lesions induced by N-methyl-N'-nitro-N-nitrosoguanidine. Structural atypia in carcinoma and non-carcinomatous lesions.  
Pathol Res Pract. 1984 May; 178(5): 477-82.
- 林裕造  
化学物質の発癌性評価  
Oncologia 1984; 10: 113-9.
- 前川昭彦, 荻生俊昭  
環境発癌物質及びその他の発癌物質  
現代病理学大系 9B (腫瘍 II) 中山書店 p. 158-177 (1984)
- Maekawa A, Onodera H, Tanigawa H, Furuta K, Takahashi M, Kurokawa Y, Kokubo T, Ogiu T, Uchida O, Kobayashi K, Hayashi Y.  
Spontaneous tumors of the nervous system and associated organs and/or tissues in rats.  
Gann. 1984 Sep; 75(9): 784-91.
- Sakura Y, Ogiu T, Imamura N, Furuta K, Matsuoka C, Odashima S.  
Development of thymic lymphomas by oral administration of N-nitroso-N-propylurea and establishment of transplantable lines of thymic lymphoma in F344 rats.  
J Natl Cancer Inst. 1984 Sep; 73(3): 757-62.
- 高橋道人

胃癌発生についての研究の動向

癌と化学療法社刊「消化器がん研究の展望」 p. 25-33 (1984)

- 高橋道人  
自然発生腫瘍を抑制する化合物  
サイエンスフォーラム刊「トキシコロジーフォーラム」 1984; 7(6): 607-15.
- 古田京子, 荻生俊昭, 松岡千明, 前川昭彦  
N-ブチル-N ニトロソ尿素 (BNU) による白血病発生に対する免疫抑制剤及び同系骨髄細胞移植の影響 (I) 初期の変化について  
衛生試験所報告 1984; 102: 62-6.
- 荻生俊昭, 古田京子, 松岡千明, 前川昭彦  
N-ブチル-N ニトロソ尿素 (BNU) による白血病発生に対する免疫抑制剤及び同系骨髄細胞移植の影響 (II) 長期発癌実験による白血病発生への影響  
衛生試験所報告 1984; 102: 66-70.
- 古川文夫, 豊田和弘, 小久保武, 高橋道人, 林裕造  
肝癌プロモーターの検索方法の確立に関する実験的研究  
—フェノバルビタール, ブチルヒドロキシトルエン, バルビタールのプロモーション作用について—  
衛生試験所報告 1984; 102, 71-6.
- Kurokawa Y, Takamura N, Matsushima Y, Imazawa T, Hayashi Y.  
Studies on the promoting and complete carcinogenic activities of some oxidizing chemicals in skin carcinogenesis.  
Cancer Lett. 1984 Oct; 24(3): 299-304.
- 高橋道人  
がん原性試験法  
Fragrance Journal 臨時増刊 1984; 5: 290-3.
- 林裕造, 高橋道人  
抗癌剤の毒性評価  
(II 癌化学療法の臨床 ⑤)  
癌の化学療法 p. 47-54 (1984)

- Maekawa A, Ogiu T, Onodera H, Furuta K, Matsuoka C, Ohno Y, Tanigawa H, Salmo GS, Matsuyama M, Hayashi Y.  
Malignant fibrous histiocytomas induced in rats by polymers.  
J Cancer Res Clin Oncol. 1984; 108(3): 364-5.
- 林裕造, 高橋道人, 青木繁伸  
化学物質の発がん性評価  
食品衛生研究 1984; 34(12): 23-46.or (1078-1100.)
- 林裕造, 高橋道人  
前臨床試験分野における病理学的診断と評価  
国際病理アカデミー日本支部 1984 年度病理学教育セミナー p. 1-8 (1984)
- Hasegawa R, St John MK, Cano M, Issenberg P, Klein DA, Walker BA, Jones JW, Schnell RC, Merrick BA, Davies MH, McMillan DT, Cohen SM..  
Bladder freeze ulceration and sodium saccharin feeding in the rat: Examination for urinary nitrosamines, mutagens and bacteria, and effects on hepatic microsomal enzymes.  
Food Chem Toxicol. 1984 Dec; 22(12): 935-42.
- **【1985 年】**
- 高橋道人  
生活環境中における胃癌発生要因  
臨床科学 1985; 21(1): 71-6.
- Shirai T, Takahashi M, Fukushima S, Ito N.  
Marked epithelial hyperplasia of the rat glandular stomach induced by long-term administration of iodoacetamide.  
Acta Pathol Jpn. 1985 Jan; 35(1): 35-43.
- 林裕造, 前川昭彦  
制癌剤の毒性試験と副作用  
サイエンスフォーラム刊「トキシコロジーフォーラム」 1985; 8(1): 3-11.
- 前川昭彦, 荻生俊昭, 中館正弘  
N-ニトロソ化合物の化学構造と臓器特異的発癌性  
サイエンスフォーラム刊「トキシコロジーフォーラム」 1985; 8(2): 221-43.

- 林裕造  
環境化学物質の発がん性評価に関する国際協力研究  
癌と化学療法 1985; 12(3) Part. II: 579-84.
- Kurokawa Y, Hayashi Y, Maekawa A, Takahashi M, Kukubo T.  
High incidences of pheochromocytomas after long-term administration of retinol acetate to F344/DuCrj rats.  
J Natl Cancer Inst. 1985 Mar; 74(3): 715-23.
- 林裕造  
発癌性評価における諸問題  
衛生化学 1985; 31: 15-8.
- Furukawa F, Kishimoto Y, Toyoda K, Satou H, Takahashi M, Hayashi Y.  
Lack of carcinogenicity of 8-nitroquinoline on long-term in vivo test in hamsters.  
J Toxicol Sci. 1985 May; 10(2): 101-6.
- 林裕造, 高橋道人, 前川昭彦, 黒川雄二, 小久保武  
環境汚染物質の発癌促進作用の評価に関する研究  
「昭和 59 年度 新汚染物質の評価並びに汚染防止に関する総合研究」  
環境庁企画調整局研究調整課編 1985; 20: 1-10.
- 林裕造, 森本和滋, 前川昭彦  
薬物誘発性脂質症 (薬物の蓄積と毒性)  
サイエンスフォーラム刊「トキシコロジーフォーラム」 1985; 8(4): 468-79.
- Maekawa A, Matsuoka C, Onodera H, Tanigawa H, Furuta K, Ogiu T, Mitsumori K, Hayashi Y.  
Organ-specific carcinogenicity of N-methyl-N-nitrosourea in F344 and ACI/N rats.  
J Cancer Res Clin Oncol. 1985; 109(3): 178-82.
- Takizawa H, Sato S, Kitajima H, Konishi S, Iwata K, Hayashi Y.  
Mouse skin melanoma induced in two stage chemical carcinogenesis with 7,12-dimethylbenz[a]anthracene and croton oil.  
Carcinogenesis. 1985 Jun; 6(6): 921-3.
- Ogiu T, Furuta K, Matsuoka C, Maekawa A, Azuma I.  
Effect of Nocardia rubra cell wall skeleton and/or cyclophosphamide on

leukemogenesis induced by N-ethyl-N-nitrosourea in Donryu rats.

J Cancer Res Clin Oncol. 1985; 109(3): 173-7.

- Kurokawa Y, Aoki S, Imazawa T, Hayashi Y, Matsushima Y, Takamura N.  
Dose-related enhancing effect of potassium bromate on renal tumorigenesis in rats initiated with N-ethyl-N-hydroxyethyl-nitrosamine.  
Jpn J Cancer Res. 1985 Jul; 76(7): 583-9.
- 林裕造, 高橋道人  
第一次予防の可能性  
代謝 22 (臨時増刊号「癌 '85」) p. 3-7 (1985)
- Maekawa A, Onodera H, Furuta K, Tanigawa H, Ogiu T, Hayashi Y.  
Lack of evidence of carcinogenicity of technical-grade piperonyl butoxide in F344 rats: selective induction of ileocaecal ulcers.  
Food Chem Toxicol. 1985 Jul; 23(7): 675-82.
- Ogiu T, Sakura Y, Maekawa A.  
Sequential observations of thymic lymphoma development induced in 10-week-old F344 rats by N-propyl-N-nitrosourea.  
Acta Pathol Jpn. 1985 Sep; 35(5): 1191-200.
- 前川昭彦, 大森義仁  
新規化学物質の安全性評価について  
有機合成化学 1985; 43(10): 962-6.
- Ogiu T, Matsuoka C, Furuta K, Maekawa A.  
Relation between development of leukemia and duration of N-nitroso-N-ethylurea treatment in Donryu rats.  
J Natl Cancer Inst. 1985 Oct; 75(4): 743-9.
- 小野寺博志, 谷川廣行, 松島裕子, 前川昭彦, 黒川雄二, 林裕造  
臭素酸カリウム投与によるラット腎尿細管上皮に見られた Eosinophilic body について  
衛生試験所報告 1985; 103: 15-20.
- 佐藤秀隆, 豊田和弘, 古川文夫, 小久保武, 高橋道人, 林裕造  
F344 ラットにおける塩化第二鉄の癌原性試験実施にあたっての予備試験 (亜慢性毒性) の成果について

衛生試験所報告 1985; 103: 21-8.

- 林裕造  
危険性評価-安全性ファクター (セッション II)  
日本国際生命科学協会 食品関連物質の安全性評価に関する  
ILSI 国際シンポジウム講演録 p. 175-183 (1985)
- 黒川雄二  
臭素酸カリウムの毒性及び発癌性について  
抗酸菌病研究所雑誌 1985; 37(2): 139-49.
- Takahashi M.  
Experimental pancreatic carcinogenesis in Syrian golden hamsters  
Exp. Path. 1985; 28(3): 147-8.
- Takahashi M.  
Adenoma, Stomach, Rat (The gastrointestinal tract : 3. Stomach)  
Monographs on Pathology of Laboratory Animals Digestive System p. 296-300 (1985)
- Takahashi M.  
Leiomyoma and leiomyosarcoma, Stomach, Rat (The gastrointestinal tract : 3.  
Stomach)  
Monographs on Pathology of Laboratory Animals Digestive System p. 310-314 (1985)
- Kurokawa Y, Matsushima M, Imazawa T, Takamura N, Takahashi M, Hayashi Y.  
Promoting effect of metal compounds on rat renal tumorigenesis  
Journal of the American College of Toxicology 1985; 4(6): 321-30.
- Kurokawa Y, Imazawa T, Matsushima M, Takamura N, Hayashi Y.  
Lack of promoting effect of sodium chlorate and potassium chlorate in two-stage rat  
renal carcinogenesis  
Journal of the American College of Toxicology 1985; 4(6): 331-7.
- Ogiu T, Maekawa A, Narisawa T.  
Intestinal tumors induced in the rat by various N-nitrosoureas  
In: Animal models for intestinal diseases. Ed. Carl J. Pfeiffer  
CRC press, Florida p. 79-98 (1985)
- Hasegawa R, Greenfield RE, Murasaki G, Suzuki T, Cohen SM.  
Initiation of urinary bladder carcinogenesis in rats by freeze ulceration with sodium

saccharin promotion.

Cancer Res. 1985 Apr; 45(4): 1469-73.

- Hasegawa R, Cohen SM.  
Immunohistochemical study of keratin in proliferative bladder epithelium induced by freezing, cyclophosphamide or N-[4-(5-nitro-2-furyl)-2-thiazolyl]formamide in the rat. Carcinogenesis. 1985 Mar; 6(3): 409-14.
- Takamura N, Kurokawa Y, Matsushima Y, Imazawa T, Onodera H, Hayashi Y.  
Long-term oral administration of potassium bromate in male Syrian golden hamsters. Sci Rep Res Inst Tohoku Univ Med. 1985 Dec; 32(1-4): 43-6.
- Hayashi Y.  
Histologic typing of liver tumors in rats, mice and hamsters-a workshop report Exp. Path. 1985; 28(3): 140-1.  
【1986年】
- Takahashi M, Hasegawa R, Furukawa F, Toyoda K, Sato H, Hayashi Y.  
Effects of ethanol, potassium metabisulfite, formaldehyde and hydrogen peroxide on gastric carcinogenesis in rats after initiation with N-methyl-N'-nitro-N-nitrosoguanidine. Jpn J Cancer Res. 1986 Feb; 77(2): 118-24.
- Takahashi M.  
Experimental gastric carcinogenesis  
Gann Monograph on Cancer Research. 1986; 31: 35-43.
- 高橋道人  
大腸癌  
第7章 トピックス① 実験モデル  
図説臨床[癌]シリーズ 1986; 2: 128-37.
- Takahashi M, Furukawa F, Toyoda K, Sato H, Hasegawa R, Hayashi Y.  
Effects of four antioxidants on N-methyl-N'-nitro-N-nitrosoguanidine initiated gastric tumor development in rats. Cancer Lett. 1986 Feb; 30(2): 161-8.
- Sugiyama K, Nagase S, Maekawa A, Onodera H, Hayashi Y.  
High susceptibility of analbuminemic rats to gastric tumor induction by N-methyl-N'-

nitro-N-nitrosoguanidine.

Jpn J Cancer Res. 1986 Mar; 77(3): 219-21.

- Hasegawa R, Cohen SM.  
The effect of different salts of saccharin on the rat urinary bladder.  
Cancer Lett. 1986 Mar; 30(3): 261-8.
- Hasegawa R, Cohen SM, St John M, Cano M, Ellwein LB.  
Effect of dose on the induction of urothelial proliferation by N-[4-(5-nitro-2-furyl)-2-thiazolyl]formamide and its relationship to bladder carcinogenesis in the rat.  
Carcinogenesis. 1986 Apr; 7(4): 633-6.
- Kurokawa Y.  
Regional problems relating to health hazards from drinking-water in Japan  
In: Evaluation of Methods for Assessing Human Health Hazards from Drinking Water, IARC Lyon, Jan. Ed. RF.Packham. IARC Internal Technical Report, 86/001 p. 37-43 (1986)
- Maekawa A, Onodera H, Tanigawa H, Kanno J, Furuta K, Hayashi Y.  
Induction of Sertoli cell tumors in the rat ovary by N-alkyl-N-nitrosoureas.  
J Cancer Res Clin Oncol. 1986; 111(2): 173-6.
- 高橋道人  
癌と食事・栄養に関する実験的アプローチ  
消化器発癌に対する食塩の影響  
癌の臨床 1986; 32(6): 667-73.
- 高橋道人  
第7章 前臨床試験, 第6節 毒性試験  
6. ガン原性試験  
新医薬品開発要覧 p. 606-614 (1986)
- 福島昭治, 長谷川良平  
膀胱癌  
第6章 トピックス① 発生と進展ー1 ラット  
図説臨床[癌]シリーズ 1986; 4: 117-27.
- Konishi N, Kitahori Y, Shimoyama T, Takahashi M, Hiasa Y.  
Effects of sodium chloride and alcohol on experimental esophageal carcinogenesis

induced by N-nitrosopiperidine in rats.

Jpn J Cancer Res. 1986 May; 77(5): 446-51.

- Takahashi M, Furukawa F, Miyakawa Y, Sato H, Hasegawa R, Hayashi Y.  
3-Amino-1-methyl-5H-pyrido[4,3-b]indole initiates two-stage carcinogenesis in mouse skin but is not a complete carcinogen.  
Jpn J Cancer Res. 1986 Jun; 77(6): 509-13.
- Kurokawa Y, Matsushima Y, Imazawa T, Takamura N, Maekawa A, Takahashi M, Hayashi Y.  
Long-term in vivo carcinogenicity study of nalidixic acid in CDF1 mice.  
Food Chem Toxicol. 1986 Apr; 24(4): 319-23.
- Maekawa A, Onodera H, Tanigawa H, Furuta K, Kanno J, Mochizuki M, Takeda K, Okada M.  
Carcinogenicity of N-alkyl-N-(1-hydroperoxyalkyl) nitrosamines after intravenous injections in F344 rats.  
Carcinogenesis. 1986 Aug; 7(8): 1313-6.
- Naito Z, Takahashi M, Furukawa F, Toyoda K, Hasegawa R, Hayashi Y.  
Scanning electron microscopic study of precancerous and cancerous pancreatic lesions induced by N-nitrosobis (2-oxopropyl) amine in Syrian golden hamsters.  
Acta Pathol Jpn. 1986 Sep; 36(9): 1359-66.
- Maekawa A, Onodera H, Tanigawa H, Furuta K, Matsuoka C, Kanno J, Ogiu T, Hayashi Y.  
Spontaneous neoplastic and non-neoplastic lesions in aging Donryu rats.  
Jpn J Cancer Res. 1986 Sep; 77(9): 882-90.
- Sakata T, Hasegawa R, Johansson SL, Zenser TV, Cohen SM.  
Inhibition by aspirin of N-[4-(5-nitro-2-furyl)-2-thiazolyl]formamide initiation and sodium saccharin promotion of urinary bladder carcinogenesis in male F344 rats.  
Cancer Res. 1986 Aug; 46(8): 3903-6.
- Hasegawa R, Tsuda H, Shirai T, Kurata Y, Masuda A, Ito N.  
Effect of timing of partial hepatectomy on the induction of preneoplastic liver foci in rats given hepatocarcinogens.  
Cancer Lett. 1986 Jul; 32(1): 15-23.
- Hayashi Y, Kurokawa Y, Maekawa A.

Risk evaluation of tumor-inducing substances in foods

In: Diet nutrition and cancer, Eds. Hayashi Y. et al

Japan Sci. Soc. press, Tokyo/VNU Sci. Press, Utrecht p. 259-303 (1986)

- Takahashi M, Hasegawa R.  
Enhancing effects of dietary salt on both initiation and promotion stages of rat gastric carcinogenesis  
In: Diet nutrition and cancer, Eds. Hayashi Y et al  
Japan Sci. Soc. press, Tokyo/VNU Sci. Press, Utrecht p. 169-182 (1986)
- 古川文夫, 豊田和弘, 長谷川良平, 佐藤秀隆, 張子俊, 内藤善哉, 高橋道人, 林裕造  
ハムスター臍における島内・島外の内分泌細胞の免疫組織化学的特性とその分布  
衛生試験所報告 1986; 104: 77-82.
- 豊田和弘, 古川文夫, 長谷川良平, 佐藤秀隆, 張子俊, 高橋道人, 林裕造  
毒性試験の眼球標本作製における Davidson 固定法の有用性  
—ラット galactose 白内障をモデルとして—  
衛生試験所報告 1986; 104: 82-6.
- 佐藤秀隆, 豊田和弘, 長谷川良平, 古川文夫, 張子俊, 高橋道人, 林裕造  
アドリアマイシン毒性の発現とその進展に関する病理学的研究  
—腎病変の進展と尿細管酵素活性の変動—  
衛生試験所報告 1986; 104:87-91.
- Hasegawa R, Fukushima S, Furukawa F, Takahashi M, Ito N.  
Aberrant colonic epithelium in the bladder: report of a case.  
J Urol. 1986 Oct; 136(4): 901-2.
- Johansson SL, Sakata T, Hasegawa R, Zenser TV, Davis BB, Cohen SM.  
The effect of long-term administration of aspirin and sodium saccharin on the rat kidney.  
Toxicol Appl Pharmacol. 1986 Oct; 86(1): 80-92.
- Kurokawa Y, Aoki S, Matsushima Y, Takamura N, Imazawa T, Hayashi Y.  
Dose-response studies on the carcinogenicity of potassium bromate in F344 rats after

long-term oral administration.

J Natl Cancer Inst. 1986 Oct; 77(4): 977-82.

- Maekawa A, Onodera H, Tanigawa H, Furuta K, Kanno J, Matsuoka C, Ogiu T, Hayashi Y.

Lack of carcinogenicity of triethanolamine in F344 rats.

J Toxicol Environ Health. 1986; 19(3): 345-57.

- 黒川雄二

学会報告 II. Conference on Non-mutagenic Carcinogens に出席して  
トキシコロジーフォーラム 1986; 9(6): 660-2.

- 豊田和弘, 佐藤秀隆, 古川文夫, 長谷川良平, 高橋道人, 林裕造  
F344 ラットにおける Phenytoin の癌原性試験実施にあたっての亜慢性毒性試験

医薬品研究 1986; 17(6): 1219-27.

- Miyakawa Y, Takahashi M, Furukawa F, Toyoda K, Sato H, Hayashi Y.

Pneumotoxicity of butylated hydroxytoluene applied dermally to CD-1 mice.

Toxicol Lett. 1986 Nov; 34(1): 99-105.

- Jang JJ, Takahashi M, Furukawa F, Toyoda K, Hasegawa R, Sato H, Hayashi Y.

Inhibitory effect of dibutyltin dichloride on pancreatic adenocarcinoma development by N-nitrosobis(2-oxopropyl)amine in the Syrian hamster.

Jpn J Cancer Res. 1986 Nov; 77(11): 1091-4.

- 林裕造, 藤原公策

病理組織診断をめぐって (その2) —肝の基本病変—

ワークショップⅢ p. 461 (1986)

- 長谷川良平, 菅野純

ラット肝の腫瘍性病変について

ワークショップⅢ p. 462-469 (1986)

- 林裕造

トキシコロジー —主題の解説と雑誌の評価—

薬学図書館 1986; 31(3): 123-35.

- Hayashi Y, Kurokawa Y, Maekawa A, Takahashi M.

Strategy of long-term animal testing for quantitative evaluation of chemical carcinogenicity.

Dev Toxicol Environ Sci. 1986; 12: 383-91.

- Tobe M, Furuya T, Kawasaki Y, Naito K, Sekita K, Matsumoto K, Ochiai T, Usui A, Kokubo T, Kanno J, Hayashi Y.

Six-month toxicity study of butylated hydroxyanisole in beagle dogs.

Food Chem Toxicol. 1986 Oct-Nov; 24(10-11): 1223-8.

- Hasegawa R, Takahashi M, Kokubo T, Furukawa F, Toyoda K, Sato H, Kurokawa Y, Hayashi Y.

Carcinogenicity study of sodium hypochlorite in F344 rats.

Food Chem Toxicol. 1986 Dec; 24(12): 1295-302.

- Nagase S, Shumiya S, Takahashi M, Maekawa A, Hayashi Y.

Urinary bladder carcinogenesis by N-butyl-N-(4-hydroxybutyl)-nitrosamine in an albuminemic congenic strain of rats with an ACI genetic background.

Jpn J Cancer Res. 1986 Dec; 77(12): 1198-200.

- 高橋道人

発がん性試験の評価

食品衛生研究 1986; 37(2): 7-18.

- Kurokawa Y, Takayama S, Konishi Y, Hiasa Y, Asahina S, Takahashi M, Maekawa A, Hayashi Y.

Long-term in vivo carcinogenicity tests of potassium bromate, sodium hypochlorite, and sodium chlorite conducted in Japan.

Environ Health Perspect. 1986 Nov; 69: 221-35.

- Merrick BA, Davies MH, Hasegawa R, St John MK, Cohen SM, Schnell RC.

Effect of sodium selenite upon bromobenzene toxicity in rats. I. Hepatotoxicity.

Toxicol Appl Pharmacol. 1986 Apr; 83(2): 271-8.

- Matsushima Y, Takamura N, Imazawa T, Kurokawa Y, Hayashi Y.

Lack of carcinogenicity of potassium bromate after subcutaneous injection to newborn mice and newborn rats.

Sci Rep Res Inst Tohoku Univ Med. 1986 Dec; 33(1-4): 22-6.

- 林裕造

<第10回研究会>学術講演会

癌原性試験の現状と問題点

関西実験動物研究会 p. 14-54 (1986)

- 林裕造, 高橋道人

変異原物質の疾患要因としての評価 -特に加年齢性病変の促進について-  
環境変異原研究 1986; 8: 37-40.

**【1987年】**

- Hayashi Y, Takahashi M.

Modulation of pancreatic acinar cell carcinogenesis by testosterone

In: Experimental pancreatic carcinogenesis, Eds. D.G. Scarpelli, J.K. Reddy, D.S. Longnecker

CRC Press, Inc. Boca Raton, Florida p. 200-206 (1987)

- Birt DF, Julius AD, Hasegawa R, St John M, Cohen SM.

Effect of L-tryptophan excess and vitamin B6 deficiency on rat urinary bladder cancer promotion.

Cancer Res. 1987 Mar 1; 47(5): 1244-50.

- 伊東信行, 林裕造

カラーアトラス実験腫瘍病理組織学

ソフトサイエンス社, (1987)

- 林裕造, 高橋道人, 伊東信行, 黒木登志夫

化学物質の発癌性評価

薬事日報社 (1987)

- Hasegawa R, St John M, Tibbels TS, Cohen SM.

Evaluation of epidermal cell kinetics following freezing or wounding of mouse skin and their potential as initiators of carcinogenesis.

J Invest Dermatol. 1987 May; 88(5): 652-6.

- Jang JJ, Furukawa F, Hasegawa R, Toyoda K, Sato H, Hayashi Y, Takahashi M.

Enhancing effect of cysteamine hydrochloride on the development of gastroduodenal tumors induced by N-methyl-N'-nitro-N-nitrosoguanidine in F344 rats.

Jpn J Cancer Res. 1987 Jun; 78(6): 571-6.

- Jang JJ, Takahashi M, Hasegawa R, Furukawa F, Toyoda K, Sato H, Miyakawa Y, Hayashi Y.  
Mammary and renal tumor induction by low doses of adriamycin in Sprague-Dawley rats.  
Carcinogenesis. 1987 Aug; 8(8): 1149-53.
- 林裕造, 長谷川良平  
発癌性試験の評価  
医薬品研究 1987; 18(4): 495 -504.
- 林裕造, 高橋道人  
発癌物質のヒトに対する危険度の総合評価  
代謝 臨時増刊号「癌 '87」 1987; 24: 3-7.
- Sato H, Takahashi M, Furukawa F, Miyakawa Y, Hasegawa R, Toyoda K, Hayashi Y.  
Initiating activity in a two-stage mouse skin model of nine mutagenic pyrolysates of amino acids, soybean globulin and proteinaceous food.  
Carcinogenesis. 1987 Sep; 8(9): 1231-4.
- Tanigawa H, Onodera H, Maekawa A.  
Spontaneous mesotheliomas in Fischer rats--a histological and electron microscopic study.  
Toxicol Pathol. 1987; 15(2): 157-63.
- Maekawa A, Hayashi Y.  
Granulosa/Theca cell tumor, ovary, rat  
In: Monogr. on Pathology of Laboratory Animals, Eds. T.C. Jones, U. Mohr, R.D. Hunt, Springer-Verlag, Berlin, p. 15-22 (1987)
- 前川昭彦  
化学物質による誘発腫瘍の組織発生  
II.脳  
サイエンスフォーラム刊「トキシコロジーフォーラム」1987; 10(5): 459-67.
- Jang JJ, Takahashi M, Furukawa F, Toyoda K, Hasegawa R, Sato H, Hayashi Y.  
Long-term in vivo carcinogenicity study of phenytoin (5,5-diphenylhydantoin) in F344 rats.  
Food Chem Toxicol. 1987 Sep; 25(9): 697-702.

- Meakawa A, Onodera H, Tanigawa H, Furuta K, Kanno J, Matsuoka C, Ogiu T, Hayashi Y.  
Long-term studies on carcinogenicity and promoting effect of phenylbutazone in Donryu rats.  
J Natl Cancer Inst. 1987 Sep; 79(3): 577-84.
- 今沢孝喜, 豊田和弘, 下地尚史, 佐藤秀隆, 古川文夫, 古田京子, 長谷川良平, 林裕造  
肝部分切除による肝再生の経時的変化  
—組織学的, 超微形態学的検索—  
衛生試験所報告 1987; 105: 37-42.
- 佐藤秀隆, 豊田和弘, 古川文夫, 長谷川良平, 高橋道人, 林裕造  
B6C3F1 マウスにおける dicofol の亜慢性毒性試験  
衛生試験所報告 1987; 105: 42-5.
- 古川文夫, 豊田和弘, 阿部弘, 長谷川良平, 佐藤秀隆, 高橋道人, 林裕造  
粗製トリプシンインヒビターの膵臓に与える影響および種差  
—病理組織学的および免疫組織化学的検索—  
衛生試験所報告 1987; 105: 46-50.
- 豊田和弘, 古川文夫, 佐藤秀隆, 岡宮英明, 高橋道人, 林裕造  
高血圧自然発症ラット (SHR) における食塩の臓器障害促進作用  
衛生試験所報告 1987; 105: 51-6.
- 大沢仲昭, 高橋道人  
医薬品の安全性試験成績の評価とヒトへの外挿 (1) 総論  
サイエンスフォーラム刊「トキシコロジーフォーラム」 1987; 10(5): 529-31.
- 高橋道人, 古川文夫  
化学物質による誘発腫瘍の組織発生 膵  
サイエンスフォーラム刊「トキシコロジーフォーラム」 1987; 10(5): 497-503.
- Maekawa A, Hayashi Y.  
Adenomatous hyperplasia, rete testis, rat  
In: Monographs on pathology of laboratory Animals, Genital System. Eds. T. C. Jones, U., Mohr, R. D. Hunt,

Springer-Verlag, Berlin, p. 234-6 (1987)

- Maekawa A, Onodera H, Tanigawa H, Furuta K, Kanno J, Ogiu T, Hayashi Y.  
Experimental induction of ovarian Sertoli cell tumors in rats by N-nitrosoureas.  
Environ Health Perspect. 1987 Aug; 73: 115-23.
- Morimoto K, Fukuoka M, Hasegawa R, Tanaka A, Takahashi A, Hayashi Y.  
DNA damage in urinary bladder epithelium of male F344 rats treated with 2-phenyl-  
1,4-benzoquinone, one of the non-conjugated urinary metabolites of sodium o-  
phenylphenate.  
Jpn J Cancer Res. 1987 Oct; 78(10): 1027-30.
- 大沢仲昭, 高橋道人  
解熱鎮痛消炎剤医薬品の安全性試験成績の評価とヒトへの外挿 (2)  
トキシコロジーフォーラム, 1987; 10: 636-48.
- Kasai H, Nishimura S, Kurokawa Y, Hayashi Y.  
Oral administration of the renal carcinogen, potassium bromate, specifically produces  
8-hydroxydeoxyguanosine in rat target organ DNA.  
Carcinogenesis. 1987 Dec; 8(12): 1959-61.
- Maekawa A, Matsuoka C, Onodera H, Tanigawa H, Furuta K, Kanno J, Jang JJ,  
Hayashi Y, Ogiu T.  
Lack of carcinogenicity of tartrazine (FD & C Yellow No. 5) in the F344 rat.  
Food Chem Toxicol. 1987 Dec; 25(12): 891-6.
- Kurokawa Y, Takamura N, Matsuoka C, Imazawa T, Matsushima Y, Onodera H,  
Hayashi Y.  
Comparative studies on lipid peroxidation in the kidney of rats, mice and hamsters and  
on the effect of cysteine, glutathione, and diethyl maleate treatment on mortality and  
nephrotoxicity after administration of potassium bromate.  
Journal of the American College of Toxicology. 1987; 6: 489-501.
- 大澤仲昭, 高橋道人  
血圧降下剤  
医薬品の安全性試験成績の評価とヒトへの外挿 (3)  
トキシコロジーフォーラム, 1987; 11 (1): 81-93.
- Sato H, Takahashi M, Furukawa F, Miyakawa Y, Hasegawa R, Toyoda K, Hayashi Y.

Initiating potential of 2-(2-furyl)-3-(5-nitro-2-furyl)acrylamide (AF-2), butylated hydroxyanisole (BHA), butylated hydroxytoluene (BHT) and 3,3',4',5,7-pentahydroxyflavone (quercetin) in two-stage mouse skin carcinogenesis.  
Cancer Lett. 1987 Dec; 38(1-2): 49-56.

- Kanno J, Matsuoka C, Furuta K, Onodera H, Maekawa A, Hayashi Y.  
Glandular changes associated with the spontaneous interstitial cell tumor of the rat testes.  
Toxicol Pathol. 1987; 15(4): 439-43.
- Hasegawa R, Fukushima S, Hirose M, Seki K, Takahashi M, Furukawa F, Toyoda K, Ito N.  
Histochemical demonstration of colonic type mucin in glandular metaplasia and adenocarcinoma of the human urinary bladder.  
Acta Pathol Jpn. 1987 Jul; 37(7): 1097-103.
- Kurokawa Y, Matsushima Y, Takamura N, Imazawa T, Hayashi Y.  
Relationship between the duration of treatment and the incidence of renal cell tumors in male F344 rats administered potassium bromate.  
Jpn J Cancer Res. (Gann), 1987; 78: 358-64.
- 黒川雄二  
腎腫瘍, 副腎腫瘍.  
「カラーアトラス 実験腫瘍病理組織学」, 伊東信行, 林裕造編集,  
ソフトサイエンス社 (1987)  
**【1988年】**
- 林裕造, 佐藤秀隆  
発ガン性試験の現状とその評価  
フードケミカル 1988; 3: 56-61.
- Hayashi Y, Tanaka S.  
Abstracts of Papers Presented at the International Symposium. Experimental protocol for reproductive toxicity testing on drugs  
Exp Pathol. 1988; 33: 2-6.
- Hasegawa R, Takahashi M, Furukawa F, Toyoda K, Sato H, Hayashi Y.  
Co-carcinogenic effect of retinyl acetate on forestomach carcinogenesis of male F344

rats induced with butylated hydroxyanisole.

Jpn J Cancer Res. 1988 Mar; 79(3): 320-8.

- 大澤仲昭, 高橋道人

抗悪性腫瘍剤

医薬品の安全性試験成績の評価とヒトへの外挿(4)

トキシコロジフォーラム 1988; 11(3): 279-91.

- Hasegawa R, Furukawa F, Toyoda K, Jang JJ, Yamashita K, Sato S, Takahashi M, Hayashi Y.

Study for tumor-initiating effect of acetaminophen in two-stage liver carcinogenesis of male F344 rats.

Carcinogenesis. 1988 May; 9(5): 755-9.

- 前川昭彦, 小野寺博志

ACI, F344, Wistar および Donryu 系各ラットにおける自然発生腫瘍性および非腫瘍性病変

J Toxicol Pathol. 1988; 1: 13-7.

- 佐藤秀隆, 豊田和弘, 古川文夫, 岡宮英明, 下地尚史, 長谷川良平, 高橋道人, 林裕造, 宮川義史

各種加熱分解生成物, 食品成分物質, 抗腫瘍薬および金属化合物の皮膚二段階モデルにおける作用

J Toxicol Pathol. 1988; 1: 39-45.

- 渡辺敦光, 高橋忠照, 中川義基, 伊藤明弘, 梶原博毅, 古川文夫, 高橋道人
- X線照射ならびに食塩投与ラットに生じた動脈炎の経時的変化

J Toxicol Pathol. 1988; 1: 81-5.

- Takahashi M, Shumiya S, Maekawa A, Hayashi Y, Nagase S.

High susceptibility of an albuminemic congenic strain of rats with an F344 genetic background to induced bladder cancer and its possible mechanism.

Jpn J Cancer Res. 1988 Jun; 79(6): 705-9.

- Ogiu T, Fukami H, Maekawa A.

Induction of lung tumors and peritoneal mesotheliomas in F344 rats given intragastric N-propyl-N-nitrosourea and histochemical, immunohistochemical, and ultrastructural characteristics of induced mesotheliomas.

J Cancer Res Clin Oncol. 1988; 114(3): 259-65.

- 林裕造  
発癌物質のヒト癌発生に対する評価  
図説臨床〔癌〕シリーズ, 1988; 22: 38-42.
- 高橋道人  
食塩と胃癌  
図説臨床〔癌〕シリーズ, 1988; 22: 18-26.
- Hasegawa R, Takahashi M, Furukawa F, Toyoda K, Sato H, Jang JJ, Hayashi Y.  
Carcinogenicity study of tetramethylthiuram disulfide (thiram) in F344 rats.  
Toxicology. 1988 Oct; 51(2-3): 155-65.
- 下地尚史, 松島裕子, 今井田克己, 長谷川良平, 黒川雄二, 林裕造  
F344 ラットにおける potassium pyrophosphate の亜慢性毒性試験  
衛生試験所報告 1988; 106: 66-72.
- 今沢孝喜, 下地尚史, 篠田和俊, 今井田克己, 高橋道人, 林裕造  
タルクに含まれるアスベスト検出のための X線分析型走査電子顕微鏡の利用  
衛生試験所報告 1988; 106: 73-7.
- 古川文夫, 豊田和弘, 佐藤秀隆, 岡宮英明, 阿部弘, 高橋道人, 林裕造  
新生仔ハムスターの脾における内分泌細胞の免疫組織化学的特性  
衛生試験所報告 1988; 106: 78-82.
- 岡宮英明, 今沢孝喜, 佐藤秀隆, 古川文夫, 豊田和弘, 小野寺博志, 高橋道人, 林裕造  
分析型走査電子顕微鏡を用いたラット膀胱結石の解析ならびにその信頼性  
衛生試験所報告 1988; 106: 82-7.
- 下地尚史, 長谷川良平, 古川文夫, 豊田和弘, 今沢孝喜, 佐藤秀隆, 高橋道人, 林裕造  
エトキシキンおよび酢酸レチニールによるラット腎乳頭壊死および石灰化の増強要因  
J Toxicol Pathol. 1988; 1: 185-91.
- Hayashi Y.

Risk assessment of environmental carcinogens.

J Toxicol Sci. 1988 Nov; 13 (4): 247-51.

- Maekawa A, Onodera H, Kanno J, Furuta K, Nagaoka T, Todate A, Matsushima Y, Ohhara T, Kawazoe Y.

Carcinogenicity and organ specificity of N-trimethylsilylmethyl-N-nitrosourea (TMS-MNU), N-neopentyl-N-nitrosourea (neoPNU), and N-methyl-N-nitrosourea (MNU) in rats.

J Cancer Res Clin Oncol. 1988; 114(5): 473-6.

- Kurokawa Y, Takamura N, Matsushima Y, Imazawa T, Hayashi Y.

Promoting effect of peroxisome proliferators in two-stage rat renal tumorigenesis.

Cancer Lett. 1988 Dec 1; 43(1-2): 145-9.

- 林裕造

環境化学物質による発癌の病理

宿題報告 2. 日病会誌. 1988; 77: 3-24.

- Hayashi Y.

Regulation of genotoxic substances in Japan Proceedings, Management of risk from genotoxic substances in environment, 1988; 3-5: 230-241.

#### 【1989年】

- 高橋道人

in vivo 中期肝発癌物質検出法・ラットを用いて肝発癌物質を短期間で検出する新しい方法

医学のあゆみ 1989; 148 (5): 337.

- Toyo'oka T, Suzuki T, Saitou Y, Furukawa F, Takahashi M, Hayashi Y, Imai K.

Usage of ABD-F and SBD-F as Pre-chromatographic labeling reagents for the simultaneous determination of thiols and disulfides in biological specimens.

J Pharmacobio-Dyn. 1989; 12: 2.

- Rehm S, Takahashi M, Ward JM, Singh G, Katyal SL, Henneman JR.

Immunohistochemical demonstration of Clara cell antigen in lung tumors of bronchiolar origin induced by N-nitrosodiethylamine in Syrian golden hamsters.

Am J Pathol. 1989 Jan; 134(1): 79-87.

- Hasegawa R, Furukawa F, Toyoda K, Sato H, Shimoji N, Takahashi M, Hayashi Y.

In situ freezing of the urinary bladder: a trigger of rapid development of sodium o-phenylphenate-induced urinary bladder tumors in the rat.

Carcinogenesis. 1989 Mar; 10(3): 571-5.

- 前川昭彦, 荻生俊昭  
実験白血病・化学物質  
現代病理学大系 1989;18A: 292-7.
- 伊東信行, 北川知行, 林裕造, 小林博  
癌を語る [動物発癌実験の目指すもの]  
Oncologia, 1989; 22(2): 39-47.
- 林裕造, 山村雄一, 幕内雅敏, 西條長宏, 寺田正昭, 吉倉廣  
座談会. 癌研究の最前線  
高松宮妃癌研究基金, 二十年のあゆみ, p. 121-150 (1989)
- Maekawa A, Onodera H, Furuta K, Tanigawa H, Nagaoka T, Todate A, Matsushima Y, Ogiu T.  
Teratoma of the pituitary gland in a young male rat.  
J Comp Pathol. 1989 Apr; 100(3): 349-52.
- Hasegawa R, Furukawa F, Toyoda K, Sato H, Imaida K, Takahashi M.  
Sequential analysis of quinoline-induced hepatic hemangioendothelioma development in rats.  
Carcinogenesis. 1989 Apr; 10(4): 711-6.
- 前川昭彦  
毒性試験における病理検査のあり方と病変の実例 (げっ歯類の腫瘍性病変)  
食品衛生研究. 1989; 39: 35-45.
- Imaida K, Sato H, Okamiya H, Takahashi M, Hayashi Y.  
Enhancing effect of high fat diet on 4-nitroquinoline 1-oxide-induced pulmonary tumorigenesis in ICR male mice.  
Jpn J Cancer Res. 1989 Jun; 80(6): 499-502.
- Takahashi M, Sato H, Toyoda K, Furukawa F, Imaida K, Hasegawa R, Hayashi Y.  
Sodium o-phenylphenate (OPP-Na) promotes skin carcinogenesis in CD-1 female mice initiated with 7,12-dimethylbenz[a]anthracene.  
Carcinogenesis. 1989 Jul; 10(7): 1163-7.

- Hasegawa R, Sato H, Miyakawa Y.  
Squamous Cell Papilloma, Skin, Mouse.  
In: Integument and Mammary Glands. Eds. T.C. Jones, U. Mohr, R.D. Hunt,  
Springer-Verlag, Berlin. p. 19 - 24 (1989)
- Hasegawa R, Miyakawa Y, Sato S.  
Squamous Cell Carcinoma, Skin, Mouse.  
In: Integument and Mammary Glands. Eds. T.C. Jones, U. Mohr, R.D. Hunt,  
Springer-Verlag, Berlin. p. 31 - 38 (1989)
- Hasegawa R, Miyakawa Y, Sato S.  
Basal Cell Tumor, Skin, Mouse.  
In: Integument and Mammary Glands. Eds. T.C. Jones, U. Mohr, R.D. Hunt,  
Springer-Verlag, Berlin. p. 52 - 55 (1989)
- Maekawa A.  
Trichoepithelioma, Skin, Rat.  
In: Integument and Mammary Glands. Eds. T.C. Jones, U. Mohr, R.D. Hunt,  
Springer-Verlag, Berlin. p. 56 - 63 (1989)
- Kanno J.  
Melanocytic Tumors, Skin, Mouse.  
In: Integument and Mammary Glands. Eds. T.C. Jones, U. Mohr, R.D. Hunt,  
Springer-Verlag, Berlin. p. 63 - 70 (1989)
- Kanno J.  
Melanocytic Tumors, Skin, Hamster.  
In: Integument and Mammary Glands. Eds. T.C. Jones, U. Mohr, R.D. Hunt,  
Springer-Verlag, Berlin. p. 70 - 75 (1989)
- Takahashi M, Miyakawa Y.  
Mast Cell Tumor, Skin, Mouse.  
In: Integument and Mammary Glands. Eds. T.C. Jones, U. Mohr, R.D. Hunt,  
Springer-Verlag, Berlin. p. 112 - 117 (1989)
- Maekawa A, Onodera H, Matsushima Y, Nagaoka T, Todate A, Shibutani M, Kodama Y,  
Hayashi Y.  
Dose-response carcinogenicity in rats on low-dose levels of N-ethyl-N-nitrosourethane.  
Jpn J Cancer Res. 1989 Jul; 80(7): 632-6.

- Takahashi M, Furukawa F, Takahashi S, Nagase K, Imaida K, Hayashi Y.  
Elevated activity of pancreatic type amylase in the urine as an early indicator of pancreatic tumors in hamsters.  
Int J Pancreatol. 1989 Jul; 5(1): 47-53.
- 林裕造, 今井田克己, 畝山智香子  
高脂肪食と発癌  
代謝 「癌 89」 1989; 26: 37-42.
- Takahashi M, Okamiya H, Furukawa F, Toyoda K, Sato H, Imaida K, Hayashi Y.  
Effects of glyoxal and methylglyoxal administration on gastric carcinogenesis in Wistar rats after initiation with N-methyl-N'-nitro-N-nitrosoguanidine.  
Carcinogenesis. 1989 Oct; 10(10): 1925-7.
- Hayashi Y, Maekawa A, Yoshimura S.  
Neurotoxicity of Perhexiline Maleate in Rats.  
Nervous System. p. 74 - 77 (1989)
- Hayashi Y, Takahashi M, Hasegawa T.  
Systemic Degenerative Disorders of Primary Sensory Neurons in Rats Induced by 4-Hydroxyaminoquinoline 1-Oxide.  
Nervous System. p. 92 - 98 (1989)
- Kurokawa Y, Takahashi M, Maekawa A, Hayashi Y.  
Promoting effect of metal compounds on liver, stomach, kidney, pancreas, and skin carcinogenesis.  
J Amer College Toxicicol. 1989; 8: 1235-9.
- Hasegawa R, Yamashita K, Morimoto K, Furukawa F, Toyoda K, Shimoji N, Takahashi M, Hayashi Y.  
*In situ* freezing of the rat urinary bladder: DNA adduct formation in the bladder epithelium demonstrated by <sup>32</sup>P-postlabeling assay.  
Jpn J Cancer Res. 1989 Sep; 80(9): 826-32.
- 森本和滋, 橘高浩史, 辻和彦, 高橋淳, 古川文夫, 高橋道人, 林裕造  
アルカリ溶出法によるラット前胃扁平上皮細胞 DNA 損傷の検出  
衛生試験所報告 1989; 107: 25-8.
- 吉田順一, 下地尚史, 古田京子, 高村直子, 畝山智香子, 矢沢るり, 今井田克

己, 林裕造

F344 ラットにおける diphenylamine の 28 日間反復投与毒性試験

衛生試験所報告 1989; 107: 56-62.

- 篠田和俊, 岡宮英明, 今沢孝喜, 古川文夫, 豊田和弘, 佐藤秀隆, 高橋道人  
BrdU 免疫組織化学およびランタン・トレーサー法による 1, 3- dinitrobenzene の  
精巣毒性の病理学的解析  
衛生試験所報告 1989; 107: 63-7.
- 今沢孝喜, 豊田和弘, 篠田和俊, 岡宮英明, 古川文夫, 今井田克己, 高橋道  
人, 林裕造  
エトキシキン投与による腎石灰化および腎結石の分析型電子顕微鏡による解析:  
(超微形態学的観察ならびに元素分析)  
衛生試験所報告 1989; 107: 68-72.
- 豊田和弘, 佐藤元信, 佐藤秀隆, 古川文夫, 今沢孝喜, 今井田克己, 高橋道人  
ラットの上部消化管腫瘍発生におけるビタミン A 欠乏の影響  
衛生試験所報告 1989; 107: 73-7.
- 松島裕子, 小野寺博志, 永岡隆晴, 外館あさひ, 渋谷淳, 前川昭彦, 黒川雄  
二, 林裕造  
乳酸カルシウムの F344 ラットにおける亜慢性毒性試験  
衛生試験所報告 1989; 107: 78-83.
- 豊田和弘, 佐藤秀隆, 今井田克己, 古川文夫, 岡宮英明, 高橋道人, 林裕造  
F344 ラットにおける 5-Fluorouracil の亜慢性毒性試験  
医薬品研究 1989; 20: 1001-9.
- Ogiu T, Fukami H, Matsuyama M, Maekawa A.  
Thymic lymphomas induced by N-propyl-N-nitrosourea (PNU) in the BUF/Mna rat, an  
inbred strain with a high incidence of spontaneous thymoma.  
Acta Pathol Jpn. 1989 Nov; 39(11): 706-11.
- Morimoto K, Sato M, Fukuoka M, Hasegawa R, Takahashi T, Tsuchiya T, Tanaka A,  
Takahashi A, Hayashi Y.  
Correlation between the DNA damage in urinary bladder epithelium and the urinary 2-

phenyl-1,4-benzoquinone levels from F344 rats fed sodium o-phenylphenate in the diet.  
Carcinogenesis. 1989 Oct; 10(10): 1823-7.

- Hayashi Y.  
Carcinogenesis.  
Life Science Research 9Th Scientific Symposium. p. 147-157 (1989)
- 高橋道人, 林裕造  
「特集」環境汚染物質の毒性評価 1989, 発癌性  
水質汚染研究 1989; 12: 621-6.
- Toyo'oka T, Furukawa F, Suzuki T, Saito Y, Takahashi M, Hayashi Y, Uzu S, Imai K.  
Determination of thiols and disulfides in normal rat tissues and hamster pancreas  
treated with N-nitrosobis(2-oxopropyl)amine using 4-(aminosulfonyl)-7-fluoro-2,1,3-  
benzoxadiazole and ammonium 7-fluoro-2,1,3-benzoxadiazole-4-sulfonate.  
Biomed Chromatogr. 1989 Jul; 3(4): 166-72.
- 林裕造  
動物実験代替法におけるヒトへの外挿  
フレグランス ジャーナル 1989; 11: 52-5.
- Hayashi Y.  
Pathological implications of rat liver foci and relevance to regulatory decision-making:  
current status and future perspective.  
Toxicol Pathol. 1989; 17(4 Pt 1): 716-20.  
**【1990年】**
- Shimoji N, Imaida K, Hasegawa R, Matsuoka C, Uneyama CT, Takahashi M, Hayashi  
Y.  
Enhancing effect of oxymetholone, an anabolic steroid, on development of liver cell  
foci in rats initiated with N-diethylnitrosamine.  
Cancer Lett. 1990 Feb; 49(2): 165-8.
- Takahashi M, Furukawa F, Toyoda K, Sato H, Hasegawa R, Imaida K, Hayashi Y.  
Effects of various prostaglandin synthesis inhibitors on pancreatic carcinogenesis in  
hamsters after initiation with N-nitrosobis(2-oxopropyl)amine.  
Carcinogenesis. 1990 Mar; 11(3): 393-5.
- Maekawa A, Mitsumori K.

Spontaneous occurrence and chemical induction of neurogenic tumors in rats--influence of host factors and specificity of chemical structure.

Crit Rev Toxicol. 1990; 20(4): 287-310.

- Maekawa A, Kurokawa Y, Kanno J.  
Neoplasms of the adrenal cortex and medulla.  
In: Atlas of Tumor Pathology of the Fischer Rat. Eds; S. F. Stinson et al.  
CRC Press, Inc. Florida, p. 291-313, (1990)
- Maekawa A.  
Neoplasms of the female reproductive organs.  
In: Atlas of Tumor Pathology of the Fischer Rat. Eds; S. F. Stinson et al.  
CRC Press, Inc. Florida, p. 431- 472, (1990)
- Konishi Y, Mii Y, Maruyama H, Tsutsumi M, Maekawa A.  
Neoplasms of mesenchymal origin.  
In: Atlas of Tumor Pathology of the Fischer Rat. Eds; S. F. Stinson et al.  
CRC Press, Inc. Florida, p. 527-537, (1990)
- 林裕造  
化学物質による加齢性病変の発現に関する研究  
平成元年度科学研究費補助金一般研究(B)  
研究成果報告書, 1 - 12 (1990)
- Miyakawa Y, Sato SI, Kakimoto K, Takahashi M, Hayashi Y.  
Induction of cutaneous mast cell tumors by N-methyl-N'-nitro-N-nitrosoguanidine followed by TPA in female mice of 4 out of 5 strains tested.  
Cancer Lett. 1990 Jan; 49(1): 19-24.
- 高橋道人, 古川文夫, 岡宮英明, 篠田和俊, 畝山智香子, 長谷川亨  
胃粘膜病変の指標としての尿中過酸化脂質量の意義  
癌の臨床 1990; 36: 293-8.
- 林裕造, 今井田克己  
病理学  
安全性評価の基礎と実際, p. 41 - 55 (1990)
- 高橋道人  
発がん性の外挿

安全性評価の基礎と実際, p. 247 - 258 (1990)

- Maekawa A, Todate A, Onodera H, Matsushima Y, Nagaoka T, Shibutani M, Ogasawara H, Kodama Y, Hayashi Y.  
Lack of toxicity/carcinogenicity of monosodium succinate in F344 rats.  
Food Chem Toxicol. 1990 Apr; 28(4): 235-41.
- Hasegawa R, Furukawa F, Toyoda K, Sato H, Takahashi M, Hayashi Y.  
Urothelial damage and tumor initiation by urinary metabolites of sodium o-phenylphenate in the urinary bladder of female rats.  
Jpn J Cancer Res. 1990 May; 81(5): 483-8.
- Kurokawa Y, Maekawa A, Takahashi M, Hayashi Y.  
Toxicity and carcinogenicity of potassium bromate--a new renal carcinogen.  
Environ Health Perspect. 1990 Jul; 87: 309-35.
- Maekawa A, Nagaoka T, Onodera H, Matsushima Y, Todate A, Shibutani M, Ogasawara H, Kodama Y, Hayashi Y.  
Two-year carcinogenicity study of 6-mercaptopurine in F344 rats.  
J Cancer Res Clin Oncol. 1990; 116(3): 245-50.
- Nakamura A, Ikarashi Y, Tsuchiya T, Kaniwa MA, Sato M, Toyoda K, Takahashi M, Ohsawa N, Uchima T.  
Correlations among chemical constituents, cytotoxicities and tissue responses: in the case of natural rubber latex materials.  
Biomaterials. 1990 Jul; 11: 92-4.
- 前川昭彦  
癌原性化学物質のヒトに対する危険度評価  
放射線科学 Vol.33 No.7 (1990)
- 高橋道人  
発癌修飾因子. 1) 発癌促進または増強物質.  
クリニカ. Vol.17 No.11 (1990)
- Maekawa A, Matsushima Y, Onodera H, Shibutani M, Ogasawara H, Kodama Y, Kurokawa Y, Hayashi Y.  
Long-term toxicity/carcinogenicity of musk xylol in B6C3F1 mice.  
Food Chem Toxicol. 1990 Aug; 28(8): 581-6.

- 前川昭彦  
自然発生病変からみた F344 ラットの特性  
Exp Anim. 1990; 39(4): 507-17.
- Maekawa A, Onodera H, Matsushima Y, Nagaoka T, Todate A, Kanno J, Shibutani M, Ogasawara H, Yoshida J, Hayashi Y.  
High yields of granulosa cell tumors/luteomas in F344 rat ovaries after transplacental administration of N-nitrosobis(2-oxopropyl)amine.  
Jpn J Cancer Res. 1990 Nov; 81(11): 1077-80.
- Imaida K, Furukawa F, Toyoda K, Shimoji N, Okamiya H, Takahashi M, Hasegawa R.  
Effect of co-administration of N-methyl-N'-nitrosoguanidine and sodium chloride as an initiation procedure for a promoting effect of ethoxyquin on stomach tumorigenesis in F344 male rats.  
J Toxicol Pathol. 1990; 3: 53-6.
- 福島昭治, 今井田克己  
(腫瘍の形態学的特徴/ 癌の転移/ 腫瘍の生物学的特徴/ 発癌/ 癌の予防)  
新外科学大系 10A [別冊] p. 28-49, 中山書店, (1990)
- 林裕造, 高橋道人, 吉村博之  
抗癌剤の発癌性について  
癌と化学療法, 第 17 巻, 第 12 号, p. 2293-2298 (1990)
- 林裕造, 吉村博之  
食物, 栄養と癌  
KARKINOS, 第 3 巻, 第 9 号 (1990)
- Kanno J, Matsuoka C, Furuta K, Onodera H, Miyajima H, Maekawa A, Hayashi Y.  
Tumor promoting effect of goitrogens on the rat thyroid.  
Toxicol Pathol. 1990; 18(2): 239-46.
- 林裕造  
化学物質の発がん性リスクアセスメント  
衛生試験所報告 1990; 108: 1-16.
- 古川文夫, 今沢孝喜, 篠田和俊, 佐藤元信, 吉村博之, 今井田克己, 高橋道人, 林裕造

ハムスター膀胱発癌過程にみられる膀胱萎縮に対する粗製大豆トリプシンイヒビターの影響

衛生試験所報告 1990; 108: 57-61.

- 吉村博之, 篠田和俊, 岡宮英明, 古川文夫, 今井田克己, 高橋道人, 松村年郎, 長谷川亨  
喫煙曝露によるハムスターの気管・気管支および肺の初期変化と過酸化脂量  
衛生試験所報告 1990; 108: 62-6.
- 今沢孝喜, 古川文夫, 吉田順一, 篠田和俊, 今井田克己, 高橋道人, 林裕造  
Quinacrine 投与によるラットの肝および腎におけるミエリン小体と酸性フォスファターゼの電顕的局在  
衛生試験所報告 1990; 108: 66-70.
- 佐藤元信, 岡宮英明, 古川文夫, 篠田和俊, 今沢孝喜, 豊田和弘, 高橋道人  
F344 ラットにおける dicyclopentadiene の 28 日間反復投与毒性試験  
衛生試験所報告 1990; 108: 71-7.
- 佐藤秀隆, 豊田和弘, 古川文夫, 小笠原裕之, 今沢孝喜, 今井田克己, 高橋道人, 林裕造  
ラット新生仔の各種レクチンに対する染色性に関する研究 (成熟ラットとの比較)  
衛生試験所報告 1990; 108: 78-83.
- 小笠原裕之, 外館あさひ, 小野寺博志, 松島裕子, 渋谷淳, 吉田順一, 前川昭彦, 林裕造  
タンニン酸の F344 ラットにおける亜慢性毒性試験  
衛生試験所報告 1990; 108: 84-9.
- 松島裕子, 前川昭彦, 小野寺博志, 渋谷淳, 吉田順一, 黒川雄二, 林裕造  
Musk xylol の B6C3F1 マウスにおける毒性および癌原性試験  
衛生試験所報告 1990; 108: 89-94.
- 畝山智香子, 佐藤秀隆, 矢沢るり, 古田京子, 今井田克己, 林裕造  
マウス肺組織中のプロスタグランジン E<sub>2</sub> の定量  
衛生試験所報告 1990; 108: 111-3.

- Imaida K, Sato H, Ogasawara H, Miyakawa Y, Takahashi M, Hayashi Y.  
Scanning electron microscopic observation on preneoplastic and neoplastic lesions of the trachea in Syrian golden hamsters induced by diethylnitrosamine.  
J Toxicol Pathol. 1990; 3: 231-7.
- 古川文夫  
ハムスターの膵臓癌発生過程における内分泌細胞の免疫組織学的解析  
名市大医誌 1990; 41: 4
- Sato H, Toyoda K, Takamura N, Furukawa F, Hasegawa R, Fukuoka M, Imaida K, Takahashi M, Hayashi Y.  
Effects of 2-phenyl-1,4-benzoquinone and 2,5-dihydroxybiphenyl on two-stage mouse skin carcinogenesis.  
Cancer Lett. 1990 Dec 17; 55(3): 233-8.
- Nagaoka T, Onodera H, Matsushima Y, Todate A, Shibutani M, Ogasawara H, Maekawa A.  
Spontaneous uterine adenocarcinomas in aged rats and their relation to endocrine imbalance.  
J Cancer Res Clin Oncol. 1990; 116(6): 623-8.
- Hasegawa R, Furukawa F, Toyoda K, Takahashi M, Hayashi Y, Hirose M, Ito N.  
Inhibitory effects of antioxidants on N-bis(hydroxypropyl)nitrosamine-induced lung carcinogenesis in rats.  
Jpn J Cancer Res. 1990; 81(9): 871-7.
- 林裕造, 高橋道人  
男性ホルモン/ 蛋白同化ステロイド製剤と肝腫瘍  
医薬品の副作用 p. 104-108 (1990)
- 林裕造  
化学物質による加齢性病変の発現に関する研究  
平成元年度化学研究費補助金一般研究(B) 研究成果報告書 (1990)
- Takahashi M, Hasegawa R.  
Pathology of tumours in laboratory animals. Tumours of the rat. Tumours of the stomach.  
IARC Sci Publ. 1990; (99): 129-57.

- Maekawa A.  
Pathology of tumours in laboratory animals. Tumours of the rat. Tumours of the ovary.  
IARC Sci Publ. 1990; (99): 473-97.  
【1991年】
- 早川堯夫, 高橋道人, 田中悟, 松本清司, 戸部満寿夫  
バイオテクノロジー応用医薬のための前臨床試験実施に関する考察  
医薬品研究, 1991; 22(1): 28-40.
- Takahashi M, Imaida K.  
Modification of tumor development in the gastrointestinal tract.  
Prog Exp Tumor Res. 1991; 33: 58-75.
- 高橋道人, 伊東信行  
発がん性試験法  
毒性試験講座. 1991; 13: 1-53.
- 高橋道人  
瘰  
毒性試験講座. 1991; 13: 127-34.
- 菅野純, 林裕造, 青木繁伸  
化学物質の発がん性評価  
毒性試験講座. 1991; 13: 179-210.
- 林裕造, 吉村博之  
医薬品の投与と発がん  
医薬品研究. Vol.22, No.3 別刷 (1991)
- Miyakawa Y, Nishi Y, Kato K, Sato H, Takahashi M, Hayashi Y.  
Initiating activity of eight pyrolysates of carbohydrates in a two-stage mouse skin tumorigenesis model.  
Carcinogenesis. 1991 Jul; 12(7): 1169-73.
- Ushijima T, Tsutsumi M, Sakai R, Ishizaka Y, Takaku F, Konishi Y, Takahashi M, Sugimura T, Nagao M.  
Ki-ras activation in pancreatic carcinomas of Syrian hamsters induced by N-nitrosobis(2-hydroxypropyl)amine.

- Jpn J Cancer Res. 1991 Sep; 82(9): 965-8.
- Takahashi M, Imaida K, Furukawa F, Hayashi Y.  
Inhibitory effects of soybean trypsin inhibitor during initiation and promotion phases of N-nitrosobis(2-oxopropyl)amine-induced hamster pancreatic carcinogenesis.  
Prog Clin Biol Res. 1991; 369: 145-54.
  - Imaida K, Yoshida J, Uneyama C, Ogasawara H, Imazawa T, Hayashi Y.  
Dose-dependent enhancing effects of quinacrine on induction of preneoplastic glutathione S-transferase placental form positive liver cell foci in male F344 rats.  
Carcinogenesis. 1991 Oct; 12(10): 1911-5.
  - 林裕造, 長谷川良平  
総論・〔肉眼的観察の要点〕  
毒性試験講座. 毒性病理学 1991; 5: 9-21.
  - 林裕造, 今井田克己  
総論・〔毒性病理学の方法と実際〕  
毒性試験講座. 毒性病理学 1991; 5: 41-56.
  - 高橋道人  
腫瘍病変・〔消化器系〕  
毒性試験講座. 毒性病理学 1991; 5: 179-203.
  - 長谷川良平  
腫瘍病変・〔肝 臓〕  
毒性試験講座. 毒性病理学 1991; 5: 204-20.
  - 高橋道人  
非腫瘍病変・〔膵 臓〕  
毒性試験講座. 毒性病理学 1991; 5: 221-7.
  - 佐藤秀隆, 前川昭彦  
生殖器系・〔雌〕  
毒性試験講座. 毒性病理学 1991; 5: 419-34.
  - 三森国敏  
非腫瘍病変・〔神経系〕  
毒性試験講座. 毒性病理学 1991; 5: 435-61.

- 前川昭彦, 小野寺博志  
腫瘍性病変・〔皮膚・運動器系・感覚器系〕  
毒性試験講座. 毒性病理学 1991; 5: 502-7.
- 前川昭彦, 岡宮英明  
腫瘍病変・〔感覚器系〕  
毒性試験講座. 毒性病理学 1991; 5: 518-23.
- Maekawa A, Matsushima Y, Onodera H, Shibutani M, Yoshida J, Kodama Y, Kurokawa Y, Hayashi Y.  
Long-term toxicity/carcinogenicity study of calcium lactate in F344 rats.  
Food Chem Toxicol. 1991 Sep; 29(9): 589-94.
- Furukawa F, Imaida K, Okamiya H, Shinoda K, Sato M, Imazawa T, Hayashi Y, Takahashi M.  
Inhibitory effects of soybean trypsin inhibitor on induction of pancreatic neoplastic lesions in hamsters by N-nitrosobis(2-oxopropyl)amine.  
Carcinogenesis. 1991 Nov; 12(11): 2123-5.
- 佐藤元信, 古川文夫, 川西徹, 豊田和弘, 今沢孝善, 鈴木順子, 高橋道人  
F344 ラットにおける phenetidine の 28 日間反復投与毒性試験  
衛生試験所報告 1991; 109: 42-8.
- 阿瀬善也, 豊田和弘, 今井田克己, 林修次, 今沢孝喜, 林裕造, 高橋道人  
Stevioside の F344 ラットを用いた亜慢性毒性試験  
衛生試験所報告 1991; 109: 48-54.
- 小野寺博志, 松島裕子, 畝山智香子, 渋谷淳, 三森国敏, 前川昭彦, 林裕造  
ラット肝二段階発がんモデルにおけるフェノバルビタールの用量相関について  
衛生試験所報告 1991; 109: 55-60.
- 松島裕子, 小野寺博志, 小笠原裕之, 北浦啓介, 三森国敏, 前川昭彦, 高橋道人  
Cyanoguanidine の F344 ラットにおける亜慢性毒性試験  
衛生試験所報告 1991; 109: 61-6.
- 今沢孝喜, 佐藤元信, 古川文夫, 篠田和俊, 吉村博之, 豊田和弘, 高橋道人  
WBN/Kob ラット精巢の萎縮性病変における電顕ランタン・トレーサー法に

よる血液-精巣関門の検索

衛生試験所報告 1991; 109: 67-71.

- 吉田順一, 小野寺博志, 松島裕子, 渋谷淳, 前川昭彦, 高橋道人  
F344 ラットにおける m-nitroaniline の 28 日間反復経口投与毒性試験  
衛生試験所報告 1991; 109: 72-80.
- 戸部満寿夫, 田中悟, 川島邦夫, 内藤克司, 中路幸雄, 今井田克己, 宇佐美誠, 内田雄幸, 鎌田栄一, 児玉幸雄, 高田幸一, 安原加寿雄, 斉藤実, 梅村隆志, 小野寺博志, 古川文夫, 古田京子, 松島裕子, 豊田和弘, 今沢孝喜, 高橋道人, 高仲正, 黒川雄二, 林裕造  
OECD 反復投与毒性および生殖発生毒性併合試験法 (ReproTox) の有用性に関する研究  
衛生試験所報告 1991; 109: 119-36.
- Sato M, Shinoda K, Furukawa F, Imazawa T, Yoshimura H, Mitsumori K, Takahashi M.  
Sequential pathological study of spontaneous testicular degeneration in WBN/Kob rats.  
J Toxicol Pathol. 1991; 4: 165-73.
- Imaida K, Furihata C, Tatematsu M, Yoon CH, Furukawa F, Uneyama C, Takahashi M, Ito N, Hayashi Y.  
Immunohistochemical and biochemical identification of pepsinogen isozymes in the hamster lungs: induction by polychlorinated biphenyls.  
Toxicol Pathol. 1991; 19(3): 230-6.
- Takahashi M, Hasegawa T, Furukawa F, Okamiya H, Shinoda K, Imaida K, Toyoda K, Hayashi Y.  
Enhanced lipid peroxidation in rat gastric mucosa caused by NaCl.  
Carcinogenesis. 1991 Dec; 12(12): 2201-4.
- Nagaoka T, Onodera H, Matushima Y, Maekawa A.  
Two case reports of spontaneous gonadal stromal tumors in rats.  
J Toxicol Pathol. 1991; 4(2): 175-81.
- Nishikawa A, Tanaka T, Takeuchi T, Fujihira S, Mori H.  
The diagnostic significance of lactate dehydrogenase isoenzymes in urinary cytology.  
Br J Cancer. 1991 May; 63(5): 819-21.
- Hayashi Y, Maekawa A, Takahashi M, Imaida K.

Carcinogen risk assessment.

Toxicol Ind Health. 1991 Sep-Nov; 7(5-6): 297-304.

- 林裕造

発がん物質のリスクアセスメント

環境変異原研究, 1991; 13: 339-43.

- Takahashi M.

Carcinogenicity of Anticancer Agents:

J Toxicol Sci. 1991; 16 Supplement 2: 27-9.

【1992年】

- Furukawa F, Imaida K, Imazawa T, Hayashi Y, Takahashi M.

Modifying effects of soybean trypsin inhibitor on development of eosinophilic nodules and basophilic foci in the exocrine pancreas of male Sprague-Dawley rats treated with 4-hydroxyaminoquinoline 1-oxide.

Jpn J Cancer Res. 1992 Jan; 83(1): 40-4.

- Tanaka S, Kawashima K, Naito K, Usami M, Nakadate M, Imaida K, Takahashi M, Hayashi Y, Kurokawa Y, Tobe M.

Combined repeat dose and reproductive/developmental toxicity screening test (OECD): familiarization using cyclophosphamide.

Fundam Appl Toxicol. 1992 Jan; 18(1): 89-95.

- 古川文夫, 高橋道人

ラット膵のランゲルハンス氏島腫瘍発生における cortisol acetate の影響と免疫組織化学的検討

日本膵臓学会 膵臓, 1992; 7(1): 1-6.

- 高橋道人

発癌を修飾する食品成分

食品衛生ハンドブック. p. 314 - 320 (1992)

- Maekawa A, Onodera H, Ogasawara H, Matsushima Y, Mitsumori K, Hayashi Y.

Threshold dose dependence in phenobarbital promotion of rat hepatocarcinogenesis initiated by diethylnitrosamine.

Carcinogenesis. 1992 Mar; 13(3): 501-3.

- Furukawa F, Sato H, Imaida K, Toyoda K, Imazawa T, Takahashi M, Hayashi Y.

Induction of pancreatic tumors in male Syrian golden hamsters by intraperitoneal N-methyl-N-nitrosourea injection.

Pancreas. 1992; 7(2): 153-8.

- Takahashi M, Imaida K, Mitsumori K, Okamiya H, Shinoda K, Yoshimura H, Furukawa F, Hayashi Y.

Promoting effects of cigarette smoke on the respiratory tract carcinogenesis of Syrian golden hamsters treated with diethylnitrosamine.

Carcinogenesis. 1992 Apr; 13(4): 569-72.

- Ikarashi Y, Toyoda K, Ohsawa N, Uchima T, Tsuchiya T, Kaniwa M, Sato M, Takahashi M, Nakamura A.

Comparative studies by cell culture and in vivo implantation test on the toxicity of natural rubber latex materials.

J Biomed Mater Res. 1992 Mar; 26(3): 339-56.

- Nishikawa A, Prokopczyk B, Rivenson A, Zang E, Hoffmann D.

3-(methylnitrosamino)propionaldehyde in F344 rats.

Carcinogenesis. 1992 Mar; 13(3): 369-72.

- Nishikawa A, Sodum R, Chung FL.

Acute toxicity of trans-4-hydroxy-2-nonenal in Fisher 344 rats [corrected].

Lipids. 1992 Jan; 27(1): 54-8.

- 三森国敏

わが国の残留動物用医薬品の規制の方向

食品衛生研究 1992; 42(5): 7-16.

- 高橋道人

免疫毒性と発癌

免疫薬理 1992; 10(2): 151-154.

- Onodera H, Maekawa A,

Organ-specific carcinogenicity of n-methyl-n-nitrosourethane in rats.

J Toxicol Pathol. 1992; 5: 85-91.

- Ohgaki H, Hard GC, Hirota N, Maekawa A, Takahashi M, Kleihues P.

Selective mutation of codons 204 and 213 of the p53 gene in rat tumors induced by alkylating N-nitroso compounds.

- Cancer Res. 1992 May 15; 52(10): 2995-8.
- Imaida K, Uneyama C, Ogasawara H, Hayashi S, Fukuhara K, Miyata N, Takahashi M.  
Induction of colon adenocarcinomas in CD rats and lung adenomas in ICR mice by 6-nitrochrysene: comparison of carcinogenicity and aryl hydrocarbon hydroxylase induction in the target organs of each species.  
Cancer Res. 1992 Mar 15; 52(6): 1542-5.
  - Maekawa A, Onodera H, Ogasawara H, Matsushima Y, Yoshida J, Shibutani M, Mitsumori K, Hayashi Y.  
Dose-dependent promoting effect of phenobarbital on rat hepatocarcinogenesis.  
J Toxicol Pathol. 1992; 5: 47-53.
  - Tsuchiya T, Ikarashi Y, Toyoda K, Miyahara T, Takahashi M Nakamura A  
Toxicological evaluation for biomaterials: Examinations of radiation vulcanized natural rubber latex.  
Int J Radiat Appl Instrum, 1992; Part C39(6): 541-5.
  - Matsushima Y, Onodera H, Nagaoka T, Mitsumori K, Lu J, Maekawa A.  
Promoting effects of 6-mercaptopurine on carcinogenesis in various organs of F344 rats.  
Cancer Lett. 1992 Sep 30; 66(2): 147-53.
  - Sato M, Furukawa F, Toyoda K, Mitsumori K, Nishikawa A, Takahashi M.  
Lack of carcinogenicity of ferric chloride in F344 rats.  
Food Chem Toxicol. 1992 Oct; 30(10): 837-42.
  - 高橋道人  
毒性病理学の基礎  
ソフトサイエンス社 (1992)
  - Hayashi Y.  
Overview of genotoxic carcinogens and non-genotoxic carcinogens.  
Exp Toxicol Pathol. 1992 Dec; 44(8): 465-71.
  - Toyoda K, Imaida K, Mitsumori K, Sato H, Maekawa A, Onodera H, Takahashi M.  
Correlation between cataract and retinopathy due to lighting in F344 rats used in a long-term carcinogenicity study.  
J Toxicol Environ Health. 1992 Dec; 37(4): 495-509.
  - Wang M, Nishikawa A, Chung FL.

Differential effects of thiols on DNA modifications via alkylation and Michael addition by alpha-acetoxy-N-nitrosopyrrolidine.

Chem Res Toxicol. 1992 Jul-Aug; 5(4): 528-31.

- Nishikawa A, Furukawa F, Imazawa T, Yoshimura H, Mitsumori K, Takahashi M.  
Effects of caffeine, nicotine, ethanol and sodium selenite on pancreatic carcinogenesis in hamsters after initiation with N-nitrosobis(2-oxopropyl)amine.  
Carcinogenesis. 1992 Aug; 13(8): 1379-82.
- Furukawa F, Nishikawa A, Imaida K, Mitsui M, Enami T, Hayashi Y, Takahashi M.  
Inhibitory effects of crude soybean trypsin inhibitor on pancreatic ductal carcinogenesis in hamsters after initiation with N-nitrosobis(2-oxopropyl)amine.  
Carcinogenesis. 1992 Nov; 13(11): 2133-5.
- Takahashi M, Shinoda K Hayashi Y  
Nonneoplastic Changes in the Testis.  
Pathobiology of the Aging Rat. 1992; 1: 407-11.
- 高橋道人  
化学物質のリスクアセスメント  
食品衛生研究 Vol.42, No.12 (1992)
- 松島裕子, 小野寺博志, 三森国敏, 前川昭彦, 黒川雄二, 高橋道人  
F344 ラットを用いた diheptyl phthalate の 28 日間反復強制経口投与毒性試験.  
衛生試験所報告 1992; 110: 26-31.
- 榎並倫宣, 古川文夫, 三井雅之, 吉村博之, 今沢孝善, 西川秋佳, 高橋道人  
N-nitrosobis(2-oxopropyl)amine 投与ハムスターの臍および肝の急性変化における細胞増殖活性の検討.  
衛生試験所報告 1992; 110: 37-42.
- 三井雅之, 古川文夫, 鈴木順子, 榎並倫宣, 西川秋佳, 高橋道人  
1,1-Bis(t-butylperoxy)3,3,5-trimethyl cyclohexane のマウスにおける 13 週間亜慢性毒性試験.  
衛生試験所報告 1992; 110: 42-7.
- 古川文夫, 古田京子, 鈴木順子, 三井雅之, 榎並倫宣, 西川秋佳, 高橋道人  
増殖細胞核抗原(PCNA)免疫染色における抗原性の復活法.

臨床検査 1992; 36(12): 1275-78.

- Onodera H, Matsushima Y, Mitsumori K, Nagaoka T, Kitamura T, Lu J, Maekawa A.  
Association between ovarian tumors and uterine endometrial lesions in rats.  
J Toxicol Pathol. 1992; 5: 215-22.
- 古川文夫, 今沢孝善, 古田京子, 鈴木順子, 吉村博之, 西川秋佳, 高橋道人  
Nucleolar organizer regions (NORs)染色について  
実験病理組織技術研究会誌 1992; 1(1): 15-8.
- Kanno J, Onodera H, Furuta K, Maekawa A, Kasuga T, Hayashi Y.  
Tumor-promoting effects of both iodine deficiency and iodine excess in the rat thyroid.  
Toxicol Pathol. 1992; 20(2): 226-35.
- Nishikawa A, Furukawa F, Mitsui M, Enami T, Kawanishi T, Hasegawa T, Takahashi M.  
Inhibitory effect of calcium chloride on gastric carcinogenesis in rats after treatment  
with N-methyl-N'-nitro-N-nitrosoguanidine and sodium chloride.  
Carcinogenesis. 1992 Jul; 13(7): 1155-8.
- Takahashi M.  
Part I - The Rat 3. Urinary system.  
In: International classification of rodent tumours,  
Ed. U. Mohr, IARC Scientific Publications No.122 IARC. Lyon, (1992)  
【1993年】
- Hayashi Y, Morimoto K, Miyata N, Sato H.  
Quantitative cancer risk analysis of BHA based on integration of pathological and  
biological/biochemical information.  
Toxicol Industrial Health. 1993; 9: 243 - 258.
- Furukawa F, Nishikawa A, Imaida K, Imazawa T, Shinoda K, Takahashi M, Hayashi Y.  
Temporal dissociation between cell proliferation and eosinophilic foci development in  
the exocrine pancreas of rats initiated with 4-hydroxyaminoquinoline 1-oxide and  
administered soybean trypsin inhibitor.  
Carcinogenesis. 1993 Apr; 14(4): 607-10.
- Inui K, Mitsumori K, Harada T, Maita K.  
Quantitative analysis of neuronal damage induced by tri-ortho-cresyl phosphate in

Wistar rats.

Fundam Appl Toxicol. 1993 Jan; 20(1): 111-9.

- Aze Y, Toyoda K, Furukawa F, Mitsumori K, Takahashi M.  
Enhancing effect of ethanol on esophageal tumor development in rats by initiation of diethylnitrosamine.  
Carcinogenesis. 1993 Jan; 14(1): 37-40.
- Foiles PG, Miglietta LM, Nishikawa A, Kuśmierk JT, Singer B, Chung FL.  
Development of monoclonal antibodies specific for 1,N2-ethenodeoxyguanosine and N2,3-ethenodeoxyguanosine and their use for quantitation of adducts in G12 cells exposed to chloroacetaldehyde.  
Carcinogenesis. 1993 Jan; 14(1): 113-6.
- 高橋道人  
発がん動物モデル  
Oncologia, Vol.26, No.2 (1993)
- Toyoda K, Imaida K, Shirai T, Imazawa T, Takahashi M.  
Relationship between bisacodyl-induced urolithiasis and rat urinary bladder tumorigenesis.  
J Toxicol Environ Health. 1993 May; 39(1): 59-78.
- Nishikawa A, Furukawa F, Imazawa T, Toyoda K, Mitsui M, Hasegawa T, Takahashi M.  
Effects of hickory smoke condensate on gastric carcinogenesis in Wistar rats after treatment with N-methyl-N'-nitro-N-nitrosoguanidine and sodium chloride.  
Food Chem Toxicol. 1993 Jan; 31(1): 25-30.
- Ohgaki H, Furukawa F, Takahashi M, Kleihues P.  
K-ras mutations are frequent in pulmonary squamous cell carcinomas but not in adenocarcinomas of WBN/Kob rats induced by N-nitrosobis(2-oxopropyl)amine.  
Carcinogenesis. 1993 Jul; 14(7): 1471-3.
- Takahashi M, Toyoda K, Aze Y, Furuta K, Mitsumori K, Hayashi Y.  
The rat urinary bladder as a new target of heterocyclic amine carcinogenicity: tumor induction by 3-amino-1-methyl-5H-pyrido[4,3-b]indole acetate.  
Jpn J Cancer Res. 1993 Aug; 84(8): 852-8.
- 高橋道人  
毒性試験の判定基準

月刊フードケミカル 8月号 p. 73 - 79, (1993)

- Shibutani M, Maekawa A, Okeda R, Mitsumori K, Imazawa T, Yoshida J, Onodera H, Hayashi Y.  
An experimental model for anaplastic astrocytomas and glioblastoma using adult F344 rats and N-methyl-N-nitrosourea.  
Acta Pathol Jpn. 1993 Sep; 43(9): 464-74.
- Ogasawara H, Mitsumori K, Onodera H, Imazawa T, Shibutani M, Takahashi M, Ward JM, Maekawa A.  
Spontaneous histiocytic sarcoma with possible origin from the bone marrow and lymph node in Donryu and F-344 rats.  
Toxicol Pathol. 1993; 21(1): 63-70.
- Ohata H, Kawanishi T, Kawanishi M, Uneyama C, Takahashi M, Momose K.  
Spontaneous oscillations of cytoplasmic free calcium ion concentration in cultured smooth muscle cells from guinea pig ileum.  
Jpn J Pharmacol. 1993 Sep; 63(1): 83-91.
- Onodera H, Matsushima Y, Mitumori K, Maekawa A.  
Supplementary study of phenylbutazone promoting effects using wide organ spectrum two-stage carcinogenesis models in rats.  
J Toxicol Pathol. 1993; 6(2): 175-80.
- Kitaura K, Mitsumori K, Imazawa T, Furukawa F, Onodera H, Yasuhara K, Takahashi M.  
Cell proliferation in spontaneous proliferative lesions of the rat adrenal medulla: PCNA and AgNORs analyses:  
J Toxicol Pathol. 1993; 6(2): 195-204.
- Tsuchiya T, Arai T, Ohhashi J, Imai K, Kojima H, Miyamoto S, Hata H, Ikarashi Y, Toyoda K, Takahashi M, Nakamura A.  
Rabbit eye irritation caused by wearing toxic contact lenses and their cytotoxicities: in vivo/in vitro correlation study using standard reference materials.  
J Biomed Mater Res. 1993 Jul; 27(7): 885-93.
- Tsuchiya T, Ikarashi Y, Hata H, Toyoda K, Takahashi M, Uchima T, Tanaka N, Sasaki T, Nakamura A.  
Comparative studies of the toxicity of standard reference materials in various

cytotoxicity tests and in vivo implantation tests.

J Appl Biomater. 1993 Summer; 4(2): 153-6.

- Takahashi M, Matsui H.  
Mechanisms of Testicular Toxicity.  
J Toxicol Pathol. 1993; 6(2): 161-74.
- Nagaoka T, Takeuchi M, Onodera H, Mitsumori K, Lu J, Maekawa A.  
Experimental induction of uterine adenocarcinoma in rats by estrogen and N-methyl-N-nitrosourea.  
In Vivo. 1993 Nov-Dec; 7(6A): 525-30.
- 林裕造, 児玉幸夫, 不二哲  
トランスジェニックマウスの発がん性試験における有用性  
実験動物, Experimentl Animals, Vol.42, No.3 (1993)
- 林裕造  
臨床試験からみた前臨床試験の問題点.-創薬研究における種間外挿の科学的基盤-  
第13回 日本臨床薬理学会 1992,12月4日, 日本都市センター特別講演  
臨床薬理 Jpn J Clin Pharmacol Ther 24(1) (1993)
- 林裕造, 山崎幹夫, 渡辺烈, 井村伸正, 松木容彦  
毒・薬・トキシコロジー  
ファルマシア 別刷. 日本薬理学会, Vol.29, No.1 (1993)
- Chung FL, Chen HJ, Guttenplan JB, Nishikawa A, Hard GC.  
2,3-epoxy-4-hydroxynonanal as a potential tumor-initiating agent of lipid peroxidation.  
Carcinogenesis. 1993 Oct; 14(10): 2073-7.
- 佐藤元信, 古川文夫, 西川秋佳, 今沢孝善, 吉村博之, 鈴木順子, 中村啓, 高橋道人  
WBN/Kob ラットの精巣病変および睪病変に対する cyclophosphamide の影響  
衛生試験所報告 1993; 111: 34-8.
- 松井元, 豊田和弘, 篠田和俊, 岡宮英明, 古川文夫, 川西徹, 高橋道人  
アドリアマイシンによる精巣毒性の定量的な病理組織学的評価.  
衛生試験所報告 1993; 111: 39-46.

- 三森国敏  
代謝物動態を考慮に入れた食品中残留基準設定の科学的根拠。  
衛生試験所報告 1993; 111: 148-9.
- Nishimaki-Mogami T, Takahashi A, Toyoda K, Hayashi Y.  
Induction of peroxisomal beta-oxidation by a microbial catabolite of cholic acid in rat liver and cultured rat hepatocytes.  
Biochem J. 1993 Oct 1; 295: 217-20.
- Mitsui M, Furukawa F, Sato M, Enami T, Imazawa T, Nishikawa A, Takahashi M.  
Carcinogenicity study of 1,1-bis(tert-butylperoxy)-3,3,5-trimethylcyclohexane in B6C3F1 mice.  
Food Chem Toxicol. 1993 Dec; 31(12): 929-33.
- Uneyama C, Uneyama H, Akaike N.  
Cytoplasmic Ca<sup>2+</sup> oscillation in rat megakaryocytes evoked by a novel type of purinoceptor.  
J Physiol. 1993 Oct; 470: 731-49.
- Uneyama C, Uneyama H, Takahashi M, Akaike N.  
Cytoplasmic pH regulates ATP-induced Ca(2+)-dependent K(+)-current oscillation in rat megakaryocytes.  
Biochem J. 1993 Oct 1; 295: 317-20.
- Uneyama H, Uneyama C, Akaike N.  
Intracellular mechanisms of cytoplasmic Ca<sup>2+</sup> oscillation in rat megakaryocyte.  
J Biol Chem, 1993; 268(1): 168-74.
- 【1994年】
- Takahashi M.  
Scientific approach to duration of human use and study requirements.  
Proceedings of the second International Conference on Harmonisation,  
Orlando 1993, 1994; 284-5.
- Mitsumori K, Furukawa F, Sato M, Yoshimura H, Imazawa T, Nishikawa A, Takahashi M.  
Promoting effects of ethinyl estradiol on development of renal proliferative lesions induced by N-nitrosobis (2-oxopropyl)amine in female Syrian golden hamsters.

- J Cancer Res Clin Oncol. 1994; 120(3): 131-6.
- Uneyama H, Uneyama C, Ebihara S, Akaike N.  
Suramin and reactive blue 2 are antagonists for a newly identified purinoceptor on rat megakaryocyte.  
Br J Pharmacol. 1994 Jan; 111(1): 245-9.
  - Furukawa F, Nishikawa A, Imazawa T, Yoshimura H, Sato M, Aze Y, Takahashi M.  
Blocking effects of synthetic trypsin inhibitor (camostat) on pancreatic carcinogenesis in hamsters initiated with N-nitrosobis(2-oxopropyl)amine.  
Pancreas. 1994 Jan; 9(1): 78-82.
  - Shibutani M, Mitsumori K, Okeda R, Imazawa T, Maekawa A, Hatanaka H, Takahashi M, Inoue K, Hayashi Y.  
Evidence for an origin of ethyl-nitrosourea-induced rat central nervous system tumors from pluripotent germinal neuroepithelium.  
Acta Neuropathol. 1994; 87(3): 293-301.
  - 柳瀬敏幸, 土井邦雄, 榎本眞, 高橋道人, 小野斉, 星野恵子, 木村武二, 岩田誠  
「生命の科学」 特集-毒性病理学-未来への指針  
中山書店. Vol.3, No.4 通巻 19 号 (1994)
  - Imazawa T, Furukawa F, Shibutani M, Mitsumori K, Sato M, Hayashi Y, Takahashi M.  
Correlation between nucleolar organizer regions and cell proliferation in pancreatic acinar cell proliferative lesions in rats.  
Pancreas. 1994 Mar; 9(2): 219-24.
  - 古川文夫, 古田京子, 西川秋佳, 高橋道人  
自動免疫組織染色装置(IHS-20)による至適反応条件と希釈倍率の検討  
臨床検査 1994; 38(4): 489-92.
  - Nath RG, Chen HJ, Nishikawa A, Young-Sciame R, Chung FL.  
A <sup>32</sup>P-postlabeling method for simultaneous detection and quantification of exocyclic etheno and propano adducts in DNA.  
Carcinogenesis. 1994 May; 15(5): 979-84.
  - Kawanishi T, Kawanishi M, Ohata H, Toyoda K, Takahashi M, Momose K, Hayashi Y.  
The relationship between spontaneous calcium oscillations and cell proliferation in

cultured smooth muscle cells.

Jpn J Pharmacol. 1994 May; 65(1): 59-62.

- Kawanishi T, Asou H, Kato T, Uneyama C, Toyoda K, Ohata H, Momose K, Takahashi M.  
Ratioimaging of calcium waves in cultured hepatocytes using rapid scanning confocal microscope and Indo-1.  
Bioimages. 1994; 2(1): 7-14.
- 古川文夫, 鈴木順子, 池崎信一郎, 古田京子, 西川秋佳  
樹脂包標本における免疫染色の検討  
実験病理組織技術研究会誌 1994; 3(1): 1-5.
- Sato M, Furukawa F, Nishikawa A, Mitsumori K, Imazawa T, Takahashi M.  
Analysis of proliferative activity in renal lesions induced by N-nitrosobis(2-oxopropyl)amine (BOP) in male Syrian golden hamsters.  
Cancer Lett. 1994 Apr 29; 79(1): 91-9.
- Shimo T, Mitsumori K, Onodera H, Yasuhara K, Kitaura K, Takahashi M, Kanno J, Hayashi Y.  
Synergistic effects of phenobarbital and thiourea on proliferative lesions in the rat liver.  
Cancer Lett. 1994 Jun 15; 81(1): 45-52.
- Takahashi M, Nishikawa A, Furukawa F, Enami T, Hasegawa T, Hayashi Y.  
Dose-dependent promoting effects of sodium chloride (NaCl) on rat glandular stomach carcinogenesis initiated with N-methyl-N'-nitro-N-nitrosoguanidine.  
Carcinogenesis. 1994 Jul; 15(7): 1429-32.
- Furukawa F, Nishikawa A, Yoshimura H, Takahashi M, Nakamura K, Kamano T.  
Analysis of cell proliferative activity during pancreatic ductal carcinogenesis induced by intraductal administration of N-ethyl-N'-nitro-N-nitrosoguanidine in dogs.  
J Toxicol Pathol. 1994; 7: 223-8.
- Mitsumori K, Elwell MR.  
Tumours of the male accessory sex glands.  
IARC Sci Publ. 1994; (111): 431-49.
- Mitsumori K, Kodama Y, Uchida O, Takada K, Saito M, Naito K, Tanaka S, Kurokawa Y, Usami M, Kawashima K, Yasuhara K, Toyoda K, Onodera H, Furukawa F, Takahashi M, Hayashi Y.

Confirmation study, using nitrobenzene, of the combined repeat dose and reproductive/developmental toxicity test protocol proposed by the Organization for Economic Cooperation and Development (OECD).

J Toxicol Sci. 1994 Aug; 19(3): 141-9.

- Uneyama C, Uneyama H, Takahashi M, Akaike N.  
Biological actions of purines on rat megakaryocytes: potentiation by adenine of the purinoceptor-operated cytoplasmic Ca<sup>2+</sup> oscillation.  
Br J Pharmacol. 1994 Jun; 112(2): 349-51.
- 古川文夫, 高橋道人  
ハムスター-BOP 誘発膵癌における Nucleolar organizer regions による細胞増殖活性の検討  
日本膵臓学会 膵臓, 1994; 9(4): 292-7.
- Uneyama C, Uneyama H, Takahashi M, Akaike N.  
FCCP modulation of Ca<sup>2+</sup> oscillation in rat megakaryocytes.  
Eur J Pharmacol. 1994 Aug 16; 268(3): 455-8.
- Nishikawa A, Furukawa F, Imazawa T, Yoshimura H, Ikezaki S, Hayashi Y, Takahashi M.  
Effects of cigarette smoke on N-nitrosobis(2-oxopropyl)amine-induced pancreatic and respiratory tumorigenesis in hamsters.  
Jpn J Cancer Res. 1994 Oct; 85(10): 1000-4.
- Toyoda K, Nishikawa A, Furukawa F, Kawanishi T, Hayashi Y, Takahashi M.  
Cell proliferation induced by laxatives and related compounds in the rat intestine.  
Cancer Lett. 1994 Aug 15; 83(1-2): 43-9.
- Sawada J, Kikuchi Y, Shibutani M, Mitsumori K, Inoue K, Kasahara T.  
Induction of metallothionein in astrocytes by cytokines and heavy metals.  
Biol Signals. 1994 May-Jun; 3(3): 157-68.
- Nagaoka T, Takeuchi M, Onodera H, Matsushima Y, Ando-Lu J, Maekawa A.  
Sequential observation of spontaneous endometrial adenocarcinoma development in Donryu rats.  
Toxicol Pathol. 1994 May-Jun; 22(3): 261-9.
- Shimizu S, Ishii M, Yamamoto T, Kawanishi T, Momose K, Kuroiwa Y.

Bradykinin induces generation of reactive oxygen species in bovine aortic endothelial cells.

Res Commun Chem Pathol Pharmacol. 1994 Jun; 84(3): 301-14.

- Shimo T, Mitsumori K, Onodera H, Yasuhara K, Takahashi M, Takahashi M, Ueno Y, Hayashi Y.  
Time course observation of thyroid proliferative lesions and serum TSH levels in rats treated with thiourea after DHPN initiation.  
Cancer Lett. 1994 Oct 14; 85(2): 141-9.
- Nishikawa A, Kinae N, Furukawa F, Mitsui M, Enami T, Hasegawa T, Takahashi M.  
Enhancing effects of 3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone (MX) on cell proliferation and lipid peroxidation in the rat gastric mucosa.  
Cancer Lett. 1994 Oct 14; 85(2): 151-7.
- Onodera H, Mitsumori K, Takahashi M, Shimo T, Yasuhara K, Kitaura K, Takahashi M, Hayashi Y.  
Thyroid proliferative lesions induced by anti-thyroid drugs in rats are not always accompanied by sustained increases in serum TSH.  
J Toxicol Sci. 1994 Nov; 19(4): 227-34.
- 川西徹  
特集: 生体情報と光技術 細胞内カルシウムの動的観測.  
O plus E, 1994; 180: 83-91.
- Furukawa F, Nishikawa A, Yoshimura H, Mitsui M, Imazawa T, Ikezaki S, Takahashi M.  
Effects of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK) on N-nitrosobis(2-oxopropyl)amine (BOP)-initiated carcinogenesis in hamsters.  
Cancer Lett. 1994 Oct 28; 86(1): 75-82.
- Mitsumori K, Yasuhara K, Yoshimura H, Uneyama C, Imazawa T, Onodera H, Hayashi Y.  
Experimental induction of pulmonary fibrosis in Syrian golden hamsters by N-methyl-N-nitrosourethane.  
Exp Toxicol Pathol. 1994 Oct; 46(4-5): 287-95.
- 池崎信一郎, 西川秋佳, 古川文夫, 今沢孝善, 榎並倫宣, 三井雅之, 高橋道人  
F344 ラットを用いた L-ヒスチジン塩酸塩の 13 週間亜慢生毒性試験

- 衛生試験所報告 1994; 112: 57-63.
- 豊田和弘, 川西徹, 畝山智香子, 高橋道人  
F344 ラットにおける流動パラフィンの亜慢性毒性試験  
衛生試験所報告 1994; 112: 64-70.
  - 古川文夫, 西川秋佳, 三井雅之, 佐藤元信, 鈴木順子, 今沢孝善, 高橋道人  
Bisphenol A の B6CF1 マウスにおける 13 週間亜慢性毒性試験  
衛生試験所報告 1994; 112: 89-96.
  - 三森国敏, 安原加壽雄, 小野寺博志, 高橋道人  
化学物質暴露動物での一般毒性・病理組織学的検査. 免疫毒性試験における免疫病理学的検査手法の改善  
衛生試験所報告 1994; 112: 304-9.
  - 小野寺博志, 三森国敏, 安原加壽雄, 下武雄, 黒川典子, 高橋道人  
パラオキシ安息香酸イソプロピルの F344 ラットにおける 13 週間亜慢性毒性試験  
衛生試験所報告 1994; 112: 82-8.
  - 下武雄, 小野寺博志, 松島裕子, 外館あさひ, 三森国敏, 前川明彦, 高橋道人  
Nitrobenzene の F344 ラットにおける 28 日間反復投与毒性試験  
衛生試験所報告 1994; 112: 71-81.
  - 編集 高橋 道人  
精巣毒性評価のための精細管アトラス —ラット、マウス、イヌ—  
ソフトサイエンス社 (1994)
  - 編著 伊東 信行  
最新 毒性病理学  
中山書店 (1994)
  - Onodera H, Kitaura K, Mitsumori K, Yoshida J, Yasuhara K, Shimo T, Takahashi M, Hayashi Y.  
Study on the carcinogenicity of tannic acid in F344 rats.  
Food Chem Toxicol. 1994 Dec; 32(12): 1101-6.

【1995 年】

- Nishikawa A, Furukawa F, Imazawa T, Ikezaki S, Hasegawa T, Takahashi M.  
Effects of caffeine on glandular stomach carcinogenesis induced in rats by N-methyl-N'-nitro-N-nitrosoguanidine and sodium chloride.  
Food Chem Toxicol. 1995 Jan; 33(1): 21-6.
- Mori Y, Iimura K, Furukawa F, Nishikawa A, Takahashi M, Konishi Y.  
Effect of cigarette smoke on the mutagenic activation of various carcinogens in hamster.  
Mutat Res. 1995 Jan; 346(1): 1-8.
- Enami T, Nishikawa A, Furukawa F, Mitsui M, Yoshimura H, Takahashi M, Fukushima S.  
Protective effects of butylated hydroxyanisole against bleomycin-induced diffuse alveolar damage in hamsters.  
J Toxicol Pathol. 1995; 8: 7-14.
- Hayashi S, Mitsumori K, Imaida K, Imazawa T, Yasuhara K, Uneyama C, Hayashi Y.  
Establishment of an animal model for pulmonary fibrosis in mice using monocrotaline.  
Toxicol Pathol. 1995 Jan-Feb; 23(1): 63-71.
- Uneyama C, Imazawa T, Uneyama H, Akaike N, Kawanishi T, Takahashi M.  
Not Ca<sup>2+</sup> but cAMP is the second messenger for morphological changes in rat megakaryocyte.  
Biochem Biophys Res Commun. 1995 Jun 6; 211(1): 282-8.
- Mitsumori K, Onodera H, Takahashi M, Shimo T, Yasuhara K, Kitaura K, Takahashi M, Hayashi Y.  
Effect of thyroid stimulating hormone on the development and progression of rat thyroid follicular cell tumors.  
Cancer Lett. 1995 Jun 8; 92(2): 193-202.
- Takayama S, Akaike M, Kawashima K, Takahashi M, Kurokawa Y.  
A collaborative study in Japan on optimal treatment period and parameters for detection of male fertility disorders induced by drugs in rats.  
Journal of the American College of Toxicology, 1995; 14(4): 266-92.
- Kawanishi T, Uneyama C, Toyoda K, Ohno Y, Takanaka A, Takahashi M.  
Suppression of Na<sup>+</sup> influx in ATP-depleted hepatocytes.  
Life Sci. 1995; 57(4): 355-61.

- Imazawa T, Nishikawa A, Tada M, Takahashi M, Hayashi Y.  
Nucleolar segregation as an early marker for DNA damage; an experimental study in rats treated with 4-hydroxyaminoquinoline 1-oxide.  
Virchows Arch. 1995; 426(3): 295-300.
- 大野泰雄, 井上和秀, 高橋道人, 川西徹  
15 細胞内および細胞間情報ネットワークへの影響面からみた環境汚染物質の有害反応の解析に関する研究  
総合研究プロジェクト別環境保全研究成果集, 平成6年度環境汚染物質の影響評価に関する総合研究, 環境庁企画調整局環境研究技術課編, 15.1-15.23 (1995)
- 高橋道人  
精巣毒性  
静岡実験動物研究会会報, 1995; 22 (1): 12-20.
- 加地祥文, 光岡俊成, 三森国敏  
動物用医薬品等の残留基準値の設定について  
食品衛生研究, 1995; 45 (7): 39-52.
- 高橋道人  
げっ歯類腫瘍の国際分類. Part I ラット. 2 軟部組織および筋・骨格系  
ソフトサイエンス社, 東京 (1995)
- 高橋道人  
医薬品開発における精巣毒性. ICH を中心に  
薬の知識, 1995; 46 (8): 213-6.
- Nishikawa A, Furukawa F, Imazawa T, Ikezaki S, Otoshi T, Fukushima S, Takahashi M.  
Cell proliferation in lung fibrosis-associated hyperplastic lesions.  
Hum Exp Toxicol. 1995 Sep; 14(9): 701-5.
- Matsui H, Mitsumori K, Yasuhara K, Onodera H, Shimo T, Takahashi M.  
Morphological evaluation of cyclophosphamide testicular toxicity in rats using quantitative morphometry of spermatogenic cycle stages.  
J Toxicol Sci. 1995 Sep; 20(4): 407-14.
- Yasuhara K, Mitsumori K, Yoshimura H, Imazawa T, Hayashi S, Onodera H, Takahashi

M, Hayashi Y.

Relationship between the development of pulmonary fibrosis and lung tumors in Syrian golden hamsters induced by N-methyl-N-nitrosourethane.

Toxicol Pathol. 1995 Sep-Oct; 23(5): 551-9.

- Shimo T, Mitsumori K, Onodera H, Takahashi M, Ueno Y, Katayama J, Saito A, Takahashi M.  
Effect of rat thyroid proliferative lesion development by intermittent treatment with sulfadimethoxine.  
Cancer Lett. 1995 Sep 25; 96(2): 209-18.
- Ogasawara H, Imaida K, Ishiwata H, Toyoda K, Kawanishi T, Uneyama C, Hayashi S, Takahashi M, Hayashi Y.  
Urinary bladder carcinogenesis induced by melamine in F344 male rats: correlation between carcinogenicity and urolith formation.  
Carcinogenesis. 1995 Nov; 16(11): 2773-7.
- 池崎信一郎, 古川文夫, 黒川典子, 塚田道子, 三浦絵美, 西川秋佳  
ApopTag in situ アポトーシス検出用キットの検討  
実験病理組織技術研究会誌 1995; 4 (1): 23-6.
- Nishikawa A, Furukawa F, Mitsui M, Enami T, Imazawa T, Ikezaki S, Takahashi M.  
Dose-dependent promotion effects of potassium chloride on glandular stomach carcinogenesis in rats after initiation with N-methyl-N'-nitro-N-nitrosoguanidine and the synergistic influence with sodium chloride.  
Cancer Res. 1995 Nov 15; 55(22): 5238-41.
- 豊田和弘, 林修次, 畝山智香子, 川西徹, 高田幸一, 高橋道人  
 $\beta$ -cyclodextrin13 週間経口投与 F344 ラットにおける肝病変  
衛生試験所報告 1995; 113: 36-43.
- 池崎信一郎, 西川秋佳, 古川文夫, 今沢孝喜, 三井雅之, 榎並倫宣, 高橋道人  
ジョサマイシンの F344 ラットにおける 13 週間亜慢性毒性試験  
衛生試験所報告 1995; 113: 44-50.
- 安原加壽雄, 三森国敏, 会田喜嵩, 小野寺博志, 高橋道人  
Bromodichloromethane 投与ラットに誘発された cholangiofibrosis の細胞増殖活性.

衛生試験所報告 1995; 113: 51-7.

- 竹川潔, 安原加壽雄, 三森国敏, 小野寺博志, 下武男, 高橋道人  
乳酸鉄 26 週間混餌投与ラットにおける毒性  
衛生試験所報告 1995; 113: 58-63.
  - Kawanishi T, Kato T, Asoh H, Uneyama C, Toyoda K, Momose K, Takahashi M, Hayashi Y.  
Hepatocyte growth factor-induced calcium waves in hepatocytes as revealed with rapid scanning confocal microscopy.  
Cell Calcium. 1995 Dec; 18(6): 495-504.
  - Takayama S, Akaike M, Kawashima K, Takahashi M, Kurokawa Y.  
Studies on the optimal treatment period and parameters for detection of male fertility disorder in rats--introductory summary.  
J Toxicol Sci. 1995 Aug; 20(3): 173-82.
  - Shimo T, Saito A, Aoki Y, Mitsumori K, Onodera H, Takahashi M, Takahashi M Ueno Y.  
Enhancement of rat thyroid proliferative lesion development by step-wise increasing dose treatment with sulfadimethoxine.  
J Toxicol Pathol. 1995; 8: 417-26.
  - Kim HC, Lee YS, Furukawa F, Nishikawa A, Takahashi M.  
Enhancement of GST-P positive liver cell foci development by a medium-term carcinogenicity bioassay using repeated administration of D-galactosamine.  
Cancer Lett. 1995 Nov 27; 98(1): 71-6.
  - Uneyama C, Uneyama H, Takahashi M, Akaike N.  
Pharmacological studies on mechanisms involved in Ca<sup>2+</sup> oscillations in rat megakaryocytes.  
Eur J Pharmacol. 1995 Nov 30; 291(3): 381-6.
- 【1996 年】
- 仲正, 藤森観之助, 大野泰雄, 高橋道人, 川西徹  
細胞内および細胞間情報ネットワークへの影響面からみた環境汚染物質の有害反応の解析に関する研究 (1992-1996)
  - Nagaoka T, Onodera H, Hayashi Y, Maekawa A.

Influence of high-fat diets on the occurrence of spontaneous uterine endometrial adenocarcinomas in rats.

Teratogenesis, Carcinogenesis, and Mutagenesis 1996; 15: 167-77.

- Nishikawa A, Furukawa F, Ikezaki S, Tanakamaru ZY, Chung FL, Takahashi M, Hayashi Y.  
Chemopreventive effects of 3-phenylpropyl isothiocyanate on hamster lung tumorigenesis initiated with N-nitrosobis(2-oxopropyl)amine.  
Jpn J Cancer Res. 1996 Feb; 87(2): 122-6.
- Ikezaki S, Nishikawa A, Furukawa F, Enami T, Tanakamaru Z, Kim H-C, Takahashi M, Fukushima S.  
Improvement of hamster-lung fibrosis model by repeated intratracheal administration of bleomycin.  
J Toxicol Pathol. 1996; 9: 23-8.
- Matsui H, Toyoda K, Kawanishi T, Mitsumori K, Takahashi M, Fukuhara K, Miyata N.  
Direct toxic effects of ethylene-1,2-dimethanesulfonate (EDS) on the rat epididymis.  
J Toxicol Pathol. 1996; 9: 65-72.
- Fujii H, Makinose T, Ogasawara H, Murata A, Takagi H, Furukawa F, Onodera H, Hoshiya T.  
Development of a toxicologic pathology system using personal computer network.  
J Toxicol Pathol. 1996; 9: 13-21.
- Ohata H, Kawanishi T, Hisamitsu T, Takahashi M, Momose K.  
Functional coupling of the Na<sup>+</sup>/Ca<sup>2+</sup> exchanger with Ca<sup>2+</sup> release from intracellular stores in cultured smooth muscle cells of guinea pig ileum.  
Life Sci. 1996; 58(14): 1179-87.
- Ikezaki S, Nishikawa A, Enami T, Furukawa F, Imazawa T, Uneyama C, Fukushima S, Takahashi M.  
Inhibitory effects of the dietary antioxidants butylated hydroxyanisole and butylated hydroxytoluene on bronchioloalveolar cell proliferation during the bleomycin-induced pulmonary fibrosing process in hamsters.  
Food Chem Toxicol. 1996 Apr; 34(4): 327-35.
- Mitsumori K, Onodera H, Takahashi M, Shimo T, Yasuhara K, Takegawa K, Takahashi M, Hayashi Y.

Promoting effect of large amounts of vitamin A on cell proliferation of thyroid proliferative lesions induced by simultaneous treatment with thiourea.

Cancer Lett. 1996 May 15; 103(1): 19-31.

- 豊田和弘  
第6章 短期筋肉内埋植試験  
医療用具及び医用材料の基礎的な生物学的試験のガイドライン 1995 解説  
(厚生省薬務局医療機器開発課 監修), 73-85, 薬事日報社 (1996)
- Kim HC, Cha SW, Ha CS, Roh JK, Lee YS, Furukawa F, Nishikawa A, Takahashi M.  
Reappraisal of eight representative carcinogenic and non-carcinogenic compounds in a new medium-term rat liver bioassay using D-galactosamine.  
Cancer Lett. 1996 Jun 24; 104(1): 85-90.
- Ikezaki S, Nishikawa A, Furukawa F, Tanakamaru Z, Kim HC, Mori H, Takahashi M.  
Chemopreventive effects of 24R,25-dihydroxyvitamin D<sub>3</sub>, a vitamin D<sub>3</sub> derivative, on glandular stomach carcinogenesis induced in rats by N-methyl-N'-nitro-N-nitrosoguanidine and sodium chloride.  
Cancer Res. 1996 Jun 15; 56(12): 2767-70.
- 三森国敏, 安原加壽雄  
化学物質による精巢毒性とアポトーシス  
日本獣医病理学会会報特集号, 1996: 25-27.
- Nishikawa A, Furukawa F, Uneyama C, Ikezaki S, Tanakamaru Z, Chung FL, Takahashi M, Hayashi Y.  
Chemopreventive effects of phenethyl isothiocyanate on lung and pancreatic tumorigenesis in N-nitrosobis(2-oxopropyl)amine-treated hamsters.  
Carcinogenesis. 1996 Jun; 17(6): 1381-4.
- Takahashi M.  
The use of rodents for carcinogenicity testing - Regulatory viewpoint. Proceedings of In; The Third International Conference on Harmonisation, Yokohama 1995,  
Eds. R. F. D. Arcy and D. W. G. Harron, 1996: 277-9.
- Takahashi M, Okamiya H.  
Tumours of the oral cavity, buccal pouch, oesophagus, forestomach and salivary glands.  
IARC Sci Publ. 1996; (126): 59-77.

- Takahashi M, Okamiya H.  
Tumours of the glandular stomach.  
IARC Sci Publ. 1996; (126): 127-35.
- Takahashi M, Okamiya H.  
Tumours of the intestine.  
IARC Sci Publ. 1996; (126): 137-47.
- Tanaka H, Kawanishi T, Matsuda T, Takahashi M, Shigenobu K.  
Intracellular free Ca<sup>2+</sup> movements in cultured cardiac myocytes as shown by rapid scanning confocal microscopy.  
J Cardiovasc Pharmacol. 1996 Jun; 27(6): 761-9.
- Umemura T, Hasegawa R, Sai-Kato K, Nishikawa A, Furukawa F, Toyokuni S, Uchida K, Inoue T, Kurokawa Y.  
Prevention by 2-mercaptoethane sulfonate and N-acetylcysteine of renal oxidative damage in rats treated with ferric nitrilotriacetate.  
Jpn J Cancer Res. 1996 Sep; 87(9): 882-6.
- Matsui H, Toyoda K, Kawanishi T, Mitsumori K, Takahashi M, Fukuhara K Miyata N.  
Advantages of simplified quantitative morphometry using stage grouping analysis of spermatogenic cycle for evaluation of the testicular toxicity of ethylene-1,2-dimethanesulfonate in rats.  
J Toxicol Pathol. 1996; 9: 285-92.
- Furukawa F, Nishikawa A, Imazawa T, Lee I.-S., Kasahara K, Takahashi M.  
Inhibitory effects of nicotinamide on BOP-initiated pancreatic carcinogenesis in hamsters.  
In: Recent Advances in Gastroenterological Carcinogenesis I. Eds. Tahara E, Sugimachi K, Oohara T, Monduzzi Editore, Bologna, 1996: p. 585-8.
- Nishikawa A, Furukawa F, Lee I.-S., Uneyama C, Imazawa T, Tanakamaru Z, Kasahara K, Takahashi M.  
Chemopreventive effects of oltipraz on glandular stomach carcinogenesis in rats treated with N-methyl-N'-nitro-N-nitrosoguanidine.  
In: Recent Advances in Gastroenterological Carcinogenesis I. Eds. E. Tahara, K. Sugimachi and T. Oohara, Monduzzi Editore, Bologna, 1996: p. 1171-4.
- Lee I.-S., Nishikawa A, Furukawa F, Uneyama C, Kim H.-C., Imazawa T, Kasahara K,

Takahashi M.

Effects of phenethyl isothiocyanate on xenobiotic metabolizing enzymes and cell kinetics in hamsters treated with N-nitrosobis(2-oxopropyl)amine in hamsters.

In: Recent Advances in Gastroenterological Carcinogenesis I. Eds. Tahara E, Sugimachi K, Oohara T, Monduzzi Editore, Bologna, 1996: p. 1187-91.

- Yasuhara K, Mitsumori K, Imazawa T, Yoshimura H, Onodera H, Takegawa K, Takahashi M, Shirai W, Hayashi Y.  
Ultrastructure and cell proliferative activities of karyomegalic alveolar epithelial cells in early pulmonary inflammatory lesions of Syrian golden hamsters induced by N-methyl-N-nitrosourethane.  
J Vet Med Sci. 1996 Sep; 58(9): 825-31.
- Ikezaki S, Nishikawa A, Furukawa F, Enami T, Mitsui M, Tanakamaru Z, Kim HC, Lee IS, Imazawa T, Takahashi M.  
Long-term toxicity/carcinogenicity study of L-histidine monohydrochloride in F344 rats.  
Food Chem Toxicol. 1996 Aug; 34(8): 687-91.
- 小野寺博志, 三森国敏, 畝山智香子, 安原加壽雄, 竹川潔, 高橋道人  
Benzimidazole 系化合物反復投与ラットにおける肝腫瘍プロモーション作用の強さ  
衛生試験所報告 1996; 114: 21-6.
- 今沢孝喜, 西川秋佳, 古川文夫, 田中丸善洋, 李仁善, 金享津, 高橋道人  
クチナシ青色素の F344 ラットにおける 13 週間亜慢性毒性試験  
衛生試験所報告 1996; 114: 27-32.
- 竹川潔, 三森国敏, 小野寺博志, 下武男, 高橋正一, 安原加壽雄, 高橋道人  
ラット肝および肺の腫瘍発生に対する抗甲状腺物質の修飾作用  
衛生試験所報告 1996; 114: 33-7.
- 古川文夫ビスフェノール A の安全性  
日本医事新報 1996; 3769: 117.
- 古川文夫  
食べ合わせによる発がん物質

治療 1996; 78: 2861-3.

- Takahashi M.  
Carcinogenicity study of white mineral oils.  
The Toxicology Forum (1996 Annual European Meeting) 573-583, 1996(March25-28)
- Mitsumori K, Takegawa K, Shimo T, Onodera H, Yasuhara K, Takahashi M.  
Morphometric and immunohistochemical studies on atrophic changes in lympho-hematopoietic organs of rats treated with piperonyl butoxide or subjected to dietary restriction.  
Arch Toxicol. 1996; 70(12): 809-14.
- Yamamoto S, Mitsumori K, Kodama Y, Matsunuma N, Manabe S, Okamiya H, Suzuki H, Fukuda T, Sakamaki Y, Sunaga M, Nomura G, Hioki K, Wakana S, Nomura T, Hayashi Y.  
Rapid induction of more malignant tumors by various genotoxic carcinogens in transgenic mice harboring a human prototype c-Ha-ras gene than in control non-transgenic mice.  
Carcinogenesis. 1996 Nov; 17(11): 2455-61.
- Matsuda H, Takahashi M.  
Introductory Remarks  
J Toxicol Sci. 1996; 21: 473.
- Mitsumori K, Nishikawa A.  
Assessment of carcinogenicity using transgenic animals.  
J Toxicol Sci. 1996 Dec; 21(5): 479-82.
- Takahashi M, Maita K.  
Problems in interpretation of carcinogenicity studies.  
J Toxicol Sci. 1996; 21: 493.
- Okuno Y, Kunimatsu T, Tanahashi K, Watanabe T, Takahashi M, Takegawa K, Onodera H, Mitsumori K.  
Effect of simultaneous treatment of large amounts of vitamin A and thiourea on thyroidal iodine uptake and organification in rats.  
J Toxicol Pathol. 1996; 9: 385-90.
- Yasuhara K, Mitsumori K, Yoshimura H, Imazawa T, Onodera H, Takegawa K, Takahashi M, Shirai W, Fujiwara K, Hayashi Y.

Relationship between pulmonary fibrosis and lung proliferative lesions induced by different doses of N-methyl-N-nitrosourethane in Syrian golden hamsters.

J Toxicol Pathol. 1996; 9: 315-22.

- 三森国敏  
神経・免疫毒性試験ガイドラインの国際的動向と精巣毒性病理評価上の問題点  
静岡実験動物研究会会報 1996; 23: 7-16.
- Suzuki T, Itoh T, Hayashi M, Nishikawa Y, Ikezaki S, Furukawa F, Takahashi M, Sofuni T.  
Organ variation in the mutagenicity of dimethylnitrosamine in Big Blue mice.  
Environ Mol Mutagen. 1996; 28(4): 348-53.  
**【1997年】**
- Kim HC, Cha SW, Song SW, Ha CS, Han SS, Roh JK, Lee YS, Furukawa F, Nishikawa A, Takahashi M.  
Enhancing effects of captafol on the development of GST-P-positive liver cell foci in a medium-term bioassay, and protection by L-cysteine of the enhancement in rats.  
Cancer Lett. 1997 Jan 1; 111(1-2): 15-20.
- Takahashi M, Nishikawa A.  
Adenoma, glandular stomach, rat  
In: ILSI Monograph on Pathology of Laboratory Animals, Digestive System, 2nd Edition, Eds. T.C. Jones, J.A. Popp and U. Mohr, Springer, Berlin, p. 358-363 (1997)
- Takahashi M, Nishikawa A.  
Leiomyoma and leiomyosarcoma, glandular stomach, rat  
In: ILSI Monograph on Pathology of Laboratory Animals, Digestive System, 2nd Edition, Eds. T.C. Jones, J.A. Popp and U. Mohr, Springer, Berlin, p. 372-376 (1997)
- Uneyama C, Uneyama H, Narisawa K, Takahashi M, Akaike N.  
Kinetic characteristics of thrombin receptor-mediated responses in rat megakaryocytes.  
Eur J Pharmacol. 1997 Jan 29; 319(2-3): 299-305.
- Shimo T, Mitsumori K, Takahashi M, Katayama J, Saito A, Yoshida H, Aoki Y, Onodera H, Takahashi M.  
Comparison of ultrastructural changes in thyrotrophs of the rat pituitary between intermittent and continuous treatments with sulfadimethoxine.  
Toxicol Pathol. 1997 Mar-Apr; 25(2): 177-85.

- Yoshida T, Mitsumori K, Harada T, Maita K.  
Morphological and ultrastructural study of the histogenesis of meningeal granular cell tumors in rats.  
Toxicol Pathol. 1997 Mar-Apr; 25(2): 211-6.
- Kim H-C, Nishikawa A, Furukawa F, Lee I-S, Takahashi M, Yoshida T, Harada T, Maita K.  
Argyophilic nucleolar organizer regions in hepatocytes of focal lesions and background parenchyma in rats treated with peroxisome proliferators.  
J Toxicol Pathol. 1997; 10: 19-23.
- 高橋道人  
化学物質の安全性確保とリスクアセスメント  
ソーダと塩素 1997; 48: 137-49.
- Furukawa F, Nishikawa A, Enami T, Mitsui M, Imazawa T, Tanakamaru Z, Kim HC, Lee IS, Kasahara K, Takahashi M.  
Promotional effects of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanol (NNAL) on N-nitrosobis(2-oxopropyl)amine (BOP)-initiated carcinogenesis in hamsters.  
Food Chem Toxicol. 1997 Mar-Apr; 35(3-4): 387-92.
- Kim HC, Lee YS, Nishikawa A.  
Enhancing effects of phenobarbital and 3-methylcholanthrene on GST-P-positive liver cell foci development in a new medium-term rat liver bioassay using D-galactosamine.  
J Toxicol Environ Health. 1997 Apr 11; 50(5): 519-28.
- Toyoda K, Shoda T, Uneyama C, Takada K, Takahashi M.  
Carcinogenicity study of beta-cyclodextrin in F344 rats.  
Food Chem Toxicol. 1997 Mar-Apr; 35(3-4): 331-6.
- Nishikawa A, Kase Y, Hayakawa T, Yanagisawa T, Kanno J, Hayashi Y.  
Enhancement of cell proliferation and prostaglandin biosynthesis by 1,8-dihydroxyanthraquinone in the rat large intestine.  
Carcinogenesis. 1997 Jun; 18(6): 1259-63.
- Yasuhara K, Shimo T, Mitsumori K, Onodera H, Kitaura K, Takahashi M.  
Lack of carcinogenicity of cyanoguanidine in F344 rats.  
Food Chem Toxicol. 1997 May; 35(5): 475-80.
- Toyoda K, Matsui H, Shoda T, Uneyama C, Takada K, Takahashi M.

- Assessment of the carcinogenicity of stevioside in F344 rats.  
Food Chem Toxicol. 1997 Jun; 35(6): 597-603.
- Takegawa K, Mitumori K, Onodera H, Shimo T, Yasuhara K, Takahashi M, Mutai M, Takahashi M, Yanai T, Masegi T.  
Effects of simultaneous Treatment with Excess Amounts of Vitamin A and Goitrogens on Thyroid Tumorigenesis in Rats.  
J Toxicol Pathol. 1997; 10: 91-6.
  - 高橋道人  
動物実験の立場からがん予防について考える  
日本がん予防研究会 NEWS LETTER, 1997; 12: 9-11.
  - Yamamoto S, Hayashi Y, Mitsumori K, Nomura T.  
Rapid carcinogenicity testing system with transgenic mice harboring human prototype c-HRAS gene.  
Lab Anim Sci. 1997 Apr; 47(2): 121-6.
  - Nishikawa A, Furukawa F, Kasahara K, Lee IS, Suzuki T, Hayashi M, Sofuni T, Takahashi M.  
Comparative study on organ-specificity of tumorigenicity, mutagenicity and cell proliferative activity induced by dimethylnitrosamine in Big Blue mice.  
Cancer Lett. 1997 Aug 19; 117(2): 143-7.
  - Hayashi S, Mitsumori K, Yasuhara K, Mori I, Imazawa T, Onodera H, Nonoyama T, Takahashi M, Hayashi Y.  
Significance of cyclin D1 overexpression and K-*ras* point mutations in lung tumors induced by *N*-methyl-*N*-nitrosourea in hamsters.  
J Toxicol Pathol. 1997; 10: 137-43.
  - Higuchi H, Nakaoka M, Ozaki K, Kawamura S, Okuno S, Matsuo M, Yasuhara K.  
Evaluation of recovery from cyclophosphamide testicular toxicity in rats.  
J Toxicol Pathol. 1997; 10: 165-73.
  - Mitsumori K, Onodera H, Shoda T, Uneyama C, Imazawa T, Takegawa K, Yasuhara K, Watanabe T, Takahashi M.  
Liver tumour-promoting effects of oxfendazole in rats.  
Food Chem Toxicol. 1997 Aug; 35(8): 799-806.
  - 高橋道人

ステビア抽出物の安全性

Japan Food Additives News (日本食品化学ニュース), 1997; 164Vol.17(4): 115-22.

- Tanakamaru Z, Nishikawa A, Furukawa F, Imazawa T, Lee IS, Kasahara K, Tanaka T, Takahashi M.  
Failure of dietary  $\alpha$ -difluoromethylornithine to inhibit gastric carcinogenesis in rats after 8 weeks of treatment with N-methyl-N'-nitro-N-nitrosoguanidine and sodium chloride.  
Cancer Lett. 1997 Nov 25; 120(1): 95-100.
- Takegawa K, Mitsumori K, Onodera H, Mutai M, Kitaura K, Takahashi M, Uneyama C, Yasuhara K, Takahashi M, Yanai T, Masegi T, Hayashi Y.  
UDP-GT involvement in the enhancement of cell proliferation in thyroid follicular cell proliferative lesions in rats treated with thiourea and vitamin A.  
Arch Toxicol. 1997; 71(11): 661-7.
- Yasuhara K, Mitsumori K, Shimo T, Onodera H, Takahashi M, Hayashi Y.  
Mice with focal pulmonary fibrosis caused by monocrotaline are insensitive to urethane induction of lung tumorigenesis.  
Toxicol Pathol. 1997 Nov-Dec; 25(6): 574-81.
- Mitsumori K, Wakana S, Yamamoto S, Kodama Y, Yasuhara K, Nomura T, Hayashi Y, Maronpot RR.  
Susceptibility of transgenic mice carrying human prototype c-Ha-ras gene in a short-term carcinogenicity study of vinyl carbamate and ras gene analyses of the induced tumors.  
Mol Carcinog. 1997 Nov; 20(3): 298-307.
- 笠原健一郎, 古川文夫, 西川秋佳, 田中丸善洋, 金亭津, 池崎信一郎, 高橋道人  
アミノ酸加熱分解産物 MeIQx のラットにおける 16 週間混餌投与の影響  
Bull Natl Inst Health Sci. 1997; 115: 107-11.
- 池田尚子, 木村修一, 今沢孝喜, 西川秋佳, 高橋道人  
マグネシウム欠乏の栄養生理学的研究- 特に超微形態学的検討  
Bull Natl Inst Health Sci. 1997; 115: 112-8.
- 高木久宜, 安原加壽雄, 三森国敏, 小野寺博志, 竹川潔, 高橋道人

ペクチン分解物のラットにおける 13 週間亜急性毒性試験

Bull Natl Inst Health Sci. 1997; 115: 119-24.

- 高田幸一, 豊田和弘, 正田俊之, 畝山智香子, 田村啓, 高橋道人

カロブ色素の F344 ラット 13 週間亜慢性毒性試験

Bull Natl Inst Health Sci. 1997; 115: 93-8.

- 小野寺博志, 三森国敏, 安原加壽雄, 竹川潔, 高橋道人

ファフィア色素の F344 ラットを用いた 13 週間亜慢性毒性試験

Bull Natl Inst Health Sci. 1997; 115: 99-106.

- 畝山智香子

プリン受容体による巨核球の細胞質カルシウムオシレーション

Bull Natl Inst Health Sci. 1997; 115: 49-71

- 森幸雄, 小出彰宏, 古川文夫, 西川秋佳, 高橋道人

喫煙による実験豚発癌抑制の作用機序

Mechanism of preventive effect of cigarette smoke on experimental pancreas

carcinogenicity: Effect on metabolic activation and inactivation,

Environ Mutagen Res. 1997; 19: 163-70.

- Shoda T, Toyoda K, Uneyama C, Takada K, Takahashi M.

Lack of carcinogenicity of medium-viscosity liquid paraffin given in the diet to F344 rats.

Food Chem Toxicol. 1997 Dec; 35(12): 1181-90.

- Nishikawa A, Lee IS, Uneyama C, Furukawa F, Kim HC, Kasahara K, Huh N, Takahashi M.

Mechanistic insights into chemopreventive effects of phenethyl isothiocyanate in N-Nitrosobis(2-oxopropyl)amine-treated hamsters

Jpn J Cancer Res. 1997 Dec; 88(12): 1137-1142.

#### 【1998 年】

- 高仲正, 藤森観之助, 大野泰雄, 高橋道人, 川西徹

細胞内及び細胞間情報ネットワークへの影響面からみた環境汚染物質の有害反応の解析に関する研究 (FY 1992~1998)

- 三森国敏

ICHにおける発がん性試験ガイドラインの動向および今後の展望トランスジェニックマウスを用いた短期発がん性試験法

関西実験動物研究会会報 1998; 18: 67.

- 高橋道人  
かわりつつある発がん性評価法  
Foods & Food Ingredients J Jpn. 2-4, (1998)
- Nishikawa A, Tanakamaru Z, Furukawa F, Lee IS, Kasahara K, Ikezaki S, Takahashi M.  
Chemopreventive activity of oltipraz against induction of glandular stomach carcinogenesis in rats by N-methyl-N'-nitro-N-nitrosoguanidine.  
Carcinogenesis. 1998 Feb; 19(2): 365-8.
- Mitsumori K, Imazawa T, Onodera H, Takahashi M, Kitajima S, Inoue T, Kurokawa Y.  
Ultrastructural changes in motor endplates of the lumbrical muscles of rats induced by a microsomal Ca<sup>2+</sup> ATPase inhibitor, 2,5-di(tert-butyl)-1,4-hydroquinone.  
Arch Toxicol. 1998; 72(2): 115-8.
- Shibutani M, Lazarovici P, Johnson AC, Katagiri Y, Guroff G.  
Transcriptional down-regulation of epidermal growth factor receptors by nerve growth factor treatment of PC12 cells.  
J Biol Chem. 1998 Mar 20; 273(12): 6878-84.
- Mitsumori, K.  
Evaluation of new models. 1. Initiation and promotion models and the Hras2 mouse model.  
In: Proceedings of the Fourth International Conference on Harmonization Brussels 1997. Eds. D'Arcy PF, Harron DWG. p. 263-272. The Queen's University of Belfast, Belfast. 1998.
- Watanabe T, Manabe S, Ohashi Y, Onodera H, Mitsumori K.  
Comparison of the induction profile of hepatic drug-metabolizing enzymes between piperonyl butoxide and phenobarbital in rats.  
J Toxicol Pathol. 1998; 11: 1-10.
- Yamazaki Y, Furukawa F, Nishikawa A, Takahashi M, Oka S.  
Histochemical determination of stereoselectivity of esterases in normal pancreas and pancreatic tubular adenocarcinoma of hamsters.

- Biotech Histochem. 1998 Jan; 73(1): 23-31.
- Hori T, Wanibuchi H, Yano Y, Otani S, Nishikawa A, Osugi H, Kinoshita H, Fukushima S.  
Epithelial cell proliferation in the digestive tract induced by space restriction and water-immersion stress.  
Cancer Lett. 1998 Mar 13; 125(1-2): 141-8.
  - Takegawa K, Mitsumori K, Onodera H, Yasuhara K, Kitaura K, Shimo T, Takahashi M.  
Induction of squamous cell carcinomas in the salivary glands of rats by potassium iodide.  
Jpn J Cancer Res. 1998 Feb; 89(2): 105-9.
  - Yamamoto S, Urano K, Koizumi H, Wakana S, Hioki K, Mitsumori K, Kurokawa Y, Hayashi Y, Nomura T.  
Validation of transgenic mice carrying the human prototype c-Ha-ras gene as a bioassay model for rapid carcinogenicity testing.  
Environ Health Perspect. 1998 Feb; 106 (Suppl 1): 57-69.
  - Shoda T, Mitsumori K, Imazawa T, Toyoda K, Tamura T, Takada K, Takahashi M.  
A spontaneous seminal vesicle adenocarcinoma in an aged F344 rat.  
Toxicol Pathol. 1998 May-Jun; 26(3): 448-51.
  - Uneyama C, Uneyama H, Akaike N, Takahashi M.  
Cyclic GMP inhibits cytoplasmic Ca<sup>2+</sup> oscillation by increasing Ca<sup>2+</sup>-ATPase activity in rat megakaryocytes.  
Eur J Pharmacol. 1998 Apr 24; 347(2-3): 355-61.
  - Shinoda K, Mitsumori K, Yasuhara K, Uneyama C, Onodera H, Takegawa K, Takahashi M, Umemura T.  
Involvement of apoptosis in the rat germ cell degeneration induced by nitrobenzene.  
Arch Toxicol. 1998 Apr; 72(5): 296-302.
  - Takegawa K, Mitsumori K, Onodera H, Yasuhara K, Takahashi M, Yanai T, Masegi T, Hayashi Y.  
Immunohistochemical studies of TSH-producing cells in the pituitary and expression of growth factors in thyroidal proliferative lesions in rats treated with thiourea and excess vitamin A.  
J Toxicol Sci. 1998 Aug; 23(3): 213-21.

- Hayashi S, Mori I, Nonoyama T, Mitsumori K.  
Point mutations of the c-H-ras gene in spontaneous liver tumors of transgenic mice carrying the human c-H-ras gene.  
Toxicol Pathol. 1998 Jul-Aug; 26(4): 556-61.
- Mitsumori K, Koizumi H, Nomura T, Yamamoto S.  
Pathological features of spontaneous and induced tumors in transgenic mice carrying a human prototype c-Ha-ras gene used for six-month carcinogenicity studies.  
Toxicol Pathol. 1998 Jul-Aug; 26(4): 520-31.
- Mitsumori K, Yasuhara K, Mori I, Hayashi S, Shimo T, Onodera H, Nomura T, Hayashi Y.  
Pulmonary fibrosis caused by N-methyl-N-nitrosourethane inhibits lung tumorigenesis by urethane in transgenic mice carrying the human prototype c-Ha-ras gene.  
Cancer Lett. 1998 Jul 17; 129(2): 181-90.
- Koujitani T, Mitsumori K, Yasuhara K, Mori I, Onodera H, Nomura T, Hayashi Y.  
Lack of modifying effects of NNK on lung tumorigenesis in hamsters with pulmonary fibrosis induced by MNUR.  
J Toxicol Pathol. 1998; 11(3): 169-75.
- Mori H, Nishikawa A.  
Naturally occurring organosulphur compounds as potential anticarcinogens  
In: Nutrition and Chemical Toxicity, Ed. Costas Ioannides, Wiley. p. 285-299 (1998)
- Higuchi Y, Ono K, Sekita S, Onodera H, Mitsumori K, Nara Y, Satake M.  
Preventive effects of Shichimotsu-koka-to on renal lesions in stroke-prone spontaneously hypertensive rats.  
Biol Pharm Bull. 1998 Sep; 21(9): 914-8.
- Mitumori K, Kurokawa Y  
遺伝子改変動物を用いた短期発がん性試験法の国際的動向  
J Toxicol Sci. 1998; 23 (3): 107-111.
- 西川秋佳, 古川文夫, 高橋道人  
胃発がん修飾要因の探索に関する実験的検討  
消化器癌の発生と進展 1998; 10: 207-10.
- 高橋道人

最近の発がん性評価法について

マイコトキシン. 1998: 47; 1-7.

- 渋谷淳, 高橋道人  
ダイオキシンと発がん  
癌の臨床. 1998: 44 (12): 1517-22.
  - Mitsumori K, Shibutani M, Sato S, Onodera H, Nakagawa J, Hayashi Y, Ando M.  
Relationship between the development of hepato-renal toxicity and cadmium accumulation in rats given minimum to large amounts of cadmium chloride in the long-term: preliminary study.  
Arch Toxicol. 1998 Sep; 72(9) :545-52.
  - 古川文夫, 笠原健一郎, 西川秋佳, 今沢孝喜, 広瀬雅雄  
クロロフィルの F344 ラットを用いた 13 週間亜慢性毒性試験  
Bull Natl Inst Health Sci. 1998; 116: 107-12.
  - Wang X, Suzuki T, Itoh T, Honma M, Nishikawa A, Furukawa F, Takahashi M, Hayashi M, Kato T, Sofuni T.  
Specific mutational spectrum of dimethylnitrosamine in the *lacI* transgene of Big Blue C57BL/6 mice.  
Mutagenesis. 1998 Nov; 13(6): 625-30.
  - Okamiya H, Mitsumori K, Onodera H, Ito S, Imazawa T, Yasuhara K, Takahashi M.  
Mechanistic study on liver tumor promoting effects of piperonyl butoxide in rats.  
Arch Toxicol. 1998 Nov; 72(11): 744-50.
  - Ando M, Hiratsuka H, Nakagawa J, Sato S, Hayashi Y, Mitsumori K.  
Cadmium accumulation in rats treated orally with cadmium chloride for 8 months.  
J Toxicol Sci. 1998 Aug; 23(3): 243-8.
  - Furukawa F, Nishikawa A, Imazawa T, Kasahara K, Takahashi M.  
Enhancing effects of quinacrine on development of hepatopancreatic lesions in N-nitrosobis(2-oxopropyl)amine-initiated hamsters.  
Jpn J Cancer Res. 1998 Feb; 89(2): 131-6.
- 【1999 年】
- Kasahara K, Nishikawa A, Furukawa F, Ikezaki S, Tanakamaru Z, Takagi H, Ikeda T, Imazawa T, Takahashi M.

Suppressive effects of josamycin on the development of altered liver cell foci and chronic nephropathy in a carcinogenicity study.

Food Chem Toxicol. 1999 Jan; 37(1): 61-7.

- Furukawa F, Nishikawa A, Kasahara K, Lee IS, Wakabayashi K, Takahashi M, Hirose M.  
Inhibition by beta-carotene of upper respiratory tumorigenesis in hamsters receiving diethylnitrosamine followed by cigarette smoke exposure.  
Jpn J Cancer Res. 1999 Feb; 90(2): 154-61.
- Matsui H, Takahashi M.  
A novel quantitative morphometry of germ cells for the histopathological evaluation of rat testicular toxicity.  
J Toxicol Sci. 1999 Feb; 24(1): 17-25.
- Mitsumori K.  
食品中に含まれる化学物質についての安全性評価  
食品衛生学雑誌 1999 Feb; 40(1): 1-6.
- Mitsumori K.  
内分泌攪乱作用物質の毒性  
日本農薬学会誌 1999; 24(1): 93-4.
- Mitsumori K, Onodera H, Takahashi M, Funakoshi T, Tamura T, Yasuhara K, Takegawa K, Takahashi M.  
Promoting effects of kojic acid due to serum TSH elevation resulting from reduced serum thyroid hormone levels on development of thyroid proliferative lesions in rats initiated with N-bis(2-hydroxypropyl)nitrosamine.  
Carcinogenesis. 1999 Jan; 20(1): 173-6.
- Mori H, Matsunaga K, Tanakamaru Y, Kawabata K, Yamada Y, Sugie S, Nishikawa A.  
Effects of protocatechuic acid, S-methylmethanethiosulfonate or 5-hydroxy-4-(2-phenyl-(E)ethenyl)-2(5H)-furanone(KYN-54) on 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone-induced pulmonary carcinogenesis in mice.  
Cancer Lett. 1999 Jan 29; 135(2): 123-7.
- Maita K, Kuwahara M, Kosaka T, Inui K, Sugimoto K, Takeuchi Y, Hatakenaka N, Harada T, Yasuhara K, Mitsumori K.

Testicular toxicity of thiamphenicol in Sprague-Dawley rats.

J Toxicol Pathol. 1999; 12(1): 27-34.

- Tamura T, Mitsumori K, Onodera H, Takahashi M, Funakoshi T, Yasuhara K, Takegawa K, Takagi H, Hirose M.  
Time course observation of thyroid proliferative lesions and serum levels of related hormones in rats treated with kojic acid after DHPN initiation.  
J Toxicol Sci. 1999 Aug; 24(3): 145-55.
- Tamura T, Mitsumori K, Onodera H, Fujimoto N, Yasuhara K, Takegawa K, Takahashi M.  
Inhibition of thyroid iodine uptake and organification in rats treated with kojic acid.  
Toxicol Sci. 1999 Feb; 47(2): 170-5.
- Ikezaki S, Nishikawa A, Furukawa F, Tanakamaru Z, Nakamura H, Mori H, Hirose M.  
Influences of long-term administration of 24R, 25-dihydroxyvitamin D<sub>3</sub>, a vitamin D<sub>3</sub> derivative, in rats.  
J Toxicol Sci. 1999 May; 24(2): 133-9.
- Nishikawa A, Furukawa F, Lee IS, Kasahara K, Tanakamaru Z, Nakamura H, Miyauchi M, Kinae N, Hirose M.  
Promoting effects of 3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone on rat glandular stomach carcinogenesis initiated with N-methyl-N'-nitro-N-nitrosoguanidine.  
Cancer Res. 1999 May 1; 59(9): 2045-9.
- Furukawa F, Nishikawa A, Lee IS, Nakamura H, Miyauchi M, Hirose M.  
Chemopreventive activity of oltipraz against induction of glandular stomach carcinogenesis in rats by N-methyl-N'-nitro-N-nitrosoguanidine.  
Proceeding of 3rd International Gastric Cancer Congress. p. 185-9. 1999
- Nishikawa A, Furukawa F, Lee IS, Nakamura H, Miyauchi M, Kinae N, Hirose M.  
Promoting effects of 3-chloro-4-(dichloromethyl)-5-hydroxy-2-(5H)- Furanone [MX,] on rat glandular stomach carcinogenesis initiated with N-methyl-N'-nitro-N-nitrosoguanidine.  
Proceeding of 3rd International Gastric Cancer Congress. p. 197-200. 1999
- Lee IS, Kim HJ, Kim HS, Nishikawa A, Furukawa F, Nakamura H, Miyauchi M, Hirose M, Kim SU.  
Effects of Selagenella tamariscina on the expression of p53, G1 arrest in cell lines and

glandular stomach carcinogenesis in rats initiated with MNNG.

Proceeding of 3rd International Gastric Cancer Congress. p. 191-5. 1999

- Uneyama C, Uneyama H, Torii K, Akaike N.  
Potassium-current oscillation of rat megakaryocytes: As a model system for drug evaluation (Review).  
Int J Mol Med. 1999 Aug; 4(2): 163-9.
- Nishikawa A, Furukawa F, Kasahara K, Tanakamaru Z, Miyauchi M, Nakamura H, Ikeda T, Imazawa T, Hirose M.  
Failure of phenethyl isothiocyanate to inhibit hamster tumorigenesis induced by N-nitrosobis(2-oxopropyl)amine when given during the post-initiation phase.  
Cancer Lett. 1999 Jul 1; 141(1-2): 109-15.
- Hirose M, Hakoi K, Takahashi S, Hoshiya T, Akagi K, Lin C, Saito K, Kaneko H, Shirai T.  
Sequential morphological and biological changes in the glandular stomach induced by oral administration of catechol to male F344 rats.  
Toxicol Pathol. 1999 Jul-Aug; 27(4): 448-55.
- Miyauchi M, Nishikawa A, Furukawa F, Kasahara K, Nakamura H, Takahashi M, Hirose M.  
Carcinogenic risk assessment of MeIQx and PhIP in a newborn mouse two-stage tumorigenesis assay.  
Cancer Lett. 1999 Jul 19; 142(1): 75-81.
- Tamura T, Shibutani M, Toyoda K, Shoda T, Takada K, Uneyama C, Takahashi M, Hirose M.  
Tumor-promoting activities of hydroquinone and 1,1-dimethylhydrazine after initiation of newborn mice with 1-methyl-1-nitrosourea.  
Cancer Lett. 1999 Aug 23; 143(1): 71-80.
- Tamura T, Mitsumori K, Onodera H, Takahashi M, Funakoshi T, Yasuhara K, Takegawa K, Takagi H, Hirose M.  
Time course observation of thyroid proliferative lesions and serum levels of related hormones in rats treated with kojic acid after DHPN initiation.  
J Toxicol Sci. 1999 Aug; 24(3): 145-55.
- Fujimoto N, Onodera H, Mitsumori K, Tamura T, Maruyama S, Ito A.

Changes in thyroid function during development of thyroid hyperplasia induced by kojic acid in F344 rats.

Carcinogenesis. 1999 Aug; 20(8): 1567-71.

- Tanaka T, Sugiura H, Inaba R, Nishikawa A, Murakami A, Koshimizu K, Ohigashi H. Immunomodulatory action of citrus auraptene on macrophage functions and cytokine production of lymphocytes in female BALB/c mice. Carcinogenesis. 1999 Aug; 20(8): 1471-6.
- Mitsumori K. Alternative model using rasH2 transgenic mice: Its usefulness, unsolved points and future studies required to be performed to improve the model. In: Assessment of Pharmaceuticals for Potential Human Carcinogenic Risk. Eds. Lumley, C. and McAuslane, N. p. 29-40. Center for Medicines Research International. East Sussex. UK. (1999)
- Hirose M, Takahashi S, Ogawa K, Futakuchi M, Shirai T, Shibutani M, Uneyama C, Toyoda K, Iwata H. Chemoprevention of heterocyclic amine-induced carcinogenesis by phenolic compounds in rats. Cancer Lett. 1999 Sep 1; 143(2): 173-8.
- Shoda T, Onodera H, Takeda M, Uneyama C, Imazawa T, Takegawa K, Yasuhara K, Watanabe T, Hirose M, Mitsumori K. Liver tumor promoting effects of fenbendazole in rats. Toxicol Pathol. 1999 Sep-Oct; 27(5): 553-62.
- Shinoda K, Mitsumori K, Yasuhara K, Uneyama C, Onodera H, Hirose M, Uehara M. Doxorubicin induces male germ cell apoptosis in rats. Arch Toxicol. 1999 Jun-Jul; 73(4-5): 274-81.
- Lee IS, Nishikawa A, Furukawa F, Kasahara K, Kim SU. Effects of *Selaginella tamariscina* on in vitro tumor cell growth, p53 expression, G1 arrest and in vivo gastric cell proliferation. Cancer Lett. 1999 Sep 20; 144(1): 93-9.
- Koide A, Fuwa K, Furukawa F, Hirose M, Nishikawa A, Mori Y. Effect of cigarette smoke on the mutagenic activation of environmental carcinogens by rodent liver.

Mutat Res. 1999 Jul 16; 428(1-2): 165-76.

- Takagi H, Mitsumori K, Onodera H, Takegawa K, Shimo T, Koujitani T, Hirose M.  
A preliminary study of the effect of *Plantago Ovata* forsk on the development of 7, 12-dimethylbenz[a]anthracene-initiated rat mammary tumors under the influence of hypercholesterolemia.  
J Toxicol Pathol. 1999; 12(3): 141-5.
- Ichiki T, Onodera H, Uneyama C, Takegawa K, Yasuhara K, Hirose M, Kikuchi M, Mitsumori K.  
Liver tumor promoting effects of febantel in a two-stage hepatocarcinogenesis model of rats using d-galactosamine and diethylnitrosamine.  
J Toxicol Pathol. 1999; 12(3): 113-7.
- Hiratsuka H, Satoh Si, Satoh M, Nishijima M, Katsuki Y, Suzuki J, Nakagawa Ji, Sumiyoshi M, Shibutani M, Mitsumori K, Tanaka-Kagawa T, Ando M.  
Tissue distribution of cadmium in rats given minimum amounts of cadmium-polluted rice or cadmium chloride for 8 months.  
Toxicol Appl Pharmacol. 1999 Oct; 160(2): 183-91.
- 長谷川隆一, 広瀬明彦, 西川秋佳, 紅林秀雄, 江馬眞, 黒川雄二  
ジクロロ酢酸の毒性評価と経口摂取による耐容 1 日摂取量の算定  
水環境学会誌 1999; 22(10): 821-6.
- 今沢孝喜, 西川秋佳, 古川文夫, 池田, 中村英明, 宮内眞, 広瀬雅雄  
D-xylose の F344 ラットを用いた 13 週間亜慢性毒性試験,  
Bull Natl Inst Health Sci. 1999; 117: 115-8.
- 宮内眞, 古川文夫, 西川秋佳, 中村英明, 今沢孝喜, 広瀬雅雄  
オレンジ色素の F344 ラットを用いた 13 週間亜慢性毒性試験  
Bull Natl Inst Health Sci. 1999; 117: 123-8.
- 中村英明, 今沢孝喜, 西川秋佳, 古川文夫, 池田, 広瀬雅雄  
Bacillus subtilis gum の F344 ラットを用いた 13 週間亜慢性毒性試験  
Bull Natl Inst Health Sci. 1999; 117: 119-22.
- Niho N, Tamura T, Toyoda K, Uneyama C, Shibutani M, Hirose M.  
[A 13-week subchronic toxicity study of chitin in F344 rats]  
Bull Natl Inst Health Sci. 1999; 117: 129-34. Japanese.

- Yun L, Onodera H, Takagi H, Koujitani T, Yasuhara K, Mitsumori K, Hirose M.  
[A 13-week subchronic oral toxicity study of Perilla extracts in F344 rats]  
Bull Natl Inst Health Sci. 1999; 117: 104-7. Japanese.
- Takagi H, Onodera H, Yun L, Yasuhara K, Koujitani T, Mitsumori K, Hirose M.  
[13-week subchronic oral toxicity study of ammonium sulfate in rats]  
Bull Natl Inst Health Sci. 1999; 117: 108-14. Japanese.
- Hirose M, Takahashi S, Ogawa K, Futakuchi M, Shirai T.  
Phenolics: blocking agents for heterocyclic amine-induced carcinogenesis.  
Food Chem Toxicol. 1999 Sep-Oct; 37(9-10): 985-92.
- Hirose M, Fukushima S, Imaida K, Ito N, Shirai T.  
Modifying effects of phytic acid and gamma-oryzanol on the promotion stage of rat carcinogenesis.  
Anticancer Res. 1999 Sep-Oct; 19(5A): 3665-70.
- Shoda T, Mitsumori K, Onodera H, Toyoda K, Uneyama C, Imazawa T, Hirose M.  
The relationship between decrease in Cx32 and induction of P450 isozymes in the early phase of clofibrate hepatocarcinogenesis in the rat.  
Arch Toxicol. 1999 Sep; 73(7): 373-80.
- Furukawa F, Nishikawa A, Miyauchi M, Nakamura H, Son H-Y, Hirose M.  
Concurrent administration of fish meal and sodium nitrite does not promote glandular stomach carcinogenesis in rats after treatment with N-methyl-N'-nitro-N-nitrosoguanidine.  
J Toxicol Pathol. 1999; 12(4): 171-6.
- Hirose A, Nishikawa A, Kinoshita N, Hasegawa R.  
3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone (MX): toxicological properties and risk assessment in drinking water.  
Rev Environ Health. 1999 Jul-Sep; 14(3): 103-20.
- Kimoto N, Hirose M, Kawabe M, Satoh T, Miyataka H, Shirai T.  
Post-initiation effects of a super critical extract of propolis in a rat two-stage carcinogenesis model in female F344 rats.  
Cancer Lett. 1999 Dec 1; 147(1-2): 221-7.
- Koujitani T, Yasuhara K, Kobayashi H, Shimada A, Onodera H, Takagi H, Tamura T, Hirose M, Mitsumori K.

Absence of tumor promoting activity of xylazine in a two-stage nasal carcinogenesis model in N-bis(2-hydroxypropyl)nitrosamine-treated rats.

J Toxicol Pathol. 1999; 12(4): 203-8.

- Koujitani T, Yasuhara K, Kobayashi H, Shimada A, Onodera H, Takagi H, Hirose M, Mitsumori K.

Tumor-promoting activity of 2,6-dimethylaniline in a two-stage nasal carcinogenesis model in N-bis(2-hydroxypropyl)nitrosamine-treated rats.

Cancer Lett. 1999 Aug 3; 142(2):161-71.

- Radovsky A, Mitsumori K, Chaption RC.

Male reproductive tract.

In: Pathology of the Mouse: Reference and Atlas. Eds. Maronpot RR, Boorman GA, Gaul BW. Cache River Press, Saint Louis, p. 381-407, 1999.

- 広瀬雅雄, 西川秋佳

第2章 癌の発生と脂質 2.7 過酸化脂質と抗酸化物質の関与

In: 脂質栄養学シリーズ4「脂質と癌」, 日本脂質栄養学会監修, 高田秀穂, 浜崎智仁, 奥山治美編, 学会センター関西 学会出版センター, p. 115-29.(1999.9.15).

#### 【2000年】

- Shibusaki M, Uneyama C, Miyazaki K, Toyoda K, Hirose M.

Methacarn fixation: a novel tool for analysis of gene expressions in paraffin-embedded tissue specimens.

Lab Invest. 2000 Feb; 80(2): 199-208.

- Nishikawa A, Furukawa F, Kasahara K, Ikezaki S, Itoh T, Suzuki T, Uchida K, Kurihara M, Hayashi M, Miyata N, Hirose M.

*Trans*-4-hydroxy-2-nonenal, an aldehydic lipid peroxidation product, lacks genotoxicity in *lacI* transgenic mice.

Cancer Lett. 2000 Jan; 148(1): 81-6.

- Furukawa F, Nishikawa A, Ishiwata H, Takahashi M, Hayashi Y, Hirose M.

Renal carcinogenicity of concurrently administered fish meal and sodium nitrite in F344 rats.

Jpn J Cancer Res. 2000 Feb; 91(2): 139-47.

- Imazawa T, Mitsumori K, Kitajima S, Onodera H, Tamura T, Takahashi M, Hirose M. Time course of ultrastructural changes and immunoelectron microscopic localization of neurocalcin in motor endplates of the lumbrical muscles of rats given a single administration of 2,5-di(tert-butyl)-1,4-hydroquinone. *Acta Neuropathol.* 2000 Feb; 99(2): 109-16.
- Toyoda K, Shibutani M, Sato H, Uneyama C, Takahashi M, Hayashi Y, Hirose M. Lack of carcinogenicity and increased survival in F344 rats treated with 5-fluorouracil for two years. *Food Chem Toxicol.* 2000 Feb-Mar; 38(2-3): 187-93.
- Mitsumori K, Onodera H, Shimo T, Yasuhara K, Takagi H, Koujitani T, Hirose M, Maruyama C, Wakana S. Rapid induction of uterine tumors with p53 point mutations in heterozygous p53-deficient CBA mice given a single intraperitoneal administration of N-ethyl-N-nitrosourea. *Carcinogenesis.* 2000 May; 21(5): 1039-42.
- Son HY, Nishikawa A, Furukawa F, Kasahara KI, Miyauchi M, Nakamura H, Ikeda T, Hirose M. Organ-dependent modifying effects of oltipraz on N-nitrosobis(2-oxopropyl)amine (BOP)-initiation of tumorigenesis in hamsters. *Cancer Lett.* 2000 May 29; 153(1-2): 211-8.
- Imazawa T, Nishikawa A, Furukawa F, Kasahara K, Ikeda T, Takahashi M, Hirose M. Lack of carcinogenicity of gardenia blue colour given chronically in the diet to F344 rats. *Food Chem Toxicol.* 2000 Apr; 38(4): 313-8.
- Chung FL, Nath RG, Ocando J, Nishikawa A, Zhang L. Deoxyguanosine adducts of t-4-hydroxy-2-nonenal are endogenous DNA lesions in rodents and humans: detection and potential sources. *Cancer Res.* 2000 Mar 15; 60(6): 1507-11.
- Shoda T, Mitsumori K, Takahashi T, Horiuchi K, Yamazaki Y, Suzuki Y, Katsuda Y, Yokomoto Y, Kurumi M. Liver tumor promotion by  $\beta$ -naphthoflavone, a strong CYP 1A1/2 inducer, in a 28 week two-stage rat hepatocarcinogenesis model using diethylnitrosamine as an initiator.

- J Toxicol Pathol. 2000; 13(1): 37-43.
- Shinoda K, Mitsumori K, Uneyama C, Uehara M.  
Induction and inhibition of testicular germ cell apoptosis by fluoroacetate in rats.  
Arch Toxicol. 2000 Mar; 74(1): 33-9.
  - Yasuhara K, Kobayashi H, Shimamura Y, Koujitani T, Onodera H, Takagi H, Hirose M, Mitsumori K.  
Toxicity and blood concentrations of xylazine and its metabolite, 2,6-dimethylaniline, in rats after single or continuous oral administrations.  
J Toxicol Sci. 2000 May; 25(2): 105-13.
  - Ikeda T, Nishikawa A, Imazawa T, Kimura S, Hirose M.  
Dramatic synergism between excess soybean intake and iodine deficiency on the development of rat thyroid hyperplasia.  
Carcinogenesis. 2000 Apr; 21(4): 707-13.
  - 畝山智香子  
英語論文を書こう！  
化学 2000; 55(5): 30-1.
  - Miyauchi M, Nishikawa A, Furukawa F, Nakamura H, Son HY, Murakami A, Koshimizu K, Ohigashi H, Hirose M.  
Inhibitory effects of 1'-acetoxychavicol acetate on N-Nitrosobis(2-oxopropyl)-amine-induced initiation of cholangiocarcinogenesis in Syrian hamsters.  
Jpn J Cancer Res. 2000 May; 91(5): 477-81.
  - Furukawa F, Nishikawa A, Miyauchi M, Nakamura H, Son HY, Yamagishi M, Hirose M.  
Concurrent administration of fish meal and sodium nitrite does not promote renal carcinogenesis in rats after initiation with N-ethyl-N-hydroxyethylnitrosamine.  
Cancer Lett. 2000 Jun 1; 154(1): 45-51.
  - Mori I, Yasuhara K, Hayashi SM, Nonoyama T, Nomura T, Mitsumori K.  
Carcinogen dose-dependent variation in the transgene mutation spectrum in urethane-induced lung tumors in transgenic mice carrying the human prototype c-Ha-ras gene.  
Cancer Lett. 2000 May 29; 153(1-2): 199-209.
  - Koujitani T, Yasuhara K, Usui T, Nomura T, Onodera H, Takagi H, Hirose M, Mitsumori K.

Lack of susceptibility of transgenic mice carrying the human c-Ha-ras proto-oncogene (rasH2 mice) to phenolphthalein in a 6-month carcinogenicity study.

Cancer Lett. 2000 May 1; 152(2): 211-6.

- Furukawa F, Nishikawa A, Lee IS, Son HY, Nakamura H, Miyauchi M, Takahashi M, Hirose M.

Inhibition by methionine of pancreatic carcinogenesis in hamsters after initiation with N-nitrosobis(2-oxopropyl) amine.

Cancer Lett. 2000 May 1; 152(2): 163-7.

- Takegawa K, Sakamori M, Koremoto M, Yamada T, Takagi S, Takeuchi M, Yanai T, Masegi T, Mitsumori K.

Large amount of vitamin A has no major effects on thyroidal hormone synthesis in two-stage rat thyroid carcinogenesis model using N-bis(2-hydroxypropyl)nitrosamine and thiourea.

J Toxicol Sci. 2000 May; 25(2): 67-75.

- Hirose M, Yamaguchi T, Lin C, Kimoto N, Futakuchi M, Kono T, Nishibe S, Shirai T. Effects of arctiin on PhIP-induced mammary, colon and pancreatic carcinogenesis in female Sprague-Dawley rats and MeIQx-induced hepatocarcinogenesis in male F344 rats.

Cancer Lett. 2000 Jul 3; 155(1): 79-88.

- Itoh T, Suzuki T, Nishikawa A, Furukawa F, Takahashi M, Xue W, Sofuni T, Hayashi M.

In vivo genotoxicity of 2-amino-3,8-dimethylimidazo[4, 5-f]quinoxaline in *lacI* transgenic (Big Blue) mice.

Mutat Res. 2000 Jun 22; 468(1): 19-25.

- Maronpot RR, Mitsumori K, Mann P, Takaoka M, Yamamoto S, Usui T, Okamiya H, Nishikawa S, Nomura T.

Interlaboratory comparison of the CB6F1-Tg rasH2 rapid carcinogenicity testing model.

Toxicology. 2000 May 5; 146(2-3): 149-59.

- Iwata H, Hosoi M, Miyajima R, Yamamoto S, Mikami S, Yamakawa S, Enomoto M, Imazawa T, Mitsumori K.

Morphogenesis of craniopharyngeal derivatives in the neurohypophysis of Fisher 344

rats: abnormally developed epithelial tissues including parotid glands derived from the stomatodeum.

Toxicol Pathol. 2000 Jul-Aug; 28(4): 568-74.

- Koujitani T, Yasuhara K, Ikeda T, Imazawa T, Tamura T, Toyosawa K, Shimada A, Hirose M, Mitsumori K.  
Sequential observation of 2,6-dimethylaniline-induced nasal lesions in a rat two-stage nasal carcinogenesis model after initiation with N-bis(2-hydroxypropyl) nitrosamine.  
J Vet Med Sci. 2000 Jul; 62(7): 751-6.
- 化学物質安全情報研究会編 講演：三森国敏  
環境ホルモンの問題とその対策 2000
- Shibutani M  
Anesthesia, artificial ventilation and perfusion fixation.  
In: The laboratory rat. Ed. Krinke GJ. Academic Press, p. 511-21. (2000).
- Liu XW, Katagiri Y, Jiang H, Gong LJ, Guo LY, Shibutani M, Johnson AC, Guroff G.  
Cloning and characterization of the promoter region of the rat epidermal growth factor receptor gene and its transcriptional regulation by nerve growth factor in PC12 cells.  
J Biol Chem. 2000 Mar 10; 275(10): 7280-8.
- Shoda T, Mitsumori K, Onodera H, Toyoda K, Uneyama C, Takada K, Hirose M.  
Liver tumor-promoting effect of beta-naphthoflavone, a strong CYP 1A1/2 inducer, and the relationship between CYP 1A1/2 induction and Cx32 decrease in its hepatocarcinogenesis in the rat.  
Toxicol Pathol. 2000 Jul-Aug; 28(4): 540-7.
- Takegawa K, Mitsumori K, Onodera H, Shimo T, Kitaura K, Yasuhara K, Hirose M, Takahashi M.  
Studies on the carcinogenicity of potassium iodide in F344 rats.  
Food Chem Toxicol. 2000 Sep; 38(9): 773-81.
- Mori I, Hayashi S, Nonoyama T, Yasuhara K, Mitsumori K, Masegi T.  
Point mutations of the c-H-ras gene in spontaneous pulmonary tumors of transgenic mice carrying the human c-H-ras gene.  
J Toxicol Pathol. 2000; 13(3): 165-72.
- Toyoda K, Shibutani M, Tamura T, Koujitani T, Uneyama C, Hirose M.  
Repeated dose (28 days) oral toxicity study of flutamide in rats, based on the draft

protocol for the 'Enhanced OECD Test Guideline 407' for screening for endocrine-disrupting chemicals.

Arch Toxicol. 2000 May; 74(3): 127-32.

- Takegawa K, Mitsumori K, Yasuhara K, Moriyasu M, Sakamori M, Onodera H, Hirose M, Nomura T.  
A mechanistic study of ovarian carcinogenesis induced by nitrofurazone using rasH2 mice.  
Toxicol Pathol. 2000 Sep-Oct; 28(5): 649-55.
- Furukawa F, Nishikawa A, Nakamura H, Miyauchi M, Son H, Hirose M.  
Effects of octreotide, a somatostatin analogue, on initiation of pancreatic carcinogenesis in hamsters with N-nitrosobis(2-oxopropyl)amine.  
Cancer Lett. 2000 Oct 16; 159(1): 43-8.
- Son HY, Nishikawa A, Ikeda T, Nakamura H, Miyauchi M, Imazawa T, Furukawa F, Hirose M.  
Lack of modifying effects of environmental estrogenic compounds on the development of thyroid proliferative lesions in male rats pretreated with N-bis(2-hydroxypropyl)nitrosamine (DHPN).  
Jpn J Cancer Res. 2000 Sep; 91(9): 899-905.
- Son HY, Nishikawa A, Ikeda T, Furukawa F, Hirose M.  
Lack of modification by environmental estrogenic compounds of thyroid carcinogenesis in ovariectomized rats pretreated with N-bis(2-hydroxypropyl)nitrosamine (DHPN).  
Jpn J Cancer Res. 2000 Oct; 91(10): 966-72.
- Nakamura H, Nishikawa A, Furukawa F, Kasahara K, Miyauchi M, Son HY, Hirose M.  
Inhibitory effects of protocatechuic acid on the post-initiation phase of hamster pancreatic carcinogenesis induced by N-nitrosobis(2-oxopropyl)amine.  
Anticancer Res. 2000 Sep- Oct; 20(5B): 3423-7.
- Tamura T, Yasuhara K, Koujitani T, Onodera H, Takagi H, Takizawa T, Hirose M, Hayashi Y, Mitsumori K.  
Lack of modifying effects of cinnamaldehyde on development of lung proliferative lesions induced by urethane in transgenic mice carrying the human prototype c-Ha-ras gene.  
J Toxicol Pathol. 2000; 13(4): 249-55.

- Lee IS, Yang EJ, Kim HS, Chung SK, Furukawa F, Nishikawa A.  
Suppressive effects of *Adenophora triphylla* extracts on in vitro tumor cell growth and in vivo gastric epithelial proliferation.  
*Anticancer Res.* 2000 Sep-Oct; 20(5A): 3227-31.
- Son HY, Nishikawa A, Furukawa F, Lee IS, Ikeda T, Miyauchi M, Nakamura H, Hirose M.  
Modifying effects of 4-phenylbutyl isothiocyanate on N-nitrosobis(2-oxopropyl)amine-induced tumorigenesis in hamsters.  
*Cancer Lett.* 2000 Nov 28; 160(2): 141-7.
- 阿部寛, 古川文夫, 尾崎善孝, 葛西久芳  
実験動物の組織標本作製  
*Medical Technology.* 2000, 12; 28(13): 1475-8.
- Imazawa T, Nishikawa A, Todate A, Furukawa F, Onodera H, Mitsumori K, Hirose M, Hayashi Y.  
Dual effects of prolonged ACTH stimulation on 4-hydroxyaminoquinoline 1-oxide-induced adrenocortical lesions in rats.  
*Toxicol Pathol.* 2000 Jul-Aug; 28(4): 535-9.
- Takagi H, Mitsumori K, Nishikawa A, Onodera H, Furukawa F, Kasahara K, Hirose M.  
Lack of carcinogenic sensitivity of the glandular stomach in heterozygous p53 knockout mice given N-methyl-N-nitrosourea in their drinking water for 26 weeks.  
*Asian Pacific Journal of Cancer Prevention* 2000; 1: 299-303.
- Shibutani M, Mitsumori K, Niho N, Satoh S, Hiratsuka H, Satoh M, Sumiyoshi M, Nishijima M, Katsuki Y, Suzuki J, Nakagawa J, Ando M.  
Assessment of renal toxicity by analysis of regeneration of tubular epithelium in rats given low-dose cadmium chloride or cadmium-polluted rice for 22 months.  
*Arch Toxicol.* 2000 Dec; 74(10): 571-7.
- **【2001 年】**
- Son HY, Nishikawa A, Ikeda T, Imazawa T, Kimura S, Hirose M.  
Lack of effect of soy isoflavone on thyroid hyperplasia in rats receiving an iodine-deficient diet.  
*Jpn J Cancer Res.* 2001 Feb; 92(2): 103-8.
- Hirose M, Nishikawa A, Shibutani M, Mitsumori K.

Environmental agents, endocrine disrupting chemicals and rat thyroid carcinogenesis.  
J Toxicol Pathol. 2001; 14(1): 71-7.

- Mori I, Yasuhara K, Hayashi SM, Nonoyama T, Nomura T, Yanai T, Masegi T, Mitsumori K.  
Aberrant expression of cyclin D1 in pulmonary proliferative lesions induced by high doses of urethane in transgenic mice carrying the human prototype c-H-ras gene.  
J Vet Med Sci. 2001 Mar; 63(3): 261-8.
- 阿部寛, 古川文夫, 尾崎善孝, 葛西久芳  
実験動物の組織標本作製の実際(1)  
Medical Technology. 2001 2; 29(2): 191-6.
- Ikeda T, Nishikawa A, Son HY, Nakamura H, Miyauchi M, Imazawa T, Kimura S, Hirose M.  
Synergistic effects of high-dose soybean intake with iodine deficiency, but not sulfadimethoxine or phenobarbital, on rat thyroid proliferation.  
Jpn J Cancer Res. 2001 Apr; 92(4): 390-5.
- Yasuhara K, Koujitani T, Takegawa K, Nasu M, Onodera H, Takagi H, Hirose M, Mitsumori K.  
Promoting effects of xylazine on development of thyroid tumors in rats initiated with N-bis(2-hydroxypropyl)nitrosamine and the mechanism of action.  
Carcinogenesis. 2001 Apr; 22(4): 613-8.
- 阿部寛, 古川文夫, 尾崎善孝, 葛西久芳  
実験動物の組織標本作製の実際(2)  
Medical Technology. 2001, 4; 29(4): 417-21.
- Nishikawa A, Suzuki T, Masumura K, Furukawa F, Miyauchi M, Nakamura H, Son HY, Nohmi T, Hayashi M, Hirose M.  
Reporter gene transgenic mice as a tool for analyzing the molecular mechanisms underlying experimental carcinogenesis.  
J Exp Clin Cancer Res. 2001 Mar; 20(1): 111-5.
- 阿部寛, 古川文夫, 尾崎善孝, 葛西久芳  
実験動物の組織標本作製の実際(3)  
Medical Technology. 20015; 29(5): 533-7.

- Furukawa F, Nishikawa A, Kasahara K, Miyauchi M, Nakamura H, Son HY, Uchida K, Hirose M.  
Involvement of lipid peroxidation in spontaneous pancreatitis in WBN/Kob rats.  
*Pancreas*. 2001 May; 22(4): 427-30.
- 広瀬明彦, 鎌田栄一, 西川秋佳, 紅林秀雄, 江馬眞, 安藤正典, 黒川雄二, 長谷川隆一  
ホルムアルデヒドの経口および吸入暴露による毒性と水道水における安全性の評価  
*水環境学会誌* 2001; 24(5): 308-16.
- Kimoto N, Hirose M, Futakuchi M, Iwata T, Kasai M, Shirai T.  
Site-dependent modulating effects of conjugated fatty acids from safflower oil in a rat two-stage carcinogenesis model in female Sprague-Dawley rats.  
*Cancer Lett*. 2001 Jul 10; 168(1): 15-21.
- Hirose M, Hoshiya T, Mizoguchi Y, Nakamura A, Akagi K, Shirai T.  
Green tea catechins enhance tumor development in the colon without effects in the lung or thyroid after pretreatment with 1,2-Dimethylhydrazine or 2,2'-dihydroxy-di-n-propylnitrosamine in male F344 rats.  
*Cancer Lett*. 2001 Jul 10; 168(1): 23-9.
- Takagi H, Mitsumori K, Onodera H, Nasu M, Tamura T, Yasuhara K, Takegawa K, Hirose M.  
Modifying effects of endocrine disrupting chemicals on N-bis (2-hydroxypropyl) nitrosamine and sulfadimethoxine-induced thyroid carcinogenesis in rats.  
*J Toxicol Pathol*. 2001; 14(2): 121-8.
- Ueda M, Mitsumori K, Onodera H, Takagi H, Yasuhara K, Takizawa T, Hirose M.  
Lack of modifying effects of bisphenol A and roasted-ground soybean (Kinako) on N-ethyl-N-nitrosourea-induced uterine carcinogenesis in heterozygous p53 deficient CBA mice.  
*J Toxicol Pathol*. 2001; 14(2): 129-34.
- Takizawa T, Mitsumori K, Takagi H, Onodera H, Yasuhara K, Tamura T, Hirose M.  
Modifying effects of flumequine on dimethylnitrosamine-induced hepatocarcinogenesis in heterozygous p53 deficient CBA mice.

- J Toxicol Pathol. 2001; 14(2): 135-43.
- Morimura K, Hori T, Kaneko M, Nishikawa T, Nishikawa A, Wanibuchi H, Takada N, Osugi H, Fukushima S.  
Promotion of chemically induced rat esophageal tumorigenesis with post-initiation ethanol modification.  
Teratog Carcinog Mutagen. 2001; 21(4): 295-301.
  - Nakamura H, Furukawa F, Nishikawa A, Miyauchi M, Son HY, Imazawa T, Hirose M.  
Results of a 13-week oral toxicity of a tocotrienol preparation in rats.  
Food Chem Toxicol. 2001 Aug; 39(8): 799-805.
  - Imazawa T, Nishikawa A, Shibutani M, Ogasawara H, Furukawa F, Ikeda T, Suda K, Hirose M.  
Induction of pancreatic islet cell tumors in rats by repeated intravenous administration of 4-hydroxyaminoquinoline 1-oxide.  
Toxicol Pathol. 2001 May-Jun; 29(3): 320-7.
  - Shoda T, Yasuhara K, Moriyasu M, Takahashi T, Uneyama C, Hirose M, Mitsumori K.  
Testicular toxicity of nitrofurazone causing germ cell apoptosis in rats.  
Arch Toxicol. 2001 Jul; 75(5): 297-305.
  - Koujitan T, Yasuhara K, Toyosawa K, Shimada A, Onodera H, Takagi H, Tamura T, Hirose M, Mitsumori K.  
Immunohistochemical and ultrastructural studies of 2,6-dimethylaniline-induced nasal proliferative lesions in a rat two-stage nasal carcinogenesis model initiated with N-bis(2-hydroxypropyl)nitrosamine.  
Toxicol Pathol. 2001 May-Jun; 29(3): 300-7.
  - Niho N, Shibutani M, Tamura T, Toyoda K, Uneyama C, Takahashi N, Hirose M.  
Subchronic toxicity study of gallic acid by oral administration in F344 rats.  
Food Chem Toxicol. 2001 Nov; 39(11): 1063-70.
  - Tamura T, Mitsumori K, Onodera H, Fujimoto N, Yasuhara K, Takegawa K, Takagi H, Hirose M.  
Dose-threshold for thyroid tumor-promoting effects of orally administered kojic acid in rats after initiation with N-bis(2-hydroxypropyl) nitrosamine.  
J Toxicol Sci. 2001 May; 26(2): 85-94.
  - Tanakamaru Z, Mori I, Nishikawa A, Furukawa F, Takahashi M, Mori H.

Essential similarities between spontaneous and MeIQx-promoted aberrant crypt foci in the F344 rat colon.

Cancer Lett. 2001 Oct 30; 172(2): 143-9.

- 西川秋佳  
動物実験データの解釈—イソチオシアナート類を例として—  
日本がん予防研究会 News Letter. 2001 Dec; 30: 2-3
- Umemura T, Kodama Y, Hioki K, Inoue T, Nomura T, Kurokawa Y.  
Butylhydroxytoluene (BHT) increases susceptibility of transgenic rasH2 mice to lung carcinogenesis.  
J Cancer Res Clin Oncol. 2001 Oct; 127(10): 583-90.
- Shibutani M, Mitsumori K, Satoh S, Hiratsuka H, Satoh M, Sumiyoshi M, Nishijima M, Katsuki Y, Suzuki J, Nakagawa J, Akagi T, Imazawa T, Ando M.  
Relationship between toxicity and cadmium accumulation in rats given low amounts of cadmium chloride or cadmium-polluted rice for 22 months.  
J Toxicol Sci. 2001 Dec; 26(5): 337-58.
- Onodera H, Mitsumori K, Takagi H, Yasuhara K, Koujitani T, Tamura T, Imai T, Hirose M.  
Susceptibility of heterozygous p53 deficient CBA mice to induction of liver proliferative lesions by phenobarbital after dimethylnitrosamine initiation.  
J Toxicol Pathol. 2001; 14(4): 273-8.
- Koujitani T, Yasuhara K, Tamura T, Onodera H, Takagi H, Takizawa T, Hirose M, Hayashi Y, Mitsumori K.  
Lack of modifying effects of eugenol on development of lung proliferative lesions induced by urethane in transgenic mice carrying the human prototype c-Ha-ras gene.  
J Toxicol Sci. 2001 Aug; 26(3): 129-39.
- Masutomi N, Toyoda K, Shibutani M, Niho N, Uneyama C, Takahashi N, Hirose M.  
Toxic effects of benzyl and allyl isothiocyanates and benzyl-isoform specific metabolites in the urinary bladder after a single intravesical application to rats.  
Toxicol Pathol. 2001 Nov-Dec; 29(6): 617-22.
- Okazaki K, Okazaki S, Nishimura S, Nakamura H, Kitamura Y, Hatayama K, Nakamura A, Tsuda T, Katsumata T, Nishikawa A, Hirose M.  
A repeated 28-day oral dose toxicity study of methoxychlor in rats, based on the

'enhanced OECD test guideline 407' for screening endocrine-disrupting chemicals.  
Arch Toxicol. 2001 Nov; 75(9): 513-21.

- Ikezaki S, Nishikawa A, Furukawa F, Kudo K, Nakamura H, Tamura K, Mori H.  
Chemopreventive effects of curcumin on glandular stomach carcinogenesis induced by  
N-methyl-N'-nitro-N-nitrosoguanidine and sodium chloride in rats.  
Anticancer Res. 2001 Sep-Oct; 21(5): 3407-11.

- 阿部寛, 古川文夫  
これはやってはいけない臨床検査禁忌・注意マニュアル  
Medical Technology. 臨時増刊号 2001; 29(3): 1619.

【2002年】

- Imai T, Yasuhara K, Tamura T, Takizawa T, Ueda M, Hirose M, Mitsumori K.  
Inhibitory effects of cinnamaldehyde on 4-(methylnitrosamino)-1-(3-pyridyl)-1-  
butanone-induced lung carcinogenesis in rasH2 mice.  
Cancer Lett. 2002 Jan 10; 175(1): 9-16.
- Nishikawa A, Furukawa F, Miyauchi M, Son HY, Okazaki K, Koide A, Mori Y, Hirose  
M.  
Enhancement by cigarette smoke exposure of 2-amino-3,8-dimethylimidazo[4,5-  
f]quinoxaline-induced rat hepatocarcinogenesis in close association with elevation of  
hepatic CYP1A2.  
Jpn J Cancer Res. 2002 Jan; 93(1): 24-31.
- Uneyama C, Shibutani M, Nakagawa K, Masutomi N, Hirose M.  
Methacarn, a fixation tool for multipurpose gene expression analysis from paraffin-  
embedded tissue materials.  
Current Topics in Biochemical Research (Short Communication) 2002; 3: 237-42.
- Okazaki K, Imazawa T, Nakamura H, Furukawa F, Nishikawa A, Hirose M.  
A repeated 28-day oral dose toxicity study of 17alpha-methyltestosterone in rats, based  
on the 'enhanced OECD Test Guideline 407' for screening the endocrine-disrupting  
chemicals.  
Arch Toxicol. 2002 Jan; 75(11-12): 635-42.
- Hirose M, Nishikawa A, Shibutani M, Imai T, Shirai T.  
Chemoprevention of heterocyclic amine-induced mammary carcinogenesis in rats.  
Environ Mol Mutagen. 2002; 39(2-3): 271-8.

- Miyauchi M, Nakamura H, Furukawa F, Son HY, Nishikawa A, Hirose M.  
Promoting effects of combined antioxidant and sodium nitrite treatment on forestomach carcinogenesis in rats after initiation with N-methyl-N'-nitro-N-nitrosoguanidine.  
Cancer Lett. 2002 Apr 8; 178(1): 19-24.
- Furukawa F, Nishikawa A, Chihara T, Shimpo K, Beppu H, Kuzuya H, Lee IS, Hirose M.  
Chemopreventive effects of *Aloe arborescens* on N-nitrosobis(2-oxopropyl)amine-induced pancreatic carcinogenesis in hamsters.  
Cancer Lett. 2002 Apr 25; 178(2): 117-22.
- Takagi H, Mitsumori K, Onodera H, Nasu M, Tamura T, Yasuhara K, Takegawa K, Hirose M.  
Improvement of a two-stage carcinogenesis model to detect modifying effects of endocrine disrupting chemicals on thyroid carcinogenesis in rats.  
Cancer Lett. 2002 Apr 8; 178(1): 1-9.
- Koujitani T, Yasuhara K, Onodera H, Takagi H, Tamura T, Hirose M, Mitsumori K.  
The utility of N-nitrosamines as Initiators for a 26-week rat two-stage nasal carcinogenesis model.  
J Toxicol Pathol. 2002; 15(1): 39-43.
- Takizawa T, Imai T, Mitsumori K, Takagi H, Onodera H, Yasuhara K, Ueda M, Tamura T, Hirose M.  
Gonadal toxicity of an ethanol extract of *psoralea corylifolia* in a rat 90-day repeated dose study.  
J Toxicol Sci. 2002 May; 27(2): 97-105.
- Niho N, Shibutani M, Toyoda K, Sato H, Hirose A, Imaida K, Takahashi M, Hayashi Y, Hirose M.  
Dose- and time-response studies of sodium o-phenylphenate urinary bladder carcinogenicity in rats.  
Food Chem Toxicol. 2002 May; 40(5): 715-22.
- Shibutani M, Takahashi N, Kobayashi T, Uneyama C, Masutomi N, Nishikawa A, Hirose M.  
Molecular profiling of genes up-regulated during promotion by phenobarbital treatment in a medium-term rat liver bioassay.

- Carcinogenesis. 2002 Jun; 23(6): 1047-55.
- Imaoka M, Kashida Y, Watanabe T, Ueda M, Onodera H, Hirose M, Mitsumori K.  
Tumor promoting effect of phenolphthalein on development of lung tumors induced by N-ethyl-N-nitrosourea in transgenic mice carrying human prototype c-Ha-ras gene.  
J Vet Med Sci. 2002 Jun; 64(6): 489-93.
  - Furukawa F, Nishikawa A, Kitahori Y, Tanakamaru Z, Hirose M.  
Spontaneous development of aberrant crypt foci in F344 rats.  
J Exp Clin Cancer Res. 2002 Jun; 21(2): 197-201.
  - Kasahara K, Nishikawa A, Furukawa F, Ikezaki S, Tanakamaru Z, Lee IS, Imazawa T, Hirose M.  
A chronic toxicity study of josamycin in F344 rats.  
Food Chem Toxicol. 2002 Jul; 40(7): 1017-22.
  - Ueda M, Takagi H, Onodera H, Yasuhara K, Takizawa T, Imai T, Mitsumori K, Matsui T, Hirose M.  
Enhancing effects of beta-estradiol 3-benzoate but not methoxychlor on the promotion / progression stage of chemically-induced mammary carcinogenesis in ovariectomized rats.  
Jpn J Cancer Res. 2002 Jul; 93(7): 752-9.
  - Uehara T, Kashida Y, Watanabe T, Yasuhara K, Onodera H, Hirose M, Mitsumori K.  
Susceptibility of liver proliferative lesions in heterozygous p53 deficient CBA mice to various carcinogens.  
J Vet Med Sci. 2002 Jul; 64(7): 551-6.
  - 広瀬明彦, 西川秋佳, 江馬真, 紅林秀雄, 山田雅巳, 長谷川隆一  
メチル-tert-ブチルエーテル(MTBE)の毒性情報  
水環境学会誌 2002; 25(8): 491-6.
  - Imai T, Yasuhara K, Matsui H, Maruyama S, Fujimoto N, Mitsumori K, Hirose M.  
Iron lactate induction of pancreatic and endometrial proliferative lesions and a lack of increased tumors in a 104-week carcinogenicity study in F344 rats.  
Food Chem Toxicol. 2002 Oct; 40(10): 1441-8.
  - Umemura T, Kodama Y, Hioki K, Nomura T, Nishikawa A, Hirose M, Kurokawa Y.  
The mouse rasH2/BHT model as an in vivo rapid assay for lung carcinogens.  
Jpn J Cancer Res. 2002 Oct; Aug: 861-6.

- Watanabe T, Ueda M, Yasuhara K, Onodera H, Hirose M, Mitsumori K.  
Modifying effects of genistein, 4-nonylphenol and methoxychlor on N-ethyl-N-nitrosourea-induced uterine carcinogenesis in rasH2 transgenic mice harboring a human prototype C-Ha-ras gene.  
J Toxicol Pathol. 2002; 15(3): 145-51.
- Uneyama C, Shibutani M, Masutomi N, Takagi H, Hirose M.  
Methacarn fixation for genomic DNA analysis in microdissected, paraffin-embedded tissue specimens.  
J Histochem Cytochem. 2002 Sep; 50(9): 1237-45.
- Teshima R, Watanabe T, Okunuki H, Isuzugawa K, Akiyama H, Onodera H, Imai T, Toyoda M, Sawada J.  
Effect of subchronic feeding of genetically modified corn(CBH351) on immune system in BN rats and B10A mice.  
食品衛生学雑誌 2002 Oct; 43(5): 273-9.
- Okazaki K, Okazaki S, Nakamura H, Kitamura Y, Hatayama K, Wakabayashi S, Tsuda T, Katsumata T, Nishikawa A, Hirose M.  
A repeated 28-day oral dose toxicity study of genistein in rats, based on the 'Enhanced OECD Test Guideline 407' for screening endocrine-disrupting chemicals.  
Arch Toxicol. 2002 Oct; 76(10): 553-9.
- Fukushima S, Wanibuchi H, Morimura K, Wei M, Nakae D, Konishi Y, Tsuda H, Uehara N, Imaida K, Shirai T, Tatematsu M, Tsukamoto T, Hirose M, Furukawa F, Wakabayashi K, Totsuka Y.  
Lack of a dose-response relationship for carcinogenicity in the rat liver with low doses of 2-amino-3,8-dimethylimidazo[4,5-f]quinoxaline or N-nitrosodiethylamine.  
Jpn J Cancer Res. 2002 Oct; 93(10): 1076-82.
- 小泉睦子, 大野泰雄, 広瀬雅雄, 江馬眞, 井上達, 長谷川隆一  
DINP の毒性評価と耐容 1 日摂取量の算定  
日本食品化学学会誌 2002; 9(2): 39-45.
- Yamagishi M, Natsume M, Osakabe N, Nakamura H, Furukawa F, Imazawa T, Nishikawa A, Hirose M.  
Effects of cacao liquor proanthocyanidins on PhIP-induced mutagenesis in vitro, and in vivo mammary and pancreatic tumorigenesis in female Sprague-Dawley rats.

Cancer Lett. 2002 Nov 28; 185(2): 123-30.

- Okazaki K, Yamagishi M, Son HY, Imazawa T, Furukawa F, Nakamura H, Nishikawa A, Masegi T, Hirose M.  
Simultaneous treatment with benzyl isothiocyanate, a strong bladder promoter, inhibits rat urinary bladder carcinogenesis by N-butyl-N-(4-hydroxybutyl)nitrosamine.  
Nutr Cancer. 2002; 42(2): 211-6.
- Onodera H, Imai T, Takagi H, Tamura T, Ueda M, Mitsumori K, Hirose M.  
Difference in the types of uterine tumors between heterozygous p53-deficient and wild type CBA mice treated with ethinylestradiol after N-ethyl-N-nitrosourea initiation.  
J Toxicol Pathol. 2002; 15(4): 203-7.
- Itoh J, Kashida Y, Watanabe T, Yasuhara K, Takizawa T, Ueda M, Yoshimura H, Hirose M, Mitsumori K.  
Lack of modifying effect of glycerol in pulmonary carcinogenesis in rasH2 mice induced by urethane or 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK).  
J Toxicol Pathol. 2002; 15(4): 215-20.
- Arai K, Shibutani M, Matsuda H.  
Distribution of the class II  $\beta$ -Tubulin in developmental and adult rat tissues.  
Cell Motility and Cytoskeleton. 2002; 52: 174-82.
- Hirose M, Yamaguchi T, Mizoguchi Y, Akagi K, Futakuchi M, Shirai T.  
Lack of inhibitory effects of green tea catechins in 1,2-dimethylhydrazine-induced rat intestinal carcinogenesis model: comparison of the different formulations, administration routes and doses.  
Cancer Lett. 2002 Dec 15; 188(1-2): 163-70.
- Watanabe T, Kashida Y, Yasuhara K, Koujitani T, Hirose M, Mitsumori K.  
Rapid induction of uterine endometrial proliferative lesions in transgenic mice carrying a human prototype c-Ha-ras gene (rasH2 mice) given a single intraperitoneal injection of N-ethyl-N-nitrosourea.  
Cancer Lett. 2002 Dec 15; 188(1-2): 39-46.
- Yada H, Hirose M, Tamano S, Kawabe M, Sano M, Takahashi S, Futakuchi M, Miki T, Shirai T.  
Effects of antioxidant 1-O-hexyl-2,3,5-trimethylhydroquinone or ascorbic acid on carcinogenesis induced by administration of aminopyrine and sodium nitrite in a rat

multi-organ carcinogenesis model.

Jpn J Cancer Res. 2002 Dec; 93(12): 1299-307.

- Shibutani M, Uneyama C.  
Methacarn: a fixation tool for multipurpose genetic analysis from paraffin-embedded tissues.  
Methods Enzymol. 2002; 356: 114-25.
- Nakamura H, Okazaki K, Nishikawa A, Furukawa F, Kasahara K, Miyauchi M, Imazawa T, Uchida K, Hirose M.  
Enhancing effects of oltipraz on the development of spontaneous hepatic lesions in LEC rats.  
Toxicol Pathol. 2002; 30: 173-7.  
**【2003年】**
- Shibutani M, Uneyama C, Masutomi N, Takagi H, Hirose M.  
Application of methacarn fixation for genetic analysis in microdissected paraffin-embedded tissue specimens.  
In: Toxicogenomics, Eds. T. Inoue, WD. Pennie. Springer-Verlag Tokyo. p. 100-106. 2003.
- Mori Y, Koide A, Kobayashi Y, Furukawa F, Hirose M, Nishikawa A.  
Effects of cigarette smoke and a heterocyclic amine, MeIQx on cytochrome P-450, mutagenic activation of various carcinogens and glucuronidation in rat liver.  
Mutagenesis. 2003 Jan; 18(1): 87-93.
- Umemura T, Kodama Y, Kanki K, Iatropoulos MJ, Nishikawa A, Hirose M, Williams GM.  
Pentachlorophenol (but not phenobarbital) promotes intrahepatic biliary cysts induced by diethylnitrosamine to cholangio cystic neoplasms in B6C3F1 mice possibly due to oxidative stress.  
Toxicol Pathol. 2003 Jan-Feb; 31(1): 10-3.
- 西川秋佳  
COX-2 阻害剤によるハムスター膀胱発がんの抑制  
日本がん予防研究会 News Letter. 2003 Mar NO.35.
- Okamura M, Kashida Y, Watanabe T, Yasuhara K, Onodera H, Hirose M, Usui T, Tamaoki N, Mitsumori K.

Lack of susceptibility of heterozygous p53-knockout CBA and CIEA mice to phenolphthalein in a 6-month carcinogenicity study.

Toxicology. 2003 Mar 14; 185(1-2): 17-22.

- Son HY, Nishikawa A, Okazaki K, Kanki K, Yamagishi M, Imazawa T, Umemura T, Hirose M.  
Prolonged effects of beta-estradiol 3-benzoate on thyroid tumorigenesis in gonadectomized rats pretreated with N-bis(2-hydroxypropyl)nitrosamine.  
Cancer Lett. 2003 Feb 10; 190(1): 21-9.
- Furukawa F, Nishikawa A, Lee IS, Kanki K, Umemura T, Okazaki K, Kawamori T, Wakabayashi K, Hirose M.  
A cyclooxygenase-2 inhibitor, nimesulide, inhibits postinitiation phase of N-nitrosobis(2-oxopropyl)amine-induced pancreatic carcinogenesis in hamsters.  
Int J Cancer. 2003 Apr 10; 104(3): 269-73.
- Yamagishi M, Natsume M, Osakabe N, Okazaki K, Furukawa F, Imazawa T, Nishikawa A, Hirose M.  
Chemoprevention of lung carcinogenesis by cacao liquor proanthocyanidins in a male rat multi-organ carcinogenesis model.  
Cancer Lett. 2003 Feb 28; 191(1): 49-57.
- Fukushima S, Wanibuchi H, Morimura K, Wei M, Nakae D, Konishi Y, Tsuda H, Takasuka N, Imaida K, Shirai T, Tatematsu M, Tsukamoto T, Hirose M, Furukawa F.  
Lack of initiation activity in rat liver of low doses of 2-amino-3,8-dimethylimidazo[4,5-f]quinoxaline.  
Cancer Lett. 2003 Feb 28; 191(1): 35-40.
- Narama I, Imaida K, Iwata H, Nakae D, Nishikawa A, Harada T.  
A review of nomenclature and diagnostic criteria for proliferative lesions in the liver of rats by a working group of the Japanese Society of Toxicologic Pathology.  
J Toxicol Pathol. 2003; 16(1): 1-17.
- Takahashi A, Kashida Y, Watanabe T, Yasuhara K, Takizawa T, Hirose M, Yoshimura H, Mitsumori K.  
Lack of modifying effects of 2,6-dimethylaniline on lung carcinogenesis in transgenic mice carrying human prototype c-Ha-ras gene initiated with 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone.

- J Toxicol Pathol. 2003; 16(1): 25-31.
- Minemura Y, Kashida Y, Watanabe T, Yasuhara K, Takizawa T, Hirose M, Mitsumori K. Modifying effects of 2,6-dimethylaniline on nasal carcinogenesis in rasH2 mice initiated with 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone. J Toxicol Pathol. 2003; 16(1): 41-7.
  - Son HY, Nishikawa A, Kanki K, Okazaki K, Kitamura Y, Lee KY, Umemura T, Hirose M. Synergistic interaction between excess caffeine and deficient iodine on the promotion of thyroid carcinogenesis in rats pretreated with N-bis(2-hydroxypropyl)nitrosamine. Cancer Sci. 2003; 94(4): 334-7.
  - Nishikawa A, Morse MA, Chung FL. Inhibitory effects of 2-mercaptoethane sulfonate and 6-phenylhexyl isothiocyanate on urinary bladder tumorigenesis in rats induced by N-butyl-N-(4-hydroxybutyl) nitrosamine. Cancer Lett. 2003 Apr 10; 193(1): 11-16.
  - Takizawa T, Mitsumori K, Tamura T, Nasu M, Ueda M, Imai T, Hirose M. Hepatocellular tumor induction in heterozygous p53-deficient CBA mice by a 26-week dietary administration of kojic acid. Toxicol Sci. 2003 Jun; 73(2): 287-93.
  - Okamura M, Yasuhara K, Koujitani T, Nasu M, Hirose M, Mitsumori K. Dose-threshold for thyroid tumor-promoting effects of xylazine in rats. Toxicology. 2003 Jun 30; 188(2-3): 275-83.
  - Umemura T, Kai S, Hasegawa R, Kanki K, Kitamura Y, Nishikawa A, Hirose M. Prevention of dual promoting effects of pentachlorophenol, an environmental pollutant, on diethylnitrosamine-induced hepato- and cholangiocarcinogenesis in mice by green tea infusion. Carcinogenesis. 2003 Jun; 24(6): 1105-9.
  - Akagi K, Sano M, Ogawa K, Hirose M, Goshima H, Shirai T. Involvement of toxicity as an early event in urinary bladder carcinogenesis induced by phenethyl isothiocyanate, benzyl isothiocyanate, and analogues in F344 rats. Toxicol Pathol. 2003 Jul-Aug; 31(4): 388-96.
  - Kanki K, Nishikawa A, Furukawa F, Kitamura Y, Imazawa T, Umemura T, Hirose M.

- A 13-week subchronic toxicity study of paprika color in F344 rats.  
Food Chem Toxicol. 2003 Oct; 41(10): 1337-43.
- Onose J, Imai T, Hasumura M, Ueda M, Hirose M.  
Rapid induction of colorectal tumors in rats initiated with 1,2-dimethylhydrazine followed by dextran sodium sulfate treatment.  
Cancer Lett. 2003 Aug 20; 198(2): 145-52.
  - Watanabe T, Kashida Y, Ueda M, Onodera H, Hirose M, Mitsumori K.  
Promoting effects of ethinylestradiol but not atrazine on N-ethyl-N-nitrosourea-induced uterine carcinogenesis in ICR mice  
J Toxicol Pathol. 2003; 16(3): 139-45.
  - Toyosawa K, Tanaka K, Imai T, Yasuhara K, Koujitani T, Hirose M, Mitsumori K.  
Mutation and overexpression of the transgene in ethylnitrosourea-induced tumors in mice carrying a human prototype c-Ha-ras gene.  
Toxicol Pathol. 2003 Sep-Oct; 31(5): 491-5.
  - Watanabe T, Kashida Y, Ueda M, Onodera H, Takizawa T, Hirose M, Mitsumori K.  
Inhibition by ethinylestradiol of N-ethyl-N-nitrosourea-initiated uterine carcinogenesis in transgenic mice carrying a human prototype C-Ha-ras gene (rasH2 mice).  
Toxicol Pathol. 2003 Sep-Oct; 31(5): 496-505.
  - Kitamura Y, Nishikawa A, Furukawa F, Nakamura H, Okazaki K, Umemura T, Imazawa T, Hirose M.  
A subchronic toxicity study of shea nut color in Wistar rats.  
Food Chem Toxicol. 2003 Nov; 41(11): 1537-42.
  - 広瀬雅雄  
「発がん性の問題点：実験的立場から」  
Foods Food Ingredients J Jpn. 2003; 208(10): 862-73.
  - Son HY, Nishikawa A, Okazaki K, Lee K, Imazawa T, Hirose M.  
Lack of modifying effects of atrazine and/or tamoxifen on thyroid carcinogenesis in rats pretreated with N-bis(2-hydroxypropyl)nitrosamine (DHPN).  
Food Chem Toxicol. 2003 Dec; 41(12): 1811-6.
  - Masumura K, Horiguchi M, Nishikawa A, Umemura T, Kanki K, Kanke Y, Nohmi T.  
Low dose genotoxicity of 2-amino-3,8-dimethylimidazo[4,5-f]quinoxaline (MeIQx) in *gpt* delta transgenic mice.

- Mutat Res. 2003 Nov 10; 541(1-2): 91-102.
- Okazaki K, Umemura T, Imazawa T, Nishikawa A, Masegi T, Hirose M.  
Enhancement of urinary bladder carcinogenesis by combined treatment with benzyl isothiocyanate and N-butyl-N-(4-hydroxybutyl)nitrosamine in rats after initiation.  
Cancer Sci. 2003 Nov; 94(11): 948-52.
  - Masutomi N, Shibutani M, Takagi H, Uneyama C, Takahashi N, Hirose M.  
Impact of dietary exposure to methoxychlor, genistein, or diisononyl phthalate during the perinatal period on the development of the rat endocrine/reproductive systems in later life.  
Toxicology. 2003 Nov 5; 192(2-3): 149-70.
  - Imazawa T, Nishikawa A, Toyoda K, Furukawa F, Mitsui M, Hirose M.  
Sequential alteration of apoptosis, p53 expression, and cell proliferation in the rat pancreas treated with 4-hydroxyaminoquinoline 1-oxide.  
Toxicol Pathol. 2003 Nov-Dec; 31(6): 625-31.
  - Kitamura Y, Yamagishi M, Okazaki K, Son HY, Imazawa T, Nishikawa A, Iwata T, Yamauchi Y, Kasai M, Tsutsumi K, Hirose M.  
Lack of significant inhibitory effects of a plant lignan tracheloside on 2-amino-1-methyl-6-phenylimidazo[4,5-*b*]pyridine (PhIP)-induced mammary carcinogenesis in female Sprague-Dawley rats.  
Cancer Lett. 2003 Oct 28; 200(2): 133-9.
  - Lee IS, Nishikawa A.  
*Polyozellus multiplex*, a Korean wild mushroom, as a potent chemopreventive agent against stomach cancer.  
Life Sci. 2003 Nov 7; 73(25): 3225-34.
  - Arai K, Nakano H, Shibutani M, Naoi M, Matsuda H.  
Expression of class II beta-tubulin by proliferative myoepithelial cells in canine mammary mixed tumors.  
Vet Pathol. 2003 Nov; 40(6): 670-6.
  - Ueda M, Niho N, Imai T, Shibutani M, Mitsumori K, Matsui T, Hirose M.  
Lack of significant effects of genistein on the progression of 7,12-dimethylbenz(a)anthracene-induced mammary tumors in ovariectomized Sprague-Dawley rats.

Nutr Cancer. 2003; 47(2): 141-7.

【2004年】

- Takizawa T, Mitsumori K, Takagi H, Nasu M, Yasuhara K, Onodera H, Imai T, Hirose M.  
Sequential analysis of testicular lesions and serum hormone levels in rats treated with a *Psoralea corylifolia* extract.  
Food Chem Toxicol. 2004 Jan; 42(1): 1-7.
- Masutomi N, Shibutani M, Takagi H, Uneyama C, Hirose M.  
Dietary influence on the impact of ethinylestradiol-induced alterations in the endocrine/reproductive system with perinatal maternal exposure.  
Reprod Toxicol. 2004 Jan-Feb; 18(1): 23-33.
- Takagi H, Shibutani M, Masutomi N, Uneyama C, Takahashi N, Mitsumori K, Hirose M.  
Lack of maternal dietary exposure effects of bisphenol A and nonylphenol during the critical period for brain sexual differentiation on the reproductive/endocrine systems in later life.  
Arch Toxicol. 2004 Feb; 78(2): 97-105.
- Imai T, Onose J, Hasumura M, Ueda M, Takizawa T, Hirose M.  
Sequential analysis of development of invasive thyroid follicular cell carcinomas in inflamed capsular regions of rats treated with sulfadimethoxine after N-bis(2-hydroxypropyl)nitrosamine-initiation.  
Toxicol Pathol. 2004 Mar-Apr; 32(2): 229-36.
- Orita S, Hirose M, Takahashi S, Imaida K, Ito N, Shudo K, Ohigashi H, Murakami A, Shirai T.  
Modifying effects of 1'-acetoxychavicol acetate(ACA) and the novel synthetic retinoids Re-80, Am-580 and Am-55P in a two-stage carcinogenesis model in female rats.  
Toxicol Pathol. 2004 Mar-Apr; 32(2): 250-7.
- Hasumura M, Yasuhara K, Tamura T, Imai T, Mitsumori K, Hirose M.  
Evaluation of the toxicity of enzymatically decomposed rutin with 13-weeks dietary administration to Wistar rats.  
Food Chem Toxicol. 2004 Mar; 42(3): 439-44.
- Lee KY, Shibutani M, Takagi H, Arimura T, Takigami S, Uneyama C, Kato N, Hirose

M.

Subchronic toxicity study of dietary N-acetylglucosamine in F344 rats.

Food Chem Toxicol. 2004 Apr; 42(4): 687-95.

- Masutomi N, Shibutani M, Takagi H, Uneyama C, Lee KY, Hirose M.  
Alteration of pituitary hormone-immunoreactive cell populations in rat offspring after maternal dietary exposure to endocrine-active chemicals.  
Arch Toxicol. 2004 Apr; 78(4): 232-40.
- Umemura T, Kitamura Y, Kanki K, Maruyama S, Okazaki K, Imazawa T, Nishimura T, Hasegawa R, Nishikawa A, Hirose M.  
Dose-related changes of oxidative stress and cell proliferation in kidneys of male and female F344 rats exposed to potassium bromate.  
Cancer Sci. 2004 May; 95(5): 393-8.
- Nishikawa A, Furukawa F, Lee IS, Tanaka T, Hirose M.  
Potent chemopreventive agents against pancreatic cancer.  
Curr Cancer Drug Targets. 2004 Jun; 4(4): 373-84.
- Fukushima S, Wanibuchi H, Morimura K, Iwai S, Nakae D, Konishi Y, Tsuda H, Takasuka N, Imaida K, Shirai T, Tatematsu M, Tsukamoto T, Hirose M, Furukawa F.  
Lack of initiation activity in rat liver of low doses of 2-amino-3,8-dimethylimidazo[4,5-f]quinoxaline.  
Cancer Lett. 2003; 191: 35-40.
- Fukushima S, Wanibuchi H, Morimura K, Iwai S, Nakae D, Kishida H, Tsuda H, Uehara N, Imaida K, Shirai T, Tatematsu 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. 2004 Jul; 80(1): 109-14.
- Takagi H, Shibutani M, Lee KY, Lee HC, Nishihara M, Uneyama C, Takigami S, Mitsumori K, Hirose M.  
Lack of modifying effects of genistein on disruption of the reproductive system by perinatal dietary exposure to ethinylestradiol in rats.  
Reprod Toxicol. 2004 Sep-Oct; 18(5): 687-700.
- Kato N, Shibutani M, Takagi H, Uneyama C, Lee KY, Takigami S, Mashima K, Hirose M.

Gene expression profile in the livers of rats orally administered ethinylestradiol for 28 days using a microarray technique.

Toxicology. 2004 Aug 5; 200(2-3): 179-92.

- Takagi H, Shibutani M, Kato N, Fujita H, Lee KY, Takigami S, Mitsumori K, Hirose M. Microdissected region-specific gene expression analysis with methacarn-fixed, paraffin-embedded tissues by real-time RT-PCR. J Histochem Cytochem. 2004 Jul; 52(7): 903-13.
- Takizawa T, Imai T, Onose JI, Ueda M, Tamura T, Mitsumori K, Izumi K, Hirose M. Enhancement of hepatocarcinogenesis by kojic acid in rat two-stage models after initiation with N-bis(2-hydroxypropyl)nitrosamine or N-diethylnitrosamine. Toxicol Sci. 2004 Sep; 81(1): 43-49.
- Nishikawa A, Mori Y, Lee IS, Tanaka T, Hirose M. Cigarette smoking, metabolic activation and carcinogenesis. Curr Drug Metab. 2004 Oct; 5(5): 363-73.
- Lee KY, Shibutani M, Takagi H, Kato N, Takigami S, Uneyama C, Hirose M. Diverse developmental toxicity of di-n-butyl phthalate in both sexes of rat offspring after maternal exposure during the period from late gestation through lactation. Toxicology. 2004 Oct 15; 203(1-3): 221-38.
- Hirose A, Hasegawa R, Nishikawa A, Takahashi M, Ema M. Revision and establishment of Japanese drinking water quality guidelines for di(2-ethylhexyl) phthalate, toluene and vinyl chloride -- differences from the latest WHO guideline drafts. J Toxicol Sci. 2004 Dec; 29(5): 535-9.
- Shibutani M, Uneyama C. Methacarn fixation for genomic DNA analysis in microdissected cells. Methods in Molecular Biology. 2004 Dec; 293: 11-25.
- Mitsumori K, Moto M, Imazawa T. Ultrastructural morphology of motor endplate neurotoxicities in rats. J Toxicol Pathol. 2004; 17: 85-94.

#### 【2005 年】

- 西川秋佳, 森幸雄  
喫煙とヘテロサイクリックアミン

THE LUNG perspectives. 2005 13(1); 58-61.

- Kanki K, Nishikawa A, Masumura K, Umemura T, Imazawa T, Kitamura Y, Nohmi T, Hirose M.  
In vivo mutational analysis of liver DNA in *gpt* delta transgenic rats treated with the hepatocarcinogens N-nitrosopyrrolidine, 2-amino-3-methylimidazo[4,5-*f*]quinoline, and di(2-ethylhexyl)phthalate.  
Mol Carcinog. 2005 Jan; 42(1): 9-17.
- Ueda M, Imai T, Takizawa T, Onodera H, Mitsumori K, Matsui T, Hirose M.  
Possible enhancing effects of atrazine on growth of 7,12-dimethylbenz(a) anthracene-induced mammary tumors in ovariectomized Sprague-Dawley rats.  
Cancer Sci. 2005 Jan; 96(1): 19-25.
- Imai T, Hasumura M, Onose J, Ueda M, Takizawa T, Cho YM, Hirose M.  
Development of invasive follicular cell carcinomas in a rat thyroid carcinogenesis model: biological impact of capsular inflammation and reduced cyclooxygenase-2 expression.  
Cancer Sci. 2005 Jan; 96(1): 31-7.
- Shibutani M, Masutomi N, Uneyama C, Abe N, Takagi H, Lee KY, Hirose M.  
Down-regulation of GAT-1 mRNA expression in the microdissected hypothalamic medial preoptic area of rat offspring exposed maternally to ethinylestradiol.  
Toxicology. 2005 Mar 1; 208(1): 35-48.
- Takagi H, Shibutani M, Uneyama C, Lee KY, Kato N, Inoue K, Hirose M.  
Limited tumor-initiating activity of phenylethyl isothiocyanate by promotion with sodium l-ascorbate in a rat two-stage urinary bladder carcinogenesis model.  
Cancer Lett. 2005 Mar 10; 219(2): 147-53.
- Nishikawa A, Imazawa T, Kuroiwa Y, Kitamura Y, Kanki K, Ishii Y, Umemura T, Hirose M.  
Induction of colon tumors in C57BL/6J mice fed MeIQx, IQ, or PhIP followed by dextran sulfate sodium treatment.  
Toxicol Sci. 2005 Apr; 84(2): 243-8.
- Yamazaki M, Moto M, Takizawa T, Kashida Y, Imai T, Mitsumori K, Hirose M.  
Tumorigenic susceptibility of catechol on the gastric mucosa in rasH2 mice.  
J Toxicol Pathol. 2005; 18(1): 1-5.

- Cho YM, Imai T, Hasumura M, Onose J, Ueda M, Hirose M.  
Lack of prepubertal administration of ethinyl estradiol on susceptibility to multiple organ carcinogenesis in rats exposed to 7,12-dimethylbenz[a]anthracene and N-bis(2-hydroxypropyl)nitrosamine during adolescence.  
Cancer Lett. 2005 Jun 1; 223(1): 37-46.
- Kuroiwa Y, Nishikawa A, Imazawa T, Kanki K, Kitamura Y, Umemura T, Hirose M.  
Lack of subchronic toxicity of an aqueous extract of *Agaricus blazei* Murrill in F344 rats.  
Food Chem Toxicol. 2005 Jul; 43(7): 1047-53.
- Fukushima S, Wanibuchi H, Morimura K, Nakae D, Tsuda H, Imaida K, Shirai T, Tatematsu M, Tsukamoto T, Hirose M, Furukawa F.  
Lack of potential of low dose N-nitrosodimethylamine to induce preneoplastic lesions, glutathione S-transferase placental form-positive foci, in rat liver.  
Cancer Lett. 2005 May 10; 222(1): 11-5.
- Hasumura M, Imai T, Takizawa T, Ueda M, Onose J, Hirose M.  
Promotion of thyroid carcinogenesis by para-aminobenzoic acid in rats initiated with N-bis(2-hydroxypropyl)nitrosamine.  
Toxicol Sci. 2005 Apr; 86(1): 61-7.
- Matsuo S, Okamura M, Takizawa T, Imai T, Mitsumori K, Hirose M.  
Lack of modifying effects of combined treatment of t-butylhydroquinone and sodium nitrite on forestomach carcinogenesis in rasH2 mice initiated with N-ethyl-N-nitrosourea.  
J Toxicol Pathol. 2005; 18(2): 111-6.
- Yoon B-I, Kaneko T, Hirabayashi Y, Imazawa T, Nishikawa A, Kodama Y, Kanno J, Yodoi J, Han J-H, Hirose M, Inoue T.  
Electron microscopical evidence of the protective function of thioredoxin (TRX/ADF) transgene against 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-induced cellular toxicity in the liver and brain.  
J Toxicol Pathol. 2005; 18(1): 41-46.
- Nishikawa A, Ikeda T, Son HY, Okazaki K, Imazawa T, Umemura T, Kimura S, Hirose M.  
Pronounced synergistic promotion of N-bis(2-hydroxypropyl)nitrosamine-initiated

thyroid tumorigenesis in rats treated with excess soybean and iodine-deficient diets.  
Toxicol Sci. 2005 Aug; 86(2): 258-63.

- Kuroiwa Y, Nishikawa A, Imazawa T, Kitamura Y, Kanki K, Umemura T, Hirose M.  
Lack of carcinogenicity of d-xylose given in the diet to F344 rats for two years.  
Food Chem Toxicol. 2005 Sep; 43(9): 1399-404.
- Kitamura Y, Nishikawa A, Nakamura H, Furukawa F, Imazawa T, Umemura T, Uchida K, Hirose M.  
Effects of N-acetylcysteine, quercetin, and phytic acid on spontaneous hepatic and renal lesions in LEC rats.  
Toxicol Pathol. 2005; 33(5): 584-92.
- Nishikawa A, Furukawa F, Kitamura T, Kanki K, Ishii Y, Kuroiwa T, Umemura T, Hirose M.  
A new medium-term pancreatic carcinogenesis model in hamsters and screening of chemopreventive agents.  
In: Carcinogenesis and Modification of Carcinogenesis. Eds. Tanaka T, Tsuda H, Research Signpost, Kerala 2005: p. 97-108.
- Imai T.  
Chemically induced thyroid follicular carcinogenesis and related immunohistochemical markers in rats.  
In: Carcinogenesis and Modification of Carcinogenesis. Eds. Tanaka T, Tsuda H, Research Signpost, Kerala 2005: p. 109-27.
- Takagi H, Shibutani M, Lee KY, Masutomi N, Fujita H, Inoue K, Mitsumori K, Hirose M.  
Impact of maternal dietary exposure to endocrine-acting chemicals on progesterone receptor expression in microdissected hypothalamic medial preoptic areas of rat offspring.  
Toxicol Appl Pharmacol. 2005 Oct 15; 208(2): 127-36.
- Lee KY, Shibutani M, Kuroiwa K, Takagi H, Inoue K, Nishikawa H, Miki T, Hirose M.  
Chemoprevention of acrylamide toxicity by antioxidative agents in rats-effective suppression of testicular toxicity by phenylethyl isothiocyanate.  
Arch Toxicol. 2005 Sep; 79(9): 531-41.
- Imai T, Cho YM, Hasumura M, Hirose M.

Enhancement by acrylamide of N-methyl-N-nitrosourea-induced rat mammary tumor development-possible application for a model to detect co-modifiers of carcinogenesis. *Cancer Lett.* 2005 Dec 8; 230(1): 25-32.

【2006年】

- Kuroiwa Y, Nishikawa A, Imazawa T, Kitamura Y, Kanki K, Ishii Y, Umemura T, Hirose M.  
A subchronic toxicity study of dunaliella carotene in F344 rats.  
*Food Chem Toxicol.* 2006 Jan; 44(1): 138-45.
- Umemura T, Kodama Y, Nishikawa A, Hioki K, Nomura T, Kanki K, Kuroiwa Y, Ishii Y, Kurokawa Y, Hirose M.  
Nine-week detection of six genotoxic lung carcinogens using the rasH2/BHT mouse model.  
*Cancer Lett.* 2006 Jan 18; 231(2): 314-8.
- Takizawa T, Imai T, Ueda M, Onodera H, Hirose M.  
Comparison of enhancing effects of different goitrogen treatments in combination with beta-estradiol-3-benzoate for establishing a rat two-stage thyroid carcinogenesis model to detect modifying effects of estrogenic compounds.  
*Cancer Sci.* 2006 Jan; 97(1): 25-31.
- Ota Y, Hasumura M, Okamura M, Takahashi A, Ueda M, Onodera H, Imai T, Mitsumori K, Hirose M.  
Chronic toxicity and carcinogenicity of dietary administered ammonium sulfate in F344 rats.  
*Food Chem Toxicol.* 2006 Jan; 44(1): 17-27.
- Nishikawa A, Sai K, Okazaki K, Son HY, Kanki K, Nakajima M, Kinoshita N, Nohmi T, Trosko JE, Inoue T, Hirose M.  
MX, a by-product of water chlorination, lacks in vivo genotoxicity in *gpt* delta mice but inhibits gap junctional intercellular communication in rat WB cells.  
*Environ Mol Mutagen.* 2006 Jan; 47(1): 48-55.
- Onose JI, Imai T, Hasumura M, Cho YM, Hirose M.  
A new medium-term rat colon bioassay applying neoplastic lesions as endpoints for detection of carcinogenesis modifiers-validation with known modifiers.  
*Cancer Lett.* 2006 Feb 8; 232(2): 272-278.

- Kitamura Y, Yamagishi M, Okazaki K, Umemura T, Imazawa T, Nishikawa A, Matsumoto W, Hirose M.  
Lack of chemopreventive effects of alpha-eleostearic acid on 7,12-dimethylbenz[a]anthracene (DMBA) and 1,2-dimethylhydrazine (DMH)-induced mammary and colon carcinogenesis in female Sprague-Dawley rats.  
*Food Chem Toxicol.* 2006 Feb; 44(2): 271-7.
- Umemura T, Kuroiwa Y, Kitamura Y, Ishii Y, Kanki K, Kodama Y, Itoh K, Yamamoto M, Nishikawa A, Hirose M.  
A crucial role of Nrf2 in in vivo defense against oxidative damage by an environmental pollutant, pentachlorophenol.  
*Toxicol Sci.* 2006 Mar; 90(1): 111-9.
- Okazaki K, Ishii Y, Kitamura Y, Maruyama S, Umemura T, Miyauchi M, Yamagishi M, Imazawa T, Nishikawa A, Yoshimura Y, Nakazawa H, Hirose M.  
Dose-dependent promotion of rat forestomach carcinogenesis by combined treatment with sodium nitrite and ascorbic acid after initiation with N-methyl-N'-nitro-N-nitrosoguanidine: possible contribution of nitric oxide-associated oxidative DNA damage.  
*Cancer Sci.* 2006 Mar; 97(3): 175-82.
- Ishii Y, Umemura T, Kanki K, Kuroiwa Y, Nishikawa A, Ito R, Saito K, Nakazawa H, Hirose M.  
Possible involvement of NO-mediated oxidative stress in induction of rat forestomach damage and cell proliferation by combined treatment with catechol and sodium nitrite.  
*Arch Biochem Biophys.* 2006 Mar 15; 447(2): 127-35.
- Lee KY, Shibutani M, Inoue K, Kuroiwa K, U M, Woo GH, Hirose M.  
Methacarn fixation-effects of tissue processing and storage conditions on detection of mRNAs and proteins in paraffin-embedded tissues.  
*Anal Biochem.* 2006 Apr 1; 351(1): 36-43.
- Fujimoto H, Shibutani M, Kuroiwa K, Inoue K, Woo GH, U M, Hirose M.  
A case report of a spontaneous gastrointestinal stromal tumor (GIST) occurring in a F344 rat.  
*Toxicol Pathol.* 2006; 34(2): 164-7.
- Kitamura Y, Umemura T, Kanki K, Ishii Y, Kuroiwa Y, Masegi T, Nishikawa A, Hirose

M.

Lung as a new target in rats of 2-amino-3-methylimidazo[4,5-*f*]quinoline carcinogenesis: Results of a two-stage model initiated with N-bis(2-hydroxypropyl)nitrosamine.

Cancer Sci. 2006 May; 97(5): 368-73.

- Kitamura Y, Umemura T, Okazaki K, Kanki K, Imazawa T, Masegi T, Nishikawa A, Hirose M.  
Enhancing effects of simultaneous treatment with sodium nitrite on 2-amino-3-methylimidazo[4,5-*f*]quinoline-induced rat liver, colon and Zymbal's gland carcinogenesis after initiation with diethylnitrosamine and 1,2-dimethylhydrazine.  
Int J Cancer. 2006 May 15; 118(10): 2399-404.
- Umemura T, Kurokawa Y.  
Etiology of bromate-induced cancer and possible modes of action-studies in Japan.  
Toxicology. 2006 Apr 17; 221(2-3): 154-7.
- Imai T, Onose J, Hasumura M, Takizawa T, Hirose M.  
Indomethacin induces small intestinal damage and inhibits amitrole-associated thyroid carcinogenesis in rats initiated with N-bis(2-hydroxypropyl)nitrosamine.  
Toxicol Lett. 2006 Jun 20; 164(1): 71-80.
- Tamura T, Mitsumori K, Totsuka Y, Wakabayashi K, Kido R, Kasai H, Nasu M, Hirose M.  
Absence of in vivo genotoxic potential and tumor initiation activity of kojic acid in the rat thyroid.  
Toxicology. 2006 May 15; 222(3): 213-24.
- Kitamura Y, Yamagishi M, Okazaki K, Furukawa F, Imazawa T, Nishikawa A, Hirose M.  
Lack of enhancing effects of sodium nitrite on 2-amino-1-methyl-6-phenylimidazo[4,5-*b*]pyridine (PhIP)-induced mammary carcinogenesis in female Sprague-Dawley rats.  
Cancer Lett. 2006 Apr 8; 235(1): 69-74.
- Cho YM, Onodera H, Ueda M, Imai T, Hirose M.  
A 13-week subchronic toxicity study of dietary administered morin in F344 rats.  
Food Chem Toxicol. 2006 Jun; 44(6): 891-7.
- Kuroiwa K, Shibutani M, Inoue K, Lee KY, Woo GH, Hirose M.

Subchronic toxicity study of water pepper extract in F344 rats.

Food Chem Toxicol. 2006 Aug; 44(8): 1236-44.

- Nishikawa A.  
Modification of experimental carcinogenesis by cigarette smoke and its constituents.  
In: Alcohol, Tobacco and Cancer. Eds. Cho CH, Purohit V,  
Karger, Basel, 2006: p. 237-252.
- Umemura T, Kanki K, Kuroiwa Y, Ishii Y, Okano K, Nohmi T, Nishikawa A, Hirose M.  
In vivo mutagenicity and initiation following oxidative DNA lesion in the kidneys of  
rats given potassium bromate.  
Cancer Sci. 2006 Sep; 97(9): 829-35.
- Cho YM, Imai T, Hasumura M, Hirose M.  
Lack of enhancement of susceptibility to mammary and thyroid carcinogenesis in rats  
exposed to DMBA and DHPN following prepubertal iodine deficiency.  
Cancer Sci. 2006 Oct; 97(10): 1031-6.
- Kuroiwa Y, Nishikawa A, Kitamura Y, Kanki K, Ishii Y, Umemura T, Hirose M.  
Protective effects of benzyl isothiocyanate and sulforaphane but not resveratrol against  
initiation of pancreatic carcinogenesis in hamsters.  
Cancer Lett. 2006 Sep 28; 241(2): 275-80.
- Moto M, Umemura T, Okamura M, Muguruma M, Ito T, Jin M, Kashida Y, Mitsumori  
K.  
Possible involvement of oxidative stress in dicyclanil-induced hepatocarcinogenesis in  
mice.  
Arch Toxicol. 2006 Oct; 80(10): 694-702.
- Nishikawa A.  
Environmental factors synergistically interacting with iodine deficiency on thyroid  
carcinogenesis.  
Trends in Cancer Research. 2006; 2: 119-125.
- 西川秋佳  
食品中の発がん物質  
日本がん予防研究会 News Letter. 2006 Dec; 50: 10-1
- 西川秋佳

タバコ煙とその成分による実験発がんの修飾

喫煙科学 Smoking Science. 2006 Dec; 21(3): 6-7.

【2007年】

- Kitamura Y, Umemura T, Kanki K, Kodama Y, Kitamoto S, Saito K, Itoh K, Yamamoto M, Masegi T, Nishikawa A, Hirose M.  
Increased susceptibility to hepatocarcinogenicity of Nrf2-deficient mice exposed to 2-amino-3-methylimidazo[4,5-*f*]quinoline.  
Cancer Sci. 2007 Jan; 98(1): 19-24.
- Shibutani M, Lee KY, Igarashi K, Woo GH, Inoue K, Nishimura T, Hirose M.  
Hypothalamus region-specific global gene expression profiling in early stages of central endocrine disruption in rat neonates injected with estradiol benzoate or flutamide.  
Dev Neurobiol. 2007 Feb 15; 67(3): 253-69.
- Kuroiwa Y, Umemura T, Nishikawa A, Kanki K, Ishii Y, Kodama Y, Masumura K, Nohmi T, Hirose M.  
Lack of in vivo mutagenicity and oxidative DNA damage by flumequine in the livers of *gpt* delta mice.  
Arch Toxicol. 2007 Jan; 81(1): 63-9.
- Imai T, Hasumura M, Cho YM, Onose J, Hirose M.  
Depression of T cell-mediated immunity reduces sulfadimethoxine-induced capsular inflammation and inhibits associated development of invasive thyroid follicular cell carcinomas in rats.  
Cancer Sci. 2007 Mar; 98(3): 294-8.
- Woo GH, Shibutani M, Ichiki T, Hamamura M, Lee KY, Inoue K, Hirose M.  
A repeated 28-day oral dose toxicity study of nonylphenol in rats, based on the 'Enhanced OECD Test Guideline 407' for screening of endocrine-disrupting chemicals.  
Arch Toxicol. 2007 Feb; 81(2): 77-88.
- Imazawa T, Nishikawa A, Miyauchi M, Okazaki K, Takahashi S, Umemura T, Hirose M.  
DNA adduct formation, nucleolar segregation and cell proliferation in rats treated with 2-amino-1-methyl-6-phenylimidazo[4,5-*b*]pyridine.  
J Toxicol Pathol. 2007; 20 (1): 39-47.
- Hasumura M, Ueda M, Onose J, Imai T, Hirose M.

Lack of a significant effect of arctiin on development of 7,12-dimethylbenz(a)anthracene-induced mammary tumors in ovariectomized Sprague-Dawley Rats.

Nutr Cancer. 2007; 57(2): 201-8.

- Umemura T, Kuroiwa Y, Tasaki M, Okamura T, Ishii Y, Kodama Y, Nohmi T, Mitsumori K, Nishikawa A, Hirose M.  
Detection of oxidative DNA damage, cell proliferation and in vivo mutagenicity induced by dicyclanil, a non-genotoxic carcinogen, using *gpt* delta mice.  
Mutat Res. 2007 Sep 1; 633(1): 46-54.
- Woo GH, Shibutani M, Kuroiwa K, Lee KY, Takahashi M, Inoue K, Fujimoto H, Hirose M.  
Lack of preventive effects of dietary fibers or chlorophyllin against acrylamide toxicity in rats.  
Food Chem Toxicol. 2007 Aug; 45(8): 1507-15.
- 今井俊夫, 曹永晩, 高見成昭, 広瀬雅雄  
毒性病理学の最近の話題 甲状腺毒性—化学物質と放射線—  
病理と臨床 2007; 25(8): 793-8.
- Nishikawa A, Nakamura H, Lee I-S, Furukawa F, Murakami A, Ohigashi H, Umemura T, Hirose M.  
Chemopreventive effects of 1'-acetoxychavicol acetate and auraptene on stomach carcinogenesis in rats initiated with N-methyl-N'-nitro-N-nitrosoguanidine.  
Disease Progression and Chemoprevention. 2007: 267-76.
- Furukawa F, Nishikawa A, Abe A, Hirose M  
Inhibitory effects of octreotide acetate, a somatostatin analog, on spontaneous chronic pancreatitis in WBN/Kob rats.  
J Toxicol Pathol. 2007; 20: 71-5.
- 高橋道人, 吉田緑  
精巣毒性と卵巣毒性  
病理と臨床 2007; 25(8): 786-92
- 西川秋佳  
食品添加物の安全性と評価

Safety of food additives and its evaluation.

Foods & Food Ingredients Journal of Japan. 2007; 212(10): 807-14.

- Imai T, Fukuta K, Hasumura M, Cho YM, Ota Y, Takami S, Nakagama H, Hirose M.  
Significance of inflammation-associated regenerative mucosa characterized by Paneth cell metaplasia and beta-catenin accumulation for the onset of colorectal carcinogenesis in rats initiated with 1,2-dimethylhydrazine.  
Carcinogenesis. 2007 Oct; 28(10): 2199-206.
- Kuroiwa Y, Ishii Y, Umemura T, Kanki K, Mitsumori K, Nishikawa A, Nakazawa H, Hirose M.  
Combined treatment with green tea catechins and sodium nitrite selectively promotes rat forestomach carcinogenesis after initiation with N-methyl-N'-nitro-N-nitrosoguanidine.  
Cancer Sci. 2007 Jul; 98(7): 949-57.  
**【2008年】**
- Nishimura J, Dewa Y, Okamura T, Jin M, Saegusa Y, Kawai M, Umemura T, Shibutani M, Mitsumori K.  
Role of Nrf2 and oxidative stress on fenofibrate-induced hepatocarcinogenesis in rats.  
Toxicol Sci. 2008 Dec; 106(2): 339-49.
- Kuroiwa Y, Yamada M, Matsui K, Okamura T, Ishii Y, Masumura K, Tasaki M, Umemura T, Mitsumori K, Nohmi T, Hirose M, Nishikawa A.  
Combined ascorbic acid and sodium nitrite treatment induces oxidative DNA damage-associated mutagenicity in vitro, but lacks initiation activity in rat forestomach epithelium.  
Toxicol Sci. 2008; 104(2): 274-82.
- Takahashi M, Shibutani M, Woo GH, Inoue K, Fujimoto H, Igarashi K, Kanno J, Hirose M, Nishikawa A.  
Cellular distributions of molecules with altered expression specific to the tumor promotion process from the early stage in a rat two-stage hepatocarcinogenesis model.  
Carcinogenesis. 2008; 29(11): 2218-26.
- Nishikawa A, Umemura T, Ishii Y, Tasaki M, Okamura T, Inoue T, Masumura K, Nohmi T.  
In vivo approaches to study mechanism of action of genotoxic carcinogens.

- Gene Environ. 2008; 30(4): 120-4.
- Nakamura Y, Matsuo T, Okamoto S, Nishikawa A, Imai T, Park EY, Sato K.  
Antimutagenic and anticarcinogenic properties of Kyo-yasai, heirloom vegetables in Kyoto.  
Gene Environ. 2008; 30(2): 41-7.
  - Inoue K, Shibutani M, Masutomi N, Toyoda K, Takagi H, Takahashi M, Fujimoto H, Hirose M, Nishikawa A.  
One-year chronic toxicity of madder color in F344 rats - Induction of preneoplastic/neoplastic lesions in the kidney and liver.  
Food Chem Toxicol. 2008; 46(10): 3303-10.
  - Umemura T, Maeda M, Kijima A, Ishii Y, Tasaki M, Okamura T, Inoue T, Hirose M, Nishikawa A.  
Lack of promotion activity of diacylglycerol oil on 4-nitroquinoline 1-oxide induced carcinogenesis in the oral cavity of SD rats.  
Food Chem Toxicol. 2008; 46(9): 3206-12.
  - Inoue T, Umemura T, Maeda M, Ishii Y, Okamura T, Tasaki M, Nishikawa A.  
Safety assessment of dietary administered paprika color in combined chronic toxicity and carcinogenicity studies using F344 rats.  
Food Chem Toxicol. 2008; 46(8): 2689-93.
  - Takami S, Imai T, Hasumura M, Cho YM, Onose J, Hirose M.  
Evaluation of toxicity of green tea catechins with 90-day dietary administration to F344 rats.  
Food Chem Toxicol. 2008; 46: 2224-9.
  - Onose J, Imai T, Hasumura M, Ueda M, Ozeki Y, Hirose M.  
Evaluation of subchronic toxicity of dietary administered Cry1Ab protein from *Bacillus thuringiensis* var. *Kurstaki* HD-1 in F344 male rats with chemically induced gastrointestinal impairment.  
Food Chem Toxicol. 2008; 46(6): 2184-9.
  - Tasaki M, Umemura T, Maeda M, Ishii Y, Okamura T, Inoue T, Kuroiwa Y, Hirose M, Nishikawa A.  
Safety assessment of ellagic acid, a food additive, in a subchronic toxicity study using F344 rats.

- Food Chem Toxicol. 2008; 46(3): 1119-24.
- Inoue K, Shibutani M, Masutomi N, Toyoda K, Takagi H, Uneyama C, Nishikawa A, Hirose M.  
A 13-week subchronic toxicity study of madder color in F344 rats.  
Food Chem Toxicol. 2008; 46(1): 241-52.
  - Takahashi M, Shibutani M, Sugita-Konishi Y, Aihara M, Inoue K, Woo GH, Fujimoto H, Hirose M.  
A 90-day subchronic toxicity study of nivalenol, a trichothecene mycotoxin, in F344 rats.  
Food Chem Toxicol. 2008; 46(1): 125-35.
  - Tasaki M, Umemura T, Inoue T, Okamura T, Kuroiwa Y, Ishii Y, Maeda M, Hirose M, Nishikawa A.  
Induction of characteristic hepatocyte proliferative lesion with dietary exposure of Wistar Hannover rats to tocotrienol for 1 year.  
Toxicology. 2008; 250(2-3): 143-50.
  - Dewa Y, Nishimura J, Muguruma M, Jin M, Saegusa Y, Okamura T, Tasaki M, Umemura T, Mitsumori K.  
 $\beta$ -Naphthoflavone enhances oxidative stress responses and the induction of preneoplastic lesions in a diethylnitrosamine-initiated hepatocarcinogenesis model in partially hepatectomized rats.  
Toxicology. 2008; 244(2-3): 179-89.
  - Cho YM, Imai T, Ota Y, Hasumura M, Takami S, Hirose M, Nishikawa A.  
A new medium-term rat colorectal bioassay applying neoplastic lesions as end points for detection of carcinogenesis modifiers effects with weak or controversial modifiers.  
Toxicol Pathol. 2008; 36(3): 459-64.
  - Kanki K, Umemura T, Kitamura Y, Ishii Y, Kuroiwa Y, Kodama Y, Itoh K, Yamamoto M, Nishikawa A, Hirose M.  
A possible role of Nrf2 in prevention of renal oxidative damage by ferric nitrilotriacetate.  
Toxicol Pathol. 2008; 36(2): 353-61.
  - 今井俊夫  
化学物質誘発性の炎症関連ラット大腸発がんモデルの病理学的解析

- 日本がん予防学会 News Letter, 2008; 50: 4-5.
- 西川秋佳  
ダイコンの辛味成分による腓発がんの抑制効果  
日本がん予防学会 News Letter, 2008; 56: 2-3.
  - 西川秋佳  
安全性試験における GLP の現状  
Histo-Logic Japan. 2008; 36(2): 18-21.
  - Nishimura J, Dewa Y, Okamura T, Muguruma M, Jin M, Saegusa Y, Umemura T, Mitsumori K.  
Possible involvement of oxidative stress in fenofibrate-induced hepatocarcinogenesis in rats.  
Arch Toxicol. 2008; 82(9): 641-54.
  - Nakamura Y, Nakamura K, Asai Y, Wada T, Tanaka K, Matsuo T, Okamoto S, Meijer J, Kitamura Y, Nishikawa A, Park EY, Sato K, Ohtsuki K.  
Comparison of the glucosinolate-myrosinase systems among daikon (*Raphanus sativus*, Japanese white radish) varieties.  
J Agric Food Chem. 2008; 56(8): 2702-7.
  - Takahashi M, Shibutani M, Inoue K, Fujimoto H, Hirose M, Nishikawa A.  
Pathological assessment of the nervous and male reproductive systems of rat offspring exposed maternally to acrylamide during the gestation and lactation periods - a preliminary study.  
J Toxicol Sci. 2008; 33(1): 11-24.
  - Kuroiwa Y, Okamura T, Ishii Y, Umemura T, Tasaki M, Kanki K, Mitsumori K, Hirose M, Nishikawa A.  
Enhancement of esophageal carcinogenesis in acid reflux model rats treated with ascorbic acid and sodium nitrite in combination with or without initiation.  
Cancer Sci. 2008; 99(1): 7-13.
- 【2009年】
- Inoue K, Yoshida M, Takahashi M, Fujimoto H, Shibutani M, Hirose M, Nishikawa A.  
Carcinogenic potential of alizarin and rubiadin, components of madder color, in a rat medium-term multi-organ bioassay.

- Cancer Sci. 2009; 100(12): 2261-7.
- Imai T, Hasumura M, Cho YM, Ota Y, Takami S, Hirose M, Nishikawa A.  
Inhibitory effects of aminoguanidine on thyroid follicular carcinoma development in inflamed capsular regions of rats treated with sulfadimethoxine after N-bis(2-hydroxypropyl)nitrosamine-initiation.  
Cancer Sci. 2009; 100(10): 1794-800.
  - Woo GH, Takahashi M, Inoue K, Fujimoto H, Igarashi K, Kanno J, Hirose M, Nishikawa A, Shibutani M.  
Cellular distributions of molecules with altered expression specific to thyroid proliferative lesions developing in a rat thyroid carcinogenesis model.  
Cancer Sci. 2009; 100(4): 617-25.
  - Saegusa Y, Fujimoto H, Woo GH, Inoue K, Takahashi M, Mitsumori K, Hirose M, Nishikawa A, Shibutani M.  
Developmental toxicity of brominated flame retardants, tetrabromobisphenol A and 1,2,5,6,9,10-hexabromocyclododecane, in rat offspring after maternal exposure from mid-gestation through lactation.  
Reprod Toxicol. 2009; 28(4): 456-67.
  - Shibutani M, Woo GH, Fujimoto H, Saegusa Y, Takahashi M, Inoue K, Hirose M, Nishikawa A.  
Assessment of developmental effects of hypothyroidism in rats from in utero and lactation exposure to anti-thyroid agents.  
Reprod Toxicol. 2009; 28(3): 297-307.
  - Tasaki M, Umemura T, Kijima A, Inoue T, Okamura T, Kuroiwa Y, Ishii Y, Nishikawa A.  
Simultaneous induction of non-neoplastic and neoplastic lesions with highly proliferative hepatocytes following dietary exposure of rats to tocotrienol for 2 years.  
Arch Toxicol. 2009; 83(11): 1021-30.
  - Takahashi M, Shibutani M, Nakahigashi J, Sakaguchi N, Inoue K, Morikawa T, Yoshida M, Nishikawa A.  
Limited lactational transfer of acrylamide to rat offspring on maternal oral administration during the gestation and lactation periods.  
Arch Toxicol. 2009; 83(8): 785-93.

- Dewa Y, Nishimura J, Muguruma M, Jin M, Kawai M, Saegusa Y, Okamura T, Umemura T, Mitsumori K.  
Involvement of oxidative stress in hepatocellular tumor-promoting activity of oxfendazole in rats.  
Arch Toxicol. 2009; 83(5): 503-11.
- Totsuka Y, Higuchi T, Imai T, Nishikawa A, Nohmi T, Kato T, Masuda S, Kinae N, Hiyoshi K, Ogo S, Kawanishi M, Yagi T, Ichinose T, Fukumori N, Watanabe M, Sugimura T, Wakabayashi K.  
Genotoxicity of nano/microparticles in in vitro micronuclei, in vivo comet and mutation assay systems.  
Part Fibre Toxicol. 2009; 6: 23.
- Inoue K, Yoshida M, Takahashi M, Cho YM, Takami S, Nishikawa A.  
Rhabdomyosarcoma in the abdominal cavity of a 12-month-old female Donryu rat.  
J Toxicol Pathol. 2009; 22(3): 195-8.
- Takahashi M, Yoshida M, Inoue K, Morikawa T, Nishikawa A.  
A ninety-day toxicity study of semicarbazide hydrochloride in Wistar Hannover GALAS rats.  
Food Chem Toxicol. 2009; 47(10): 2490-8.
- Cho YM, Imai T, Ito Y, Takami S, Hasumura M, Yamazaki T, Hirose M, Nishikawa A.  
A 13-week subchronic toxicity study of dietary administered saponin-rich and isoflavones-containing soybean extract in F344 rats.  
Food Chem Toxicol. 2009; 47(8): 2150-6.
- Inoue K, Yoshida M, Takahashi M, Fujimoto H, Ohnishi K, Nakashima K, Shibutani M, Hirose M, Nishikawa A.  
Possible contribution of rubiadin, a metabolite of madder color, to renal carcinogenesis in rats.  
Food Chem Toxicol. 2009; 47(4): 752-9.
- Takahashi M, Inoue K, Yoshida M, Morikawa T, Shibutani M, Nishikawa A.  
Lack of chronic toxicity or carcinogenicity of dietary N-acetylglucosamine in F344 rats.  
Food Chem Toxicol. 2009; 47(2): 462-71.
- Inoue K, Yoshida M, Takahashi M, Shibutani M, Takagi H, Hirose M, Nishikawa A.  
Induction of kidney and liver cancers by the natural food additive madder color in a

two-year rat carcinogenicity study.

Food Chem Toxicol. 2009; 47(1): 184-91.

- Kawasaki Y, Hirabayashi Y, Kaneko T, Kanno J, Kodama Y, Matsushima Y, Ogawa Y, Saitoh M, Sekita K, Uchida O, Umemura T, Yoon BI, Inoue T.  
Benzene-induced hematopoietic neoplasms including myeloid leukemia in Trp53-deficient C57BL/6 and C3H/He mice.  
Toxicol Sci. 2009; 110(2): 293-306.
- Jin M, Dewa Y, Kawai M, Nishimura J, Saegusa Y, Kemmochi S, Harada T, Shibutani M, Mitsumori K.  
Induction of liver preneoplastic foci in F344 rats subjected to 28-day oral administration of diheptyl phthalate and its in vivo genotoxic potential.  
Toxicology. 2009; 1-2(1): 16-25.
- Ishii Y, Okamura T, Inoue T, Tasaki M, Umemura T, Nishikawa A.  
Dietary catechol causes increased oxidative DNA damage in the livers of mice treated with acetaminophen.  
Toxicology. 2009; 263(2-3): 93-9.
- Umemura T, Tasaki M, Kijima A, Okamura T, Inoue T, Ishii Y, Suzuki Y, Masui N, Nohmi T, Nishikawa A.  
Possible participation of oxidative stress in causation of cell proliferation and in vivo mutagenicity in kidneys of *gpt* delta rats treated with potassium bromate.  
Toxicology. 2009; 257(1-2): 46-52.
- 西川秋佳  
わが国における食品によるがん化学予防研究の現況と将来への展望—行政よりみた現況と将来  
Administrative View of the Present and Future.  
Food & Food Ingredient J Jpn. 2009; 214(3): 235-7.
- 西川秋佳  
既存添加物の安全性評価—JECFA における評価を含めて—  
JAFAN 日本食品添加物ニュース, 2009; 29(2): 103-7.
- Cho YM, Imai T, Hasumura M, Watanabe N, Ushijima T, Hirose M, Nishikawa A.  
Increased H-ras mutation frequency in mammary tumors of rats initiated with N-

methyl-N-nitrosourea (MNU) and treated with acrylamide.

J Toxicol Sci. 2009; 34(4): 407-12.

- Ota Y, Imai T, Onose J, Takami S, Cho YM, Hirose M, Nishikawa A.  
A 55-week chronic toxicity study of dietary administered kojic acid (KA) in male F344 rats.  
J Toxicol Sci. 2009; 34(3): 305-13.
  - Yoshida M, Sanbuissyo A, Hisada S, Takahashi M, Ohno Y, Nishikawa A.  
Morphological characterization of the ovary under normal cycling in rats and its viewpoints of ovarian toxicity detection.  
J Toxicol Sci. 2009; 34: S189-97.
  - Yoshida M, Watanabe G, Suzuki T, Inoue K, Takahashi M, Maekawa A, Taya K, Nishikawa A.  
Long-term treatment with bromocriptine inhibits endometrial adenocarcinoma development in rats.  
J Reprod Dev. 2009; 55(2): 105-9.
  - Imai T, Takami S, Cho YM, Hirose M, Nishikawa A.  
Modifying effects of prepubertal exposure to potassium perchlorate and tetrabromobisphenol A on susceptibility to N-bis(2-hydroxypropyl)nitrosamine- and 7,12-dimethylbenz(a)anthracene-induced carcinogenesis in rats.  
Toxicol Lett. 2009; 185(3): 160-7.
- 【2010年】**
- Ichimura R, Mizukami S, Takahashi M, Taniyai E, Kemmochi S, Mitsumori K, Shibutani M.  
Disruption of Smad-dependent signaling for growth of GST-P-positive lesions from the early stage in a rat two-stage hepatocarcinogenesis model.  
Toxicol Appl Pharmacol. 2010; 246: 128-40.
  - Takahashi, M., Yoshida, M., Inoue, K., Morikawa, T., and Nishikawa, A.  
Age-related susceptibility to induction of osteochondral and vascular lesions by semicarbazide hydrochloride in rats.  
Toxicol Pathol. 2010; 38: 598-605.
  - Tasaki M, Umemura T, Suzuki Y, Hibi D, Inoue T, Okamura T, Ishii Y, Maruyama S, Nohmi T, Nishikawa A.

Oxidative DNA damage and reporter gene mutation in the livers of *gpt* delta rats given non-genotoxic hepatocarcinogens with cytochrome P450-inducible potency.

Cancer Sci. 2010; 101: 2525-30.

- Pitchakarn P, Ogawa K, Suzuki S, Takahashi S, Asamoto M, Chewonarin T, Limtrakul P, Shirai T.  
*Momordica charantia* leaf extract suppresses rat prostate cancer progression *in vitro* and *in vivo*.  
Cancer Sci. 2010; 101: 2234-40.
- Hibi D, Imazawa T, Kijima A, Suzuki Y, Ishii Y, Jin M, Umemura T, Nishikawa A.  
Investigation of carcinogenicity for levamisole administered in the diet to F344 rats.  
Food Chem Toxicol. 2010; 48: 3321-6.
- Kawamoto K, Sato I, Yoshida M, Tsuda S.  
Air purifiers that diffuse reactive oxygen species potentially cause DNA damage in the lung.  
J Toxicol Sci. 2010; 35: 929-33.
- Okamura T, Ishii Y, Suzuki Y, Inoue T, Tasaki M, Kodama Y, Nohmi T, Mitsumori K, Umemura T, Nishikawa A.  
Effects of co-treatment of dextran sulfate sodium and MeIQx on genotoxicity and possible carcinogenicity in the colon of p53-deficient mice.  
J Toxicol Sci. 2010; 35: 731-41.
- Okamura T, Ishii Y, Suzuki Y, Inoue T, Tasaki M, Kodama Y, Nohmi T, Mitsumori K, Umemura T, Nishikawa A.  
Enhancing effects of carbon tetrachloride on *in vivo* mutagenicity in the liver of mice fed 2-amino-3,8-dimethylimidazo[4,5-*f*]quinoxaline (MeIQx).  
J Toxicol Sci. 2010; 35: 709-20.
- Yahia D, El-Nasser MA, Abedel-Latif M, Tsukuba C, Yoshida M, Sato I, Tsuda S.  
Effects of perfluorooctanoic acid (PFOA) exposure to pregnant mice on reproduction.  
J Toxicol Sci. 2010; 35: 527-33.
- Jin M, Dewa Y, Kawai M, Nishimura J, Saegusa Y, Kemmochi S, Harada T, Shibutani M, Mitsumori K.  
The threshold dose for liver tumor promoting effects of dicyclanil in ICR mice.  
J Toxicol Sci. 2010; 35: 69-78.

- Takami S, Imai T, Cho YM, Hirose M, Nishikawa A.  
Lack of modifying effects of prepubertal exposure to acrylamide (AA) on N-methyl-N-nitrosourea (MNU)-induced multi-organ carcinogenesis in F344 rats.  
J Toxicol Sci. 2010; 35(1): 57-68.
- Mizukami S, Ichimura R, Kemmochi S, Taniai E, Shimamoto K, Ohishi T, Takahashi M, Mitsumori K, Shibutani M.  
Induction of GST-P-positive proliferative lesions facilitating lipid peroxidation with possible involvement of transferrin receptor up-regulation and ceruloplasmin down-regulation from the early stage of liver tumor promotion in rats.  
Arch Toxicol. 2010; 84: 319-31.
- Suzuki T, Jin M, Dewa Y, Ichimura R, Shimada Y, Mizukami S, Shibutani M, Mitsumori K.  
Evaluation of in vivo liver genotoxic potential of Wy-14,643 and piperonyl butoxide in rats subjected to two-week repeated oral administration.  
Arch Toxicol. 2010; 84: 493-500.
- Kawai M, Saegusa Y, Dewa Y, Nishimura J, Kemmochi S, Harada T, Ishii Y, Umemura T, Shibutani M, Mitsumori K.  
Elevation of cell proliferation via generation of reactive oxygen species by piperonyl butoxide contributes to its liver tumor-promoting effects in mice.  
Arch Toxicol. 2010; 84(2): 155-64.
- 塚本徹哉, 豊田武士, 溝下勤, 立松正衛  
動物感染モデルを用いたピロリ菌発癌機構解析  
細胞工学 2010; 29: 549-53.
- 塚本徹哉, 豊田武士, 溝下勤, 立松正衛  
Helicobacter pylori 研究におけるスナネズミモデルの有用性—とくに胃癌を念頭に置いて—  
Helicobacter Res. 2010; 14: 447-53.
- 西川秋佳  
代替法より得られる結果の評価  
Food & Food Ingredient J Jpn. 2010; 215: 398-401.
- 西川秋佳, 井上達, 梅村隆志, 井上薫, 吉田緑, 関田清司, 石井雄二, 小川久

美子, 広瀬明彦, 高木篤也, 堤智昭, 大野泰雄, 渋谷淳, 高橋美和, 小西良子, 穂山浩, 菅野純

食品安全性生物試験関連のトピックス

食品衛生学雑誌. 2010; 51: 415-43.

- Saegusa Y, Woo GH, Fujimoto H, Kemmochi S, Shimamoto K, Hirose M, Mitsumori K, Nishikawa A, Shibutani M.  
Sustained production of Reelin-expressing interneurons in the hippocampal dentate hilus after developmental exposure to anti-thyroid agents in rats.  
Reprod Toxicol. 2010; 29: 407-14.
- Toyoda-Hokaiwado N, Inoue T, Masumura K, Hayashi H, Kawamura Y, Kurata Y, Takamune M, Yamada M, Sanada H, Umemura T, Nishikawa A, Nohmi T.  
Integration of in vivo genotoxicity and short-term carcinogenicity assays using F344 *gpt* delta transgenic rats: in vivo mutagenicity of 2,4-diaminotoluene and 2,6-diaminotoluene structural isomers.  
Toxicol Sci. 2010; 114(1): 71-8.
- Saegusa Y, Woo GH, Fujimoto H, Inoue K, Takahashi M, Hirose M, Igarashi K, Kanno J, Mitsumori K, Nishikawa A, Shibutani M.  
Gene expression profiling and cellular distribution of molecules with altered expression in the hippocampal CA1 region after developmental exposure to anti-thyroid agents in rats.  
J Vet Med Sci. 2010; 72(2): 187-95.
- Ishii Y, Okamura T, Inoue T, Fukuhara K, Umemura T, Nishikawa A.  
Chemical structure determination of DNA bases modified by active metabolites of lucidin-3-O-primeveroside.  
Chem Res Toxicol. 2010; 23(1): 134-41.

**【2011年】**

- Tatematsu K, Koide A, Hirose M, Nishikawa A, Mori Y.  
Effect of cigarette smoke on mutagenic activation of environmental carcinogens by cytochrome P450 2A8 and inactivation by glucuronidation in hamster liver.  
Mutagenesis. 2011; 26: 323-30.
- Iwasaki Y, Nomoto M, Oda M, Mochizuki K, Nakano Y, Ishii Y, Ito R, Saito K,

Umemura T, Nishikawa A, Nakazawa H.

Characterization of nitrated phenolic compounds for their anti-oxidant, pro-oxidant, and nitration activities.

Arch Biochem Biophys. 2011; 513: 10-8.

- Hibi D, Suzuki Y, Ishii Y, Jin M, Watanabe M, Sugita-Konishi Y, Yanai T, Nohmi T, Nishikawa A, Umemura T.  
Site-specific in vivo mutagenicity in the kidney of *gpt* delta rats given a carcinogenic dose of ochratoxin A.  
Toxicol Sci. 2011; 122: 406-14.
- Taketa Y, Yoshida M, Inoue K, Takahashi M, Sakamoto Y, Watanabe G, Taya K, Yamate J, Nishikawa A.  
Differential stimulation pathways of progesterone secretion from newly formed corpora lutea in rats treated with ethylene glycol monomethyl ether, sulphiride, or atrazine.  
Toxicol Sci. 2011; 121: 267-78.
- Morita R, Shimamoto K, Ishii Y, Kuwata K, Ogawa B, Imaoka M, Hayashi S, Suzuki K, Shibutani M, Mitsumori K.  
Suppressive effect of enzymatically modified isoquercitrin on phenobarbital-induced liver tumor promotion in rats.  
Arch Toxicol. 2011; 85: 1475-84.
- Takahashi M, Inoue K, Koyama N, Yoshida M, Irie K, Morikawa T, Shibutani M, Honma M, Nishikawa A.  
Life stage-related differences in susceptibility to acrylamide-induced neural and testicular toxicity.  
Arch Toxicol. 2011; 85: 1109-20.
- Ogawa B, Ohishi T, Wang L, Takahashi M, Taniai E, Hayashi H, Mitsumori K, Shibutani M.  
Disruptive neuronal development by acrylamide in the hippocampal dentate hilus after developmental exposure in rats.  
Arch Toxicol. 2011; 85: 987-94.
- Dewa Y, Nishimura J, Jin M, Kawai M, Saegusa Y, Kenmochi S, Shimamoto K, Harada T, Shibutani M, Mitsumori K.  
Immunohistochemical analyses at the late stage of tumor promotion by oxfendazole in a

rat hepatocarcinogenesis model.

Arch Toxicol. 2011; 85: 155-62.

- Jin M, Kijima A, Suzuki Y, Hibi D, Inoue T, Ishii Y, Nohmi T, Nishikawa A, Ogawa K, Umemura T.  
Comprehensive toxicity study of safrole using a medium-term animal model with *gpt* delta rats.  
Toxicology. 2011; 290(2-3): 313-22.
- Shimamoto K, Dewa Y, Ishii Y, Kemmochi S, Taniai E, Hayashi H, Imaoka M, Morita R, Kuwata K, Suzuki K, Shibutani M, Mitsumori K.  
Indole-3-carbinol enhances oxidative stress responses resulting in the induction of preneoplastic liver cell lesions in partially hepatectomized rats initiated with diethylnitrosamine.  
Toxicology. 2011; 283(2-3): 109-17.
- Pitchakarn P, Suzuki S, Ogawa K, Pompimon W, Takahashi S, Asamoto M, Limtrakul P, Shirai T.  
Induction of G1 arrest and apoptosis in androgen-dependent human prostate cancer by Kuguacin J, a triterpenoid from *Momordica charantia* leaf.  
Cancer Lett. 2011; 306: 142-50.
- Toyoda T, Tsukamoto T, Cho YM, Onami S, Takasu S, Shi L, Saito A, Matsuo S, Tatematsu M, Nishikawa A, Ogawa K.  
Undifferentiated sarcoma of the salivary gland in a Mongolian gerbil (*Meriones unguiculatus*).  
J Toxicol Pathol. 2011; 24: 173-7.
- Takami S, Ogawa K, Umemura T, Hibi D, Ishii Y, Okamura T, Tasaki M, Inoue T, Suzuki Y, Jin M, Cho YM, Nishikawa A.  
Uterine carcinosarcoma in a 2-year-old female Wistar Hannover GALAS rat.  
J Toxicol Pathol. 2011; 24: 63-7.
- Kemmochi S, Fujimoto H, Woo GH, Inoue K, Takahashi M, Mitsumori K, Hirose M, Nishikawa A, Shibutani M.  
Involvement of PTEN/Akt signaling in capsular invasive carcinomas developed in a rat two-stage thyroid carcinogenesis model after promotion with sulfadimethoxine.  
J Cancer Res Clin Oncol. 2011; 137: 723-32.

- Kemmochi S, Fujimoto H, Woo GH, Hirose M, Nishikawa A, Mitsumori K, Shibutani M.  
Preventive effects of calcitriol on the development of capsular invasive carcinomas in a rat two-stage thyroid carcinogenesis model.  
J Vet Med Sci. 2011; 73: 655-64.
- Ishii Y, Suzuki Y, Hibi D, Jin M, Fukuhara K, Umemura T, Nishikawa A.  
Detection and quantification of specific DNA adducts by liquid chromatography-tandem mass spectrometry in the livers of rats given estragole at the carcinogenic dose.  
Chem Res Toxicol. 2011; 24: 532-41.
- Cho YM, Hasumura M, Takami S, Imai T, Hirose M, Ogawa K, Nishikawa A.  
A 13-week subchronic toxicity study of hinokitiol administered in the diet to F344 rats.  
Food Chem Toxicol. 2011; 49: 1782-6.
- Iwasaki Y, Hirasawa T, Maruyama Y, Ishii Y, Ito R, Saito K, Umemura T, Nishikawa A, Nakazawa H.  
Effect of interaction between phenolic compounds and copper ion on antioxidant and pro-oxidant activities.  
Toxicol In Vitro. 2011; 25: 1320-7.
- Yoshida M, Takahashi M, Inoue K, Hayashi S, Maekawa A, Nishikawa A.  
Delayed adverse effects of neonatal exposure to diethylstilbestrol and their dose dependency in female rats.  
Toxicol Pathol. 2011; 39: 823-34.
- Taketa Y, Inomata A, Hosokawa S, Sonoda J, Hayakawa K, Nakano K, Momozawa Y, Yamate J, Yoshida M, Aoki T, Tsukidate K.  
Histopathological characteristics of luteal hypertrophy induced by ethylene glycol monomethyl ether with a comparison to normal luteal morphology in rats.  
Toxicol Pathol. 2011; 39: 372-80.
- Shimamoto K, Hayashi H, Taniai E, Morita R, Imaoka M, Ishii Y, Suzuki K, Shibutani M, Mitsumori, K.  
Antioxidant N-acetyl-L-cysteine (NAC) supplementation reduces reactive oxygen species (ROS)-mediated hepatocellular tumor promotion of indole-3-carbinol (I3C) in rats.  
J Toxicol Sci. 2011; 36: 775-86.

- Hasumura M, Imai T, Cho YM, Ueda M, Hirose M, Nishikawa A, Ogawa K.  
Toxic effects of a horseradish extract and allyl isothiocyanate in the urinary bladder after 13-week administration in drinking water to F344 rats.  
J Toxicol Sci. 2011; 36: 763-74.
- Ozawa S, Gamou T, Habano W, Inoue K, Yoshida M, Nishikawa A, Nemoto K, Degawa M.  
Altered expression of GADD45 genes during the development of chemical-mediated liver hypertrophy and liver tumor promotion in rats.  
J Toxicol Sci. 2011; 36: 613-23.
- Nemoto K, Tanaka T, Ikeda A, Ito S, Mizukami M, Hikida T, Gamou T, Habano W, Ozawa S, Inoue K, Yoshida M, Nishikawa A, Degawa M.  
Super-induced gene expression of the N-methyl-D-aspartate receptor 2C subunit in chemical-induced hypertrophic liver in rats.  
J Toxicol Sci. 2011; 36: 507-14.
- Yoshida M, Takahashi M, Inoue K, Nakae D, Nishikawa A.  
Lack of chronic toxicity and carcinogenicity of dietary administered catechin mixture in Wistar Hannover GALAS rats.  
J Toxicol Sci. 2011; 36: 297-311.
- Kawamoto K, Sato I, Tsuda S, Yoshida M, Yaegashi K, Saito N, Liu W, Jin Y.  
Ultrasonic-induced tonic convulsion in rats after subchronic exposure to perfluorooctane sulfonate (PFOS).  
J Toxicol Sci. 2011; 36: 55-62.
- Fujimoto H, Woo GH, Inoue K, Takahashi M, Hirose M, Nishikawa A, Shibutani M.  
Impaired oligodendroglial development by decabromodiphenyl ether in rat offspring after maternal exposure from mid-gestation through lactation.  
Reprod Toxicol. 2011; 31: 86-94.
- Hur K, Niwa T, Toyoda T, Tsukamoto T, Tatematsu M, Yang HK, Ushijima T.  
Insufficient role of cell proliferation in aberrant DNA methylation induction and involvement of specific types of inflammation.  
Carcinogenesis. 2011; 32: 35-41.
- Hirata-Koizumi M, Fujii S, Ono A, Hirose A, Imai T, Ogawa K, Ema M, Nishikawa A.  
Two-generation reproductive toxicity study of aluminium sulfate in rats.

Reprod Toxicol. 2011; 31: 219-30.

- Hirata-Koizumi M, Fujii S, Ono A, Hirose A, Imai T, Ogawa K, Ema M, Nishikawa A.  
Evaluation of the reproductive and developmental toxicity of aluminium ammonium sulfate in a two-generation study in rats.

Food Chem Toxicol. 2011; 49: 1948-59.

【2012年】

- Suzuki Y, Umemura T, Ishii Y, Hibi D, Inoue T, Jin M, Sakai H, Kodama Y, Nohmi T, Yanai T, Nishikawa A, Ogawa K.

Possible involvement of sulfotransferase 1A1 in estragole-induced DNA modification and carcinogenesis in the livers of female mice.

Mutat Res. 2012; 749: 23-8.

- Suzuki Y, Umemura T, Hibi D, Inoue T, Jin M, Ishii Y, Sakai H, Nohmi T, Yanai T, Nishikawa A, Ogawa K.

Possible involvement of genotoxic mechanisms in estragole-induced hepatocarcinogenesis in rats.

Arch Toxicol. 2012; 86: 1593-601.

- Saegusa Y, Fujimoto H, Woo GH, Ohishi T, Wang L, Mitsumori K, Nishikawa A, Shibutani M.

Transient aberration of neuronal development in the hippocampal dentate gyrus after developmental exposure to brominated flame retardants in rats.

Arch Toxicol. 2012; 86: 1431-42.

- Takami S, Imai T, Cho YM, Ogawa K, Hirose M, Nishikawa A.

Juvenile rats do not exhibit elevated sensitivity to acrylamide toxicity after oral administration for 12 weeks.

J Appl Toxicol. 2012; 32: 959-67.

- Taketa Y, Yoshida M, Inoue K, Takahashi M, Sakamoto Y, Watanabe G, Taya K, Yamate J, Nishikawa A.

The newly formed corpora lutea of normal cycling rats exhibit drastic changes in steroidogenic and luteolytic gene expressions.

Exp Toxicol Pathol. 2012; 64: 775-82.

- Yoshida M, Katsuda S, Maekawa A.

Involvements of estrogen receptor, proliferating cell nuclear antigen and p53 in

endometrial adenocarcinoma development in Donryu rats.

J Toxicol Pathol. 2012; 25: 241-7.

- Ochi A, Ochiai K, Kobara A, Nakamura S, Hatai H, Handharyani E, Tiemann I, Tanaka III IB, Toyoda T, Abe A, Seok SH, Sunden Y, Torralba NC, Park JH, Hafez HM, Umemura T.

Epidemiological study of fowl glioma-inducing virus in chickens in Asia and Germany. Avian Pathol. 2012; 41: 299-309.

- Matsushita K, Ishii Y, Kijima A, Jin M, Takasu S, Kuroda K, Kodama Y, Ogawa K, Umemura T.

Reporter gene mutation in the livers of *gpt* delta mice treated with 5-(hydroxymethyl)-2-furfural, a contaminant of various foods.

J Toxicol Sci. 2012; 37: 1077-82.

- Cho YM, Imai T, Takami S, Ogawa K, Nishikawa A.

Female heterozygous (+/fa) Zucker rats as a novel leptin-related mammary carcinogenesis model.

J Toxicol Sci. 2012; 37: 1025-34.

- Jin M, Kijima A, Suzuki Y, Hibi D, Ishii Y, Nohmi T, Nishikawa A, Ogawa K, Umemura T.

In vivo genotoxicity of 1-methylnaphthalene from comprehensive toxicity studies with B6C3F1 *gpt* delta mice.

J Toxicol Sci. 2012; 37: 711-21.

- Hayashi H, Shimamoto K, Taniai E, Ishii Y, Morita R, Suzuki K, Shibutani M, Mitsumori K.

Liver tumor promoting effect of omeprazole in rats and its possible mechanism of action.

J Toxicol Sci. 2012; 37: 491-501.

- Hojo Y, Shiraki A, Tsuchiya T, Shimamoto K, Ishii Y, Suzuki K, Shibutani M, Mitsumori K.

Liver tumor promoting effect of etofenprox in rats and its possible mechanism of action.

J Toxicol Sci. 2012; 37: 297-306.

- Fujimoto N, Inoue K, Yoshida M, Nishikawa A, Ozawa S, Gamou T, Nemoto K,

Degawa M.

Estrogen and androgen receptor status in hepatocellular hypertrophy induced by phenobarbital, clofibrate, and piperonyl butoxide in F344 rats.

J Toxicol Sci. 2012; 37: 281-6.

- Pitchakarn P, Suzuki S, Ogawa K, Pompimon W, Takahashi S, Asamoto M, Limtrakul P, Shirai T.  
Kuguacin J, a triterpenoid from *Momordica charantia* leaf, modulates the progression of androgen-independent human prostate cancer cell line, PC3.  
Food Chem Toxicol. 2012; 50: 840-7.
- Fujii M, Nakanishi H, Toyoda T, Tanaka I, Kondo Y, Osada H, Sekido Y.  
Convergent signaling in the regulation of connective tissue growth factor in malignant mesothelioma: TGF- $\beta$  signaling and defects in the Hippo signaling cascade.  
Cell Cycle. 2012; 11: 3373-9.
- Fujii M, Toyoda T, Nakanishi H, Yatabe Y, Sato A, Matsudaira Y, Ito H, Murakami H, Kondo Y, Kondo E, Hida T, Tsujimura T, Osada H, Sekido Y.  
TGF- $\beta$  synergizes with defects in the Hippo pathway to stimulate human malignant mesothelioma growth.  
J Exp Med. 2012; 209: 479-94.
- Ota Y, Imai T, Hasumura M, Cho YM, Takami S, Oyamada T, Hirose M, Nishikawa A, Ogawa K.  
Prostaglandin synthases influence thyroid follicular cell proliferation but not carcinogenesis in rats initiated with N-bis(2-hydroxypropyl)nitrosamine.  
Toxicol Sci. 2012; 127: 339-47.
- Takahashi M, Matsuo S, Inoue K, Tamura K, Irie K, Kodama Y, Yoshida M.  
Development of an early induction model of medulloblastoma in Ptch1 heterozygous mice initiated with N-ethyl-N-nitrosourea.  
Cancer Sci. 2012; 103: 2051-5.
- Ogawa K, Pitchakarn P, Suzuki S, Chewonarin T, Tang M, Takahashi S, Naiki-Ito A, Sato S, Takahashi S, Asamoto M, Shirai T.  
Silencing of connexin 43 suppresses invasion, migration and lung metastasis of rat hepatocellular carcinoma cells.  
Cancer Sci. 2012; 103: 860-7.

- Fujimoto H, Woo GH, Inoue K, Igarashi K, Kanno J, Hirose M, Nishikawa A, Shibutani M.  
Increased cellular distribution of vimentin and Ret in the cingulum induced by developmental hypothyroidism in rat offspring maternally exposed to anti-thyroid agents.  
Reprod Toxicol. 2012; 34: 93-100.
  - Ishii Y, Inoue K, Takasu S, Jin M, Matsushita K, Kuroda K, Fukuhara K, Nishikawa A, Umemura T.  
Determination of lucidin-specific DNA adducts by liquid chromatography with tandem mass spectrometry in the livers and kidneys of rats given lucidin-3-O-primeveroside.  
Chem Res Toxicol. 2012; 25: 1112-8.
  - 中村考志, 糸井昭太郎, 藤井雅弓, 中村貴子, 城田浩治, 末留昇, 曹永晩, 小川久美子, 西村秋佳, 松尾友明, 岡本繁久, 朴恩榮, 佐藤健司  
京野菜の食品機能性における普及種に対する優位性とそれを活かした需要の創出  
調理食品と技術 2012; 18: 43-51.
  - 高橋美和  
医食住のマイコトキシン 6 マイコトキシンの健康被害 4-3) その他の毒性  
防菌防黴 2012; 40: 529-34.
  - 西川秋佳  
安全性等に関するトピックの動向 ICH S1A Informal Working Group Meeting  
の進捗状況  
医薬品医療機器レギュラトリーサイエンス 2012; 43: 726-731.
- 【2013 年】**
- Kuroda K, Kijima A, Ishii Y, Takasu S, Jin M, Matsushita K, Kodama Y, Umemura T.  
Flumequine enhances the in vivo mutagenicity of MeIQx in the mouse liver.  
Arch Toxicol. 2013; 87: 1609-19.
  - Nojiri A, Toyoda T, Tanaka T, Yoshida T, Tatematsu M, Tsukamoto T.  
Inflammation enhanced X-irradiation-induced colonic tumorigenesis in the Min mouse.

- Asian Pac J Cancer Prev. 2013; 14: 4135-9.
- Pitchakarn P, Chewonarin T, Ogawa K, Suzuki S, Asamoto M, Takahashi S, Shirai T, Limtrakul P.  
Ellagic Acid inhibits migration and invasion by prostate cancer cell lines.  
Asian Pac J Cancer Prev. 2013; 14: 2859-63.
  - Toyoda T, Tsukamoto T, Yamamoto M, Ban H, Saito N, Takasu S, Shi L, Saito A, Ito S, Yamamura Y, Nishikawa A, Ogawa K, Tanaka T, Tatematsu M.  
Gene expression analysis of a *Helicobacter pylori*-infected and high-salt diet-treated mouse gastric tumor model: identification of CD177 as a novel prognostic factor in patients with gastric cancer.  
BMC Gastroenterol. 2013; 13: 122.
  - Shigematsu Y, Niwa T, Rehnberg E, Toyoda T, Yoshida S, Mori A, Wakabayashi M, Iwakura Y, Ichinose M, Kim YJ, Ushijima T.  
Interleukin-1 $\beta$  induced by *Helicobacter pylori* infection enhances mouse gastric carcinogenesis.  
Cancer Lett. 2013; 340: 141-7.
  - Niwa T, Toyoda T, Tsukamoto T, Mori A, Tatematsu M, Ushijima T.  
Prevention of *Helicobacter pylori*-induced gastric cancers in gerbils by a DNA demethylating agent.  
Cancer Prev Res. 2013; 6: 263-70.
  - Fujii Y, Segawa R, Kimura M, Wang L, Ishii Y, Yamamoto R, Morita R, Mitsumori K, Shibutani M.  
Inhibitory effect of  $\alpha$ -lipoic acid on thioacetamide-induced tumor promotion through suppression of inflammatory cell responses in a two-stage hepatocarcinogenesis model in rats.  
Chem Biol Interact. 2013; 205: 108-18.
  - Matsuo S, Takahashi M, Inoue K, Tamura K, Irie K, Kodama Y, Nishikawa A, Yoshida M.  
Thickened area of external granular layer and Ki-67 positive focus are early events of medulloblastoma in Ptch1(+/-) mice.  
Exp Toxicol Pathol. 2013; 65: 863-73.
  - Yamamoto R, Shimamoto K, Ishii Y, Kimura M, Fujii Y, Morita R, Suzuki K,

Shibutani M, Mitsumori K.

Involvement of PTEN/Akt signaling and oxidative stress on indole-3-carbinol (I3C)-induced hepatocarcinogenesis in rats.

Exp Toxicol Pathol. 2013; 65: 845-52.

- Kuroda K, Kijima A, Jin M, Ishii Y, Takasu S, Matsushita K, Nishikawa A, Umemura T.  
The effects of long-term exposure to ozokerite mainly consisting of an aliphatic series of hydrocarbons using F344 rats.  
Food Chem Toxicol. 2013; 55: 476-83.
- Okamura T, Umemura T, Inoue T, Tasaki M, Ishii Y, Nakamura Y, Park EY, Sato K, Matsuo T, Okamoto S, Nishikawa A, Ogawa K.  
Chemopreventive effects of 4-methylthio-3-butenyl isothiocyanate (raphasatin) but not curcumin against pancreatic carcinogenesis in hamsters.  
J Agric Food Chem. 2013; 61: 2103-8.
- Tasaki M, Kuroiwa Y, Inoue T, Hibi D, Matsushita K, Ishii Y, Maruyama S, Nohmi T, Nishikawa A, Umemura T.  
Oxidative DNA damage and *in vivo* mutagenicity caused by reactive oxygen species generated in the livers of p53-proficient or -deficient *gpt* delta mice treated with non-genotoxic hepatocarcinogens.  
J Appl Toxicol. 2013; 33: 1433-41.
- Ogawa K, Murasaki T, Sugiura S, Nakanishi M, Shirai T.  
Organ differences in the impact of p27kip1 deficiency on carcinogenesis induced by N-methyl-N-nitrosourea.  
J Appl Toxicol. 2013; 33: 471-9.
- Ohmachi Y, Yoshida M, Ogiu T.  
Two cases of metastatic parathyroid carcinoma in male C3H mice following irradiation.  
J Toxicol Pathol. 2013; 26: 413-7.
- Toyoda T, Akagi J, Cho YM, Mizuta Y, Onami S, Suzuki I, Ogawa K.  
Detection of  $\gamma$ -H2AX, a biomarker for DNA double-strand breaks, in urinary bladders of N-butyl-N-(4-hydroxybutyl)-nitrosamine (BBN)-treated rats.  
J Toxicol Pathol. 2013; 26: 215-21.
- Fujimoto H, Woo GH, Morita R, Itahashi M, Akane H, Nishikawa A, Shibutani M.

Increased cellular distribution of vimentin and Ret in the cingulum of rat offspring after developmental exposure to decabromodiphenyl ether or 1,2,5,6,9,10-hexabromocyclododecane.

J Toxicol Pathol. 2013; 26: 119-29.

- Matsushita K, Kijima A, Ishii Y, Takasu S, Jin M, Kuroda K, Kawaguchi H, Miyoshi N, Nohmi T, Ogawa K, Umemura T.  
Development of a medium-term animal model using *gpt* delta rats to evaluate chemical carcinogenicity and genotoxicity.  
J Toxicol Pathol. 2013; 26: 19-27.
- Hayashi S, Taketa Y, Inoue K, Takahashi M, Matsuo S, Irie K, Watanabe G, Yoshida M.  
Effects of pyperonyl butoxide on the female reproductive tract in rats.  
J Toxicol Sci. 2013; 38: 891-902.
- Nemoto K, Ikeda A, Tanaka T, Inoue K, Yoshida M, Nishikawa A, Gamou T, Habano W, Ozawa S, Degawa M.  
Change in the gene expression of the N-methyl-D-aspartate receptor 2C subunit by dietary  $\beta$ -naphthoflavone, indole-3-carbinol, or acetaminophen in the rat liver.  
J Toxicol Sci. 2013; 38: 611-7.
- Inoue K, Morikawa T, Takahashi M, Yoshida M, Ogawa K.  
A 13-week subchronic toxicity study of grape skin extract in F344 rats.  
J Toxicol Sci. 2013; 38: 559-70.
- Morita R, Yafune A, Shiraki A, Itahashi M, Ishii Y, Akane H, Nakane F, Suzuki K, Shibutani M, Mitsumori K.  
Liver tumor promoting effect of orphenadrine in rats and its possible mechanism of action including CAR activation and oxidative stress.  
J Toxicol Sci. 2013; 38: 403-13.
- Yoshida M, Suzuki D, Matsumoto K, Shirota M, Inoue K, Takahashi M, Morita T, Ono A.  
Simulation of acute reference dose (ARfD) settings for pesticides in Japan.  
J Toxicol Sci. 2013; 38: 205-14.
- Hibi D, Kijima A, Kuroda K, Suzuki Y, Ishii Y, Jin M, Nakajima M, Sugita-Konishi Y, Yanai T, Nohmi T, Nishikawa A, Umemura T.

Molecular mechanisms underlying ochratoxin A-induced genotoxicity: global gene expression analysis suggests induction of DNA double-strand breaks and cell cycle progression.

J Toxicol Sci. 2013; 38: 57-69.

- Toyoda T, Takami S, Imai T, Cho YM, Hasumura M, Mizuta Y, Onami S, Suzuki I, Hirose M, Nishikawa A, Ogawa K.  
A 13-week subchronic toxicity study of garden balsam extract in F344 rats.  
Jpn J Food Chem Safety. 2013; 20: 52-60.
- Imai T, Cho YM, Takahashi M, Kitahashi T, Takami S, Nishikawa A, Ogawa K.  
High susceptibility of heterozygous (+/fa) lean Zucker rats to 7,12-dimethylbenz(a)anthracene-induced mammary carcinogenesis.  
Oncol Rep. 2013; 29: 1914-22.
- Takahashi M, Inoue K, Morikawa T, Matsuo S, Hayashi S, Tamura K, Watanabe G, Taya K, Yoshida M.  
Delayed effects of neonatal exposure to 17alpha-ethynylestradiol on the estrous cycle and uterine carcinogenesis in Wistar Hannover GALAS rats.  
Reprod Toxicol. 2013; 40: 16-23.
- Tsukamoto T, Toyoda T, Mizoshita T, Tatematsu M.  
Helicobacter pylori infection and gastric carcinogenesis in rodent models.  
Semin Immunopathol. 2013; 35: 177-90.
- Yoshida M, Suzuki D, Matsumoto K, Shirota M, Inoue K, Takahashi M, Morita T, Ono A.  
Basic principles for setting acute reference dose, ARfD in Japan.  
Shokuhin Eiseigaku Zasshi. 2013; 54: 331-4.
- Kuroda K, Ishii Y, Takasu S, Kijima A, Matsushita K, Watanabe M, Takahashi H, Sugita-Konishi Y, Sakai H, Yanai T, Nohmi T, Ogawa K, Umemura T.  
Cell cycle progression, but not genotoxic activity, mainly contributes to citrinin-induced renal carcinogenesis.  
Toxicology. 2013; 311: 216-24.
- Suzuki S, Pitchakarn P, Ogawa K, Naiki-Ito A, Chewonarin T, Punfa W, Asamoto M, Shirai T, Takahashi S.  
Expression of glutathione peroxidase 2 is associated with not only early

hepatocarcinogenesis but also late stage metastasis.

Toxicology. 2013; 311: 115-23.

- Fujii Y, Kimura M, Ishii Y, Yamamoto R, Morita R, Hayashi SM, Suzuki K, Shibutani M.

Effect of enzymatically modified isoquercitrin on preneoplastic liver cell lesions induced by thioacetamide promotion in a two-stage hepatocarcinogenesis model using rats.

Toxicology. 2013; 305: 30-40.

- Hibi D, Kijima A, Suzuki Y, Ishii Y, Jin M, Sugita-Konishi Y, Yanai T, Nishikawa A, Umemura T.

Effects of p53 knockout on ochratoxin A-induced genotoxicity in p53-deficient *gpt* delta mice.

Toxicology. 2013; 304: 92-9.

- Tamura K, Inoue K, Takahashi M, Matsuo S, Irie K, Kodama Y, Ozawa S, Nishikawa A, Yoshida M.

Dose-response involvement of constitutive androstane receptor in mouse liver hypertrophy induced by triazole fungicides.

Toxicol Lett. 2013; 221: 47-56.

- Jin M, Kijima A, Hibi D, Ishii Y, Takasu S, Matsushita K, Kuroda K, Nohmi T, Nishikawa A, Umemura T.

In vivo genotoxicity of methyleugenol in *gpt* delta transgenic rats following medium-term exposure.

Toxicol Sci. 2013; 131: 387-94.

- Sakamoto Y, Inoue K, Takahashi M, Taketa Y, Kodama Y, Nemoto K, Degawa M, Gamou T, Ozawa S, Nishikawa A, Yoshida M.

Different pathways of constitutive androstane receptor-mediated liver hypertrophy and hepatocarcinogenesis in mice treated with piperonyl butoxide or decabromodiphenyl ether.

Toxicol Pathol. 2013; 41: 1078-92.

- Taketa Y, Inoue K, Takahashi M, Yamate J, Yoshida M.

Differential morphological effects in rat corpora lutea among ethylene glycol monomethyl ether, atrazine, and bromocriptine.

Toxicol Pathol. 2013; 41: 736-43.

- 梅村隆志, 日比大介  
オクラトキシン A の腎発がん機序の解明 (カビ毒・きのこ毒の発生要因を考慮に入れたリスク評価方法の開発)  
食品衛生研究 2013; 63: 19-26.
- 高橋 道人、福島 昭治 編  
伊東毒性病理学  
丸善出版株式会社. 2013.7.30.
- 西川秋佳  
安全性に関するトピックの動向 S1 : がん原性試験 (見直し)  
医薬品医療機器レギュラトリーサイエンス 2013; 44: 939-945.
- 西川秋佳, 小川久美子, 中江 大, 三森国敏  
医薬品のがん原性試験の歴史と課題.  
レギュラトリーサイエンス学会誌. 2013; 3: 165-173.

**【2014 年】**

- Ihara K, Asanuma K, Fukuda T, Ohwada S, Yoshida M, Nishimori K.  
MAGI-2 is critical for the formation and maintenance of the glomerular filtration barrier in mouse kidney.  
Am J Pathol. 2014; 184: 2699-708.
- Ishii Y, Takasu S, Kuroda K, Matsushita K, Kijima A, Nohmi T, Ogawa K, Umemura T.  
Combined application of comprehensive analysis for DNA modification and reporter gene mutation assay to evaluate kidneys of *gpt* delta rats given madder color or its constituents.  
Anal Bioanal Chem. 2014; 406: 2467-75.
- Onami S, Cho YM, Toyoda T, Mizuta Y, Yoshida M, Nishikawa A, Ogawa K.  
A 13-week repeated dose study of three 3-monochloropropane-1,2-diol fatty acid esters in F344 rats.  
Arch Toxicol. 2014; 88: 871-80.
- Saelee P, Chaiwerawattana A, Ogawa K, Cho YM, Tiwawech D, Suktangman V.

Clinicopathological significance of BRCA1 promoter hypermethylation in Thai breast cancer patients.

Asian Pac J Cancer Prev. 2014; 15: 10585-9.

- Takasu S, Ishii Y, Matsushita K, Kuroda K, Kijima A, Kodama Y, Ogawa K, Umemura T.

No effect of high fat diet-induced obesity on spontaneous reporter gene mutations in *gpt* delta mice.

Asian Pac J Cancer Prev. 2014; 15: 7149-52.

- Toyoda T, Yamamoto M, Takasu S, Ogawa K, Tatematsu M, Tsukamoto T.  
Molecular mechanism of gastric carcinogenesis in *Helicobacter pylori*-infected rodent models.

Diseases. 2014; 2: 168-86.

- Matsushita K, Kuroda K, Ishii Y, Takasu S, Kijima A, Kawaguchi H, Miyoshi N, Nohmi T, Ogawa K, Nishikawa A, Umemura T.

Improvement and validation of a medium-term *gpt* delta rat model for predicting chemical carcinogenicity and underlying mode of action.

Exp Toxicol Pathol. 2014; 66: 313-21.

- Tasaki M, Kuroiwa Y, Inoue T, Hibi D, Matsushita K, Kijima A, Maruyama S, Nishikawa A, Umemura T.

Lack of *nrf2* results in progression of proliferative lesions to neoplasms induced by long-term exposure to non-genotoxic hepatocarcinogens involving oxidative stress.

Exp Toxicol Pathol. 2014; 66: 19-26.

- Toyoda T, Cho YM, Mizuta Y, Akagi J, Ogawa K.

A 13-week subchronic toxicity study of ferric citrate in F344 rats.

Food Chem Toxicol. 2014; 74: 68-75.

- Takahashi M, Yoshida M, Inoue K, Morikawa T, Nishikawa A, Ogawa K.

Chronic toxicity and carcinogenicity of semicarbazide hydrochloride in Wistar Hannover GALAS rats.

Food Chem Toxicol. 2014; 73: 84-94.

- Yamada T, Wei M, Toyoda T, Yamano S, Wanibuchi H.

Inhibitory effect of *Raphanobrassica* on *Helicobacter pylori*-induced gastritis in Mongolian gerbils.

Food Chem Toxicol. 2014; 70: 107-13.

- Dixon D, Alison R, Bach U, Colman K, Foley GL, Harleman JH, Haworth R, Herbert R, Heuser A, Long G, Mirsky M, Regan K, Van Esch E, Westwood FR, Vidal J, Yoshida M.  
Nonproliferative and proliferative lesions of the rat and mouse female reproductive system.  
J Toxicol Pathol. 2014; 27 (Suppl): 1-107.
- Inoue K, Takahashi M, Kodama Y, Nishikawa A, Sugita-Konishi Y, Yoshida M.  
The kidneys of infant mice are not sensitive to the food mycotoxin contaminant nivalenol.  
J Toxicol Pathol. 2014; 27: 57-66.
- Takahashi M, Inoue K, Morikawa T, Matsuo S, Hayashi S, Tamura K, Watanabe G, Taya K, Yoshida M.  
Early indicators of delayed adverse effects in female reproductive organs in rats receiving neonatal exposure to 17 $\alpha$ -ethynylestradiol.  
J Toxicol Sci. 2014; 39: 775-84.
- Toyoda T, Cho YM, Mizuta Y, Akagi J, Nishikawa A, Ogawa K.  
A 13-week subchronic toxicity study of sodium iron chlorophyllin in F344 rats.  
J Toxicol Sci. 2014; 39: 109-19.
- Usuda K, Nagaoka K, Nozawa K, Zhang H, Taya K, Yoshida M, Watanabe G.  
Neonatal exposure to 17 $\alpha$ -ethynyl estradiol affects kisspeptin expression and LH-surge level in female rats.  
J Vet Med Sci. 2014; 76: 1105-10.
- Onami S, Cho YM, Toyoda T, Horibata K, Ishii Y, Umemura T, Honma M, Nohmi T, Nishikawa A, Ogawa K.  
Absence of *in vivo* genotoxicity of 3-monochloropropane-1,2-diol and associated fatty acid esters in a 4-week comprehensive toxicity study using F344 *gpt* delta rats.  
Mutagenesis. 2014; 29: 295-302.
- Kuroda K, Hibi D, Ishii Y, Takasu S, Kijima A, Matsushita K, Masumura KI, Watanabe M, Sugita-Konishi Y, Sakai H, Yanai T, Nohmi T, Ogawa K, Umemura T.  
Ochratoxin A induces DNA double-strand breaks and large deletion mutations in the carcinogenic target site of *gpt* delta rats.

Mutagenesis. 2014; 29: 27-36.

- Nozawa K, Nagaoka K, Zhang H, Usuda K, Okazaki S, Taya K, Yoshida M, Watanabe G.  
Neonatal exposure to 17 $\alpha$ -ethynyl estradiol affects ovarian gene expression and disrupts reproductive cycles in female rats.  
Reprod Toxicol. 2014; 46: 77-84.
- Maeda J, Kijima A, Inoue K, Ishii Y, Ichimura R, Takasu S, Kuroda K, Matsushita K, Kodama Y, Saito N, Umemura T, Yoshida M.  
In vivo genotoxicity of Ginkgo biloba extract in *gpt* delta mice and constitutive androstane receptor knockout mice.  
Toxicol Sci. 2014; 140: 298-306.
- Matsuo S, Takahashi M, Inoue K, Tamura K, Irie K, Kodama Y, Nishikawa A, Yoshida M.  
Inhibitory potential of postnatal treatment with cyclopamine, a hedgehog signaling inhibitor, on medulloblastoma development in *Ptch1* heterozygous mice.  
Toxicol Pathol. 2014; 42: 1174-87.
- Inoue K, Morikawa T, Matsuo S, Tamura K, Takahashi M, Yoshida M.  
Adaptive parotid gland hypertrophy induced by dietary treatment of GSE in rats.  
Toxicol Pathol. 2014; 42: 1016-23.
- Kawano M, Qin XY, Yoshida M, Fukuda T, Nansai H, Hayashi Y, Nakajima T, Sone H.  
Peroxisome proliferator-activated receptor  $\alpha$  mediates di-(2-ethylhexyl) phthalate transgenerational repression of ovarian *Esr1* expression in female mice.  
Toxicol Lett. 2014; 228: 235-40.
- 豊田武士, 小川久美子, 塚本徹哉, 立松正衛  
除菌後胃癌の発生機序  
G.I. Research. 2014; 22: 487-93.

【2015年】

- Ichimura R, Takahashi M, Morikawa T, Inoue K, Kuwata K, Usuda K, Yokosuka M, Watanabe G, Yoshida M.  
The critical hormone-sensitive window for the development of delayed effects extends to 10 days after birth in female rats postnatally exposed to 17 $\alpha$ -ethynylestradiol.

- Biol Reprod. 2015; 93: 32.
- Akagi J, Toyoda T, Cho YM, Mizuta Y, Nohmi T, Nishikawa A, Ogawa K.  
Validation study of the combined repeated-dose toxicity and genotoxicity assay using *gpt* delta rats.  
Cancer Sci. 2015; 106: 529-41.
  - Matsushita K, Ishii Y, Takasu S, Kuroda K, Kijima A, Tsuchiya T, Kawaguchi H, Miyoshi N, Nohmi T, Ogawa K, Nishikawa A, Umemura T.  
A medium-term *gpt* delta rat model as an in vivo system for analysis of renal carcinogenesis and the underlying mode of action.  
Exp Toxicol Pathol. 2015; 67: 31-9.
  - Maeda J, Inoue K, Ichimura R, Takahashi M, Kodama Y, Saito N, Yoshida M.  
Essential role of constitutive androstane receptor in Ginkgo biloba extract induced liver hypertrophy and hepatocarcinogenesis.  
Food Chem Toxicol. 2015; 83: 201-9.
  - Tamura K, Inoue K, Takahashi M, Matsuo S, Irie K, Kodama Y, Gamo T, Ozawa S, Yoshida M.  
Involvement of constitutive androstane receptor in liver hypertrophy and liver tumor development induced by triazole fungicides.  
Food Chem Toxicol. 2015; 78: 86-95.
  - Tsaalbi-Shtylik A, Ferras C, Pauw B, Hendriks G, Temviriyankul P, Carlee L, Calleja F, van Hees S, Akagi J, Iwai S, Hanaoka F, Jansen JG, de Wind N.  
Excision of translesion synthesis errors orchestrates responses to helix-distorting DNA lesions.  
J Cell Biol. 2015; 209: 33-46.
  - Yoshida M, Inoue K, Takahashi M.  
Predictive modes of action of pesticides in uterine adenocarcinoma development in rats.  
J Toxicol Pathol. 2015; 28: 207-16.
  - Inoue K, Morikawa T, Takahashi M, Yoshida M, Ogawa K.  
Obstructive nephropathy induced with DL-potassium hydrogen tartrate in F344 rats.  
J Toxicol Pathol. 2015; 28: 89-97.
  - Sakamoto Y, Yoshida M, Tamura K, Takahashi M, Kodama Y, Inoue K.  
Dose-dependent difference of nuclear receptors involved in murine liver hypertrophy

by piperonyl butoxide.

J Toxicol Sci. 2015; 40: 787-96.

- Shirota M, Kawashima J, Nakamura T, Kamiie J, Shirota K, Yoshida M.  
Dose-dependent acceleration in the delayed effects of neonatal oral exposure to low-dose 17 $\alpha$ -ethynylestradiol on reproductive functions in female Sprague-Dawley rats.  
J Toxicol Sci. 2015; 40: 727-38.
- Abbasi A, Khalaj M, Akiyama K, Mukai Y, Matsumoto H, Acosta TA, Said N, Yoshida M, Kunieda T.  
Lack of Rev7 function results in development of tubulostromal adenomas in mouse ovary.  
Mol Cell Endocrinol. 2015; 412: 19-25.
- Ishii Y, Matsushita K, Kuroda K, Yokoo Y, Kijima A, Takasu S, Kodama Y, Nishikawa A, Umemura T.  
Acrylamide induces specific DNA adduct formation and gene mutations in a carcinogenic target site, the mouse lung.  
Mutagenesis. 2015; 30: 227-35.
- Tokudome S, Kuriki K, Yokoyama Y, Sasaki M, Joh T, Kamiya T, Cheng J, Ogawa K, Shirai T, Imaeda N, Goto C, Tokudome Y, Ichikawa H, Okuyama H.  
Dietary n-3/long-chain n-3 polyunsaturated fatty acids for prevention of sporadic colorectal tumors: A randomized controlled trial in polypectomized participants.  
Prostaglandins Leukot Essent Fatty Acids. 2015; 94: 1-11.
- Naiki-Ito A, Chewonarin T, Tang M, Pitchakarn P, Kuno T, Ogawa K, Asamoto M, Shirai T, Takahashi S.  
Ellagic acid, a component of pomegranate fruit juice, suppresses androgen-dependent prostate carcinogenesis via induction of apoptosis.  
Prostate. 2015; 75: 151-60.
- Onami S, Cho YM, Toyoda T, Akagi J, Fujiwara S, Ochiai R, Tsujino K, Nishikawa A, Ogawa K.  
Orally administered glycidol and its fatty acid esters as well as 3-MCPD fatty acid esters are metabolized to 3-MCPD in the F344 rat.  
Regul Toxicol Pharmacol. 2015; 73: 726-31.
- Yoshida M, Suzuki S, Takahashi M, Ichimura R, Inoue K, Taya K, Watanabe G.

Predominant role of the hypothalamic-pituitary axis, not the ovary, in different types of abnormal cycle induction by postnatal exposure to high dose *p-tert*-octylphenol in rats. *Reprod Toxicol.* 2015; 57: 21-8.

- Ichimura R, Takahashi M, Morikawa T, Inoue K, Maeda J, Usuda K, Yokosuka M, Watanabe G, Yoshida M.  
Prior attenuation of KiSS1/GPR54 signaling in the anteroventral periventricular nucleus is a trigger for the delayed effect induced by neonatal exposure to 17 $\alpha$ -ethynylestradiol in female rats.  
*Reprod Toxicol.* 2015; 51: 145-56.
- Toyoda T, Cho YM, Akagi J, Mizuta Y, Hirata T, Nishikawa A, Ogawa K.  
Early detection of genotoxic urinary bladder carcinogens by immunohistochemistry for  $\gamma$ -H2AX.  
*Toxicol Sci.* 2015; 148: 400-8.
- Kuroda K, Hibi D, Ishii Y, Yokoo Y, Takasu S, Kijima A, Matsushita K, Masumura K, Kodama Y, Yanai T, Sakai H, Nohmi T, Ogawa K, Umemura T.  
Role of p53 in the progression from ochratoxin A-induced DNA damage to gene mutations in the kidneys of mice.  
*Toxicol Sci.* 2015; 144: 65-76.
- Kijima A, Ishii Y, Takasu S, Matsushita K, Kuroda K, Hibi D, Suzuki Y, Nohmi T, Umemura T.  
Chemical structure-related mechanisms underlying in vivo genotoxicity induced by nitrofurantoin and its constituent moieties in *gpt* delta rats.  
*Toxicology.* 2015; 331: 125-35.
- 小川久美子  
食品添加物のリスク評価とリスク管理  
*Foods & Food Ingredients Journal of Japan.* 2015; 220: 204-11.
- 吉田緑, 梅村隆志, 小島弘幸, 井上薫, 高橋美和, 浦丸直人, 北村繁幸, 安部賀央里, 頭金正博, 小澤正吾, 吉成浩一  
化学物質のリスク評価における肝肥大の取扱いの基本的考え方  
*食品衛生学雑誌* 2015; 56: 42-8.
- 井上薫, 高橋美和, 梅村隆志, 吉田緑

食品安全委員会により公開されている農薬評価書において用いられた肝臓の病理組織学的所見名の分類とシソーラス構築：毒性病理用語・診断基準国際統一化

食品衛生学雑誌 2015; 56: 96-107.

- 豊田武士, 塚本徹哉, 小川久美子, 立松正衛  
食塩と胃癌－H. pylori 感染との関連も含めて  
臨床消化器内科 2015; 30: 1395-400.
- 小川久美子  
食品添加物のリスク評価とリスク管理  
Foods & Food Ingredients J Jpn. 2015; 220: 204-211.
- 小川久美子  
トランスジェニック動物による動物実験の現況；発がん性のリスク解析への貢献.  
Histo-Logic Japan. 2015; 43: 18-20.  
**【2016年】**
- Zhang H, Nagaoka K, Usuda K, Nozawa K, Taya K, Yoshida M, Watanabe G.  
Estrogenic compounds impair primordial follicle formation by inhibiting the expression of proapoptotic Hrk in neonatal rat ovary.  
Biol Reprod. 2016; 95: 78.
- Yokoo Y, Kijima A, Ishii Y, Takasu S, Tsuchiya T, Umemura T.  
Effects of Nrf2 silencing on oxidative stress-associated intestinal carcinogenesis in mice.  
Cancer Med. 2016; 5: 1228-38.
- Sekimoto M, Sumi H, Hosaka T, Umemura T, Nishikawa A, Degawa M.  
Aryl hydrocarbon receptor activation and CYP1A induction by cooked food-derived carcinogenic heterocyclic amines in human HepG2 cell lines.  
Food Chem Toxicol. 2016; 97: 256-64.
- Kuwata K, Inoue K, Ichimura R, Takahashi M, Kodama Y, Yoshida M.  
Constitutive active/androstane receptor, peroxisome proliferator-activated receptor  $\alpha$ , and cytotoxicity are involved in oxadiazon-induced liver tumor development in mice.

Food Chem Toxicol. 2016; 88: 75-86.

- Toyoda T, Shi L, Takasu S, Cho YM, Kiriya Y, Nishikawa A, Ogawa K, Tatematsu M, Tsukamoto T.  
Anti-inflammatory effects of capsaicin and piperine on *Helicobacter pylori*-induced chronic gastritis in Mongolian gerbils.  
Helicobacter. 2016; 21: 131-42.
- Goto K, Ogawa K.  
Lanthanum deposition is frequently observed in the gastric mucosa of dialysis patients with lanthanum carbonate therapy: a clinicopathologic study of 13 cases, including 1 case of lanthanum granuloma in the colon and 2 nongranulomatous gastric cases.  
Int J Surg Pathol. 2016; 24: 89-92.
- Taketa Y, Inoue K, Takahashi M, Sakamoto Y, Watanabe G, Taya K, Yoshida M.  
Effects of sulpiride and ethylene glycol monomethyl ether on endometrial carcinogenicity in Donryu rats.  
J Appl Toxicol. 2016; 36: 769-76.
- Suzuki I, Cho YM, Hirata T, Toyoda T, Akagi J, Nakamura Y, Park EY, Sasaki A, Nakamura T, Okamoto S, Shirota K, Suetome N, Nishikawa A, Ogawa K.  
4-Methylthio-3-butenyl isothiocyanate (*Raphasatin*) exerts chemopreventive effects against esophageal carcinogenesis in rats.  
J Toxicol Pathol. 2016; 29: 237-46.
- Tamura K, Inoue K, Takahashi M, Matsuo S, Kodama Y, Yoshida M.  
A crucial role of constitutive androstane receptor (CAR) in liver tumor development by imazalil in mice.  
J Toxicol Sci. 2016; 41: 801-11.
- Ichimura R, Takahashi M, Morikawa T, Inoue K, Kuwata K, Usuda K, Yokosuka M, Watanabe G, Yoshida M.  
Neonatal exposure to SERMs disrupts neuroendocrine development and postnatal reproductive function through alteration of hypothalamic kisspeptin neurons in female rats.  
Neurotoxicology. 2016; 56: 64-75.
- Shiga T, Nakamura TJ, Komine C, Goto Y, Mizoguchi Y, Yoshida M, Kondo Y, Kawaguchi M.

A single neonatal injection of ethinyl estradiol impairs passive avoidance learning and reduces expression of estrogen receptor  $\alpha$  in the hippocampus and cortex of adult female rats.

PLoS One. 2016 Jan 7; 11(1): e0146136.

- Takahashi M, Ichimura R, Inoue K, Morikawa T, Watanabe G, Yoshida M.  
The impact of neonatal exposure to 17 $\alpha$ -ethynylestradiol on the development of kisspeptin neurons in female rats.  
Reprod Toxicol. 2016; 60: 33-8.
- Kuwata K, Inoue K, Ichimura R, Takahashi M, Kodama Y, Shibutani M, Yoshida M.  
Involvement of mouse constitutive androstane receptor in acifluorfen-induced liver injury and subsequent tumor development.  
Toxicol Sci. 2016; 151: 271-85.
- Kakehashi A, Yoshida M, Tago Y, Ishii N, Okuno T, Gi M, Wanibuchi H.  
*Pueraria mirifica* exerts estrogenic effects in the mammary gland and uterus and promotes mammary carcinogenesis in Donryu rats.  
Toxins (Basel). 2016 Nov 4; 8(11): 275.  
【2017年】
- Takeshima H, Niwa T, Toyoda T, Wakabayashi M, Yamashita S, Ushijima T.  
The degree of methylation burden is determined by the exposure period to carcinogenic factors.  
Cancer Sci. 2017; 108: 316-21.
- Zhang H, Taya K, Nagaoka K, Yoshida M, Watanabe G.  
4-Nitrophenol (PNP) inhibits the expression of estrogen receptor  $\beta$  and disrupts steroidogenesis during the ovarian development in female rats.  
Environ Pollut. 2017; 229: 1-9.
- Komine C, Nakajima S, Kondo Y, Horii Y, Yoshida M, Kawaguchi M.  
Effects of neonatal 17 $\alpha$ -ethynylestradiol exposure on female-paced mating behaviour in the rat.  
J Appl Toxicol. 2017; 37: 996-1003.
- Cho YM, Hasumura M, Imai T, Takami S, Nishikawa A, Ogawa K.  
Horseradish extract promotes urinary bladder carcinogenesis when administered to F344 rats in drinking water.

- J Appl Toxicol. 2017; 37: 853-62.
- Hirata T, Cho YM, Toyoda T, Akagi J, Suzuki I, Nishikawa A, Ogawa K.  
Lack of *in vivo* mutagenicity of 1,2-dichloropropane and dichloromethane in the livers of *gpt* delta rats administered singly or in combination.  
J Appl Toxicol. 2017; 37: 683-91.
  - Suzuki I, Cho YM, Hirata T, Toyoda T, Akagi J, Nakamura Y, Sasaki A, Nakamura T, Okamoto S, Shirota K, Suetome N, Nishikawa A, Ogawa K.  
Toxic effects of 4-methylthio-3-butenyl isothiocyanate (*Raphasatin*) in the rat urinary bladder without genotoxicity.  
J Appl Toxicol. 2017; 37: 485-94.
  - Hibi D, Yokoo Y, Suzuki Y, Ishii Y, Jin M, Kijima A, Nohmi T, Nishikawa A, Umemura T.  
Lack of genotoxic mechanisms in early-stage furan-induced hepatocellular tumorigenesis in *gpt* delta rats.  
J Appl Toxicol. 2017; 37: 142-9.
  - Matsushita K, Toyoda T, Inoue K, Morikawa T, Sone M, Ogawa K.  
Spontaneous infarcted adenoma of the mammary gland in a Wistar Hannover GALAS rat.  
J Toxicol Pathol. 2017; 30: 57-62.
  - Toyoda T, Cho YM, Akagi J, Mizuta Y, Matsushita K, Nishikawa A, Imaida K, Ogawa K.  
Altered susceptibility of an obese rat model to 13-week subchronic toxicity induced by 3-monochloropropane-1,2-diol.  
J Toxicol Sci. 2017; 42: 1-11.
  - Takasu S, Ishii Y, Yokoo Y, Tsuchiya T, Kijima A, Kodama Y, Ogawa K, Umemura T.  
In vivo reporter gene mutation and micronucleus assays in *gpt* delta mice treated with a flame retardant decabromodiphenyl ether.  
Mutat Res. 2017; 816-817: 7-11.
  - Nonaka M, Amakasu K, Saegusa Y, Naota M, Nishimura T, Ogawa K, Nishikawa A.  
Non-neoplastic lesions found only in the two-year bioassays but not in shorter toxicity studies of rats.  
Regul Toxicol Pharmacol. 2017; 86: 199-204.

- Takahashi M, Ichimura R, Inoue K, Morikawa T, Kuwata K, Watanabe G, Yoshida M. The role of estrogen receptor subtypes for induction of delayed effects on the estrous cycle and female reproductive organs in rats. *Reprod Biol.* 2017; 17: 111-9.
- Miyake Y, Tokumura M, Nakayama H, Wang Q, Amagai T, Ogo S, Kume K, Kobayashi T, Takasu S, Ogawa K, Kannan K. Simultaneous determination of brominated and phosphate flame retardants in flame-retarded polyester curtains by a novel extraction method. *Sci Total Environ.* 2017; 601-602: 1333-9.
- Ishii Y, Kuroda K, Matsushita K, Yokoo Y, Takasu S, Kijima A, Nohmi T, Ogawa K, Umemura T. Phosphorylation of protein phosphatase 2A facilitated an early stage of chemical carcinogenesis. *Toxicol Appl Pharmacol.* 2017; 336: 75-83.
- Zhang H, Taya K, Nagaoka K, Yoshida M, Watanabe G. Neonatal exposure to 17 $\alpha$ -ethynyl estradiol (EE) disrupts follicle development and reproductive hormone profiles in female rats. *Toxicol Lett.* 2017; 276: 92-9.
- Kuwata K, Inoue K, Ichimura R, Takahashi M, Kodama Y, Shibutani M, Yoshida M.  $\beta$ -Catenin mutations are not involved in early-stage hepatocarcinogenesis induced by protoporphyrinogen oxidase inhibitors in mice. *Toxicol Pathol.* 2017; 45: 493-505.
- Furihata C, Toyoda T, Ogawa K, Suzuki T. Using RNA-Seq with 11 marker genes to evaluate 1,4-dioxane compared with typical genotoxic and non-genotoxic rat hepatocarcinogens. *Mutat Res Genet Toxicol Environ Mutagen.* 2018; 834: 51-5.
- Hirata T, Cho YM, Suzuki I, Toyoda T, Akagi JI, Nakamura Y, Numazawa S, Ogawa K. 4-Methylthio-3-butenyl isothiocyanate mediates nuclear factor (erythroid-derived 2)-like 2 activation by regulating reactive oxygen species production in human esophageal epithelial cells. *Food Chem Toxicol.* 2017; 111: 295-301.

- 西川秋佳  
発がん性評価の歴史と今後の展望  
Bull Natl Inst Health Sci. 2017; 135, 19-30.  
【2018年】
- Akagi J, Yokoi M, Cho YM, Toyoda T, Ohmori H, Hanaoka F, Ogawa K.  
Hypersensitivity of mouse embryonic fibroblast cells defective for DNA polymerases  $\eta$ ,  $\iota$  and  $\kappa$  to various genotoxic compounds: Its potential for application in chemical genotoxic screening.  
DNA Repair (Amst). 2018; 61: 76-85.
- Akagi J, Cho YM, Mizuta Y, Toyoda T, Ogawa K.  
Subchronic toxicity evaluation of 5-hexenyl isothiocyanate, a nature identical flavoring substance from *Wasabia japonica*, in F344/DuCrj rats.  
Food Chem Toxicol. 2018; 122: 80-6.
- Toyoda T, Totsuka Y, Matsushita K, Morikawa T, Miyoshi N, Wakabayashi K, Ogawa K.  
 $\gamma$ -H2AX formation in the urinary bladder of rats treated with two norharman derivatives obtained from *o*-toluidine and aniline.  
J Appl Toxicol. 2018; 38: 537-43.
- Tanoue Y, Toyoda T, Sun J, Mustofa MK, Tateishi C, Endo S, Motoyama N, Araki K, Wu D, Okuno Y, Tsukamoto T, Takeya M, Ihn H, Vaziri C, Tateishi S.  
Differential roles of Rad18 and Chk2 in genome maintenance and skin carcinogenesis following UV exposure.  
J Invest Dermatol. 2018; 138: 2550-7.
- Tsuchiya T, Kijima A, Ishii Y, Takasu S, Yokoo Y, Nishikawa A, Yanai T, Umemura T.  
Mechanisms of oxidative stress-induced *in vivo* mutagenicity by potassium bromate and nitrofurantoin.  
J Toxicol Pathol. 2018; 31: 179-88.
- Tsuchiya T, Kijima A, Ishii Y, Takasu S, Yokoo Y, Nishikawa A, Yanai T, Umemura T.  
Role of oxidative stress in the chemical structure-related genotoxicity of nitrofurantoin in *Nrf2*-deficient *gpt* delta mice.

- J Toxicol Pathol. 2018; 31: 169-78.
- Cho YM, Mizuta Y, Akagi J, Toyoda T, Sone M, Ogawa K.  
Size-dependent acute toxicity of silver nanoparticles in mice.  
J Toxicol Pathol. 2018; 31: 73-80.
  - Toyoda T, Cho YM, Akagi J, Mizuta Y, Matsushita K, Nishikawa A, Imaida K, Ogawa K.  
A 13-week subchronic toxicity study of acetaminophen using an obese rat model.  
J Toxicol Sci. 2018; 43: 423-33.
  - IARC Monographs Vol 123 Group, Ogawa K.  
Carcinogenicity of some nitrobenzenes and other industrial chemicals.  
Lancet Oncol. 2018; 19: e681-2.
  - Matsushita K, Toyoda T, Morikawa T, Takahashi M, Inoue K, Ogawa K.  
A 13-week subchronic toxicity study of 2-ethylbutanal in F344 rats.  
Regul Toxicol Pharmacol. 2018; 100: 118-26.
  - Matsushita K, Takasu S, Kuroda K, Ishii Y, Kijima A, Ogawa K, Umemura T.  
Mechanisms underlying exacerbation of osmotic nephrosis caused by pre-existing kidney injury.  
Toxicol Sci. 2018; 165: 420-30.
  - Ambe K, Ishihara K, Ochibe T, Ohya K, Tamura S, Inoue K, Yoshida M, Tohkin M.  
*In silico* prediction of chemical-induced hepatocellular hypertrophy using molecular descriptors.  
Toxicol Sci. 2018; 162: 667-75.
  - Morishita Y, Nomura Y, Fukui C, Fujisawa A, Watanabe K, Fujimaki H, Kumada H, Inoue K, Morikawa T, Takahashi M, Kawakami T, Sakoda H, Mukai T, Yuba T, Inamura K-I, Tanoue A, Miyazaki K-I, Chung U-I, Ogawa K, Yoshida M, and Haishima Y.  
Alternative plasticizer, 4-cyclohexene-1,2-dicarboxylic acid dinonyl ester, for blood containers with protective effects on red blood cells and improved cold resistance.  
J Biomed Mater Res B Appl Biomater. 2018; 106: 1052-63.
  - Nomura Y, Lee M, Fukui C, Watanabe K, Olsen D, Turley A, Morishita Y, Kawakami T, Yuba T, Fujimaki H, Inoue K, Yoshida M, Ogawa K, Haishima Y.  
Proof of concept testing of a positive reference material for in vivo and in vitro skin

irritation testing.

J Biomed Mater Res B Appl Biomater. 2018; 106: 2807-14.

- Tokumura M, Miyake Y, Wang Q, Nakayama H, Amagai T, Ogo S, Kume K, Kobayashi T, Takasu S, Ogawa K.

Methods for the analysis of organophosphorus flame retardants-Comparison of GC-EI-MS, GC-NCI-MS, LC-ESI-MS/MS, and LC-APCI-MS/MS.

J Environ Sci Health A Tox Hazard Subst Environ Eng. 2018; 53: 475-81.

- 小川久美子

国際がん研究機関 (IARC) におけるハザード分析

Foods & Food Ingredients J Jpn. 2018; 223: 27-35.

**【2019 年】**

- Akagi J, Cho YM, Mizuta Y, Tatebe C, Sato K, Ogawa K.

Subchronic toxicity evaluation of isoeugenyl methyl ether in F344/DuCrj rats by 13-week oral administration.

Regul Toxicol Pharmacol. 2019; 102: 34-9.

- Toyoda T, Matsushita K, Morikawa T, Yamada T, Miyoshi N, Ogawa K.

Distinct differences in the mechanisms of mucosal damage and  $\gamma$ -H2AX formation in the rat urinary bladder treated with *o*-toluidine and *o*-anisidine.

Arch Toxicol. 2019; 93: 753-62.

- Ishii Y, Yokoo Y, Kijima A, Takasu S, Ogawa K, Umemura T.

DNA modifications that do not cause gene mutations confer the potential for mutagenicity by combined treatment with food chemicals.

Food Chem Toxicol. 2019; 129: 144-52.

- Matsushita K, Toyoda T, Morikawa T, Ogawa K.

A 13-week subchronic toxicity study of vanillin propylene glycol acetal in F344 rats.

Food Chem Toxicol. 2019; 132: 110643.

- Yang Q, Yasuda T, Choi E, Toyoda T, Roland JT, Uchida E, Yoshida H, Seto Y, Goldenring JR, Nomura S.

MEK inhibitor reverses metaplasia and allows re-emergence of normal lineages in *Helicobacter pylori*-infected gerbils.

Gastroenterology. 2019; 156: 577-81.

- Sone M, Toyoda T, Cho YM, Akagi J, Matsushita K, Mizuta Y, Morikawa T,

Nishikawa A, Ogawa K.

Immunohistochemistry of  $\gamma$ -H2AX as a method of early detection of urinary bladder carcinogenicity in mice.

J Appl Toxicol. 2019 Jun; 39(6): 868-76.

- Ishii Y, Kijima A, Takasu S, Ogawa K, Umemura T.  
Effects of inhibition of hepatic sulfotransferase activity on renal genotoxicity induced by lucidin-3-*O*-primeveroside.  
J Appl Toxicol. 2019; 39: 650-7.
- Toyoda T, Cho YM, Matsushita K, Tachibana S, Senuma M, Akagi J, Ogawa K.  
A 13-week subchronic toxicity study of hexyl acetate in SD rats.  
J Toxicol Pathol. 2019; 32: 205-12.
- Suzuki S, Toyoda T, Kato H, Naiki-Ito A, Yamashita Y, Akagi J, Cho YM, Ogawa K, Takahashi S.  
Dimethylarsinic acid may promote prostate carcinogenesis in rats.  
J Toxicol Pathol. 2019; 32: 73-7.
- Funahashi S, Okazaki Y, Nagai H, Chew SH, Ogawa K, Toyoda T, Cho YM, Toyokuni S.  
Twist1 was detected in mesenchymal cells of mammary fibroadenoma and invasive components of breast carcinoma in rats.  
J Toxicol Pathol. 2019; 32: 19-26.
- Hirata T, Cho YM, Suzuki I, Toyoda T, Akagi J, Nakamura Y, Numasawa S, Ogawa K.  
4-Methylthio-3-butenyl isothiocyanate (MTBITC) induced apoptotic cell death and G2/M cell cycle arrest via ROS production in human esophageal epithelial cancer cells.  
J Toxicol Sci. 2019; 44: 73-81.
- Takasu S, Yokoo Y, Ishii Y, Kijima A, Ogawa K, Umemura T.  
Molecular pathological differences in global gene expression between two sustained proliferative lesions, nodular regenerative hepatocellular hyperplasia and hepatocellular adenoma, in mice.  
Toxicol Pathol. 2019; 47: 44-52.
- 小川久美子  
安全性に関するトピックの動向 ICH S1 EWG (Addendum to S1): ヒト医薬品のげっ歯類発がん性試験について

医薬品医療機器レギュラトリーサイエンス 2019; 50: 411-416.

- 第9版食品添加物公定書解説書 (分担執筆)  
廣川書店, 東京, 2019.  
**【2020年】**
- Akagi J, Hashimoto K, Suzuki K, Yokoi M, de Wind N, Iwai S, Ohmori H, Moriya M, Hanaoka F.  
Effect of sequence context on Pol $\zeta$ -dependent error-prone extension past (6-4) photoproducts.  
DNA Repair (Amst). 2020 Mar; 87: 102771.
- Yamada T, Toyoda T, Matsushita K, Morikawa T, Ogawa K.  
Dose dependency of  $\gamma$ -H2AX formation in the rat urinary bladder treated with genotoxic and nongenotoxic bladder carcinogens.  
J Appl Toxicol. 2020; 40: 1219-27.
- Furihata C, You X, Toyoda T, Ogawa K, Suzuki T.  
Using FFPE RNA-Seq with 12 marker genes to evaluate genotoxic and non-genotoxic rat hepatocarcinogens.  
Genes Environ. 2020; 42: 15.
- Tajima Y, Toyoda T, Hirayama Y, Matsushita K, Yamada T, Ogawa K, Watanabe K, Takamura-Enya T, Totsuka Y, Wakabayashi K, Miyoshi N.  
Novel *o*-Toluidine Metabolite in Rat Urine Associated with Urinary Bladder Carcinogenesis.  
Chem Res Toxicol. 2020; 33: 1907-1914.
- Jacobs MN, Colacci A, Corvi R, Vaccari M, Aguila MC, Corvaro M, Delrue N, Desaulniers D, Ertych N, Jacobs A, Luijten M, Madia F, Nishikawa A, Ogawa K, Ohmori K, Paparella M, Sharma AK, Vasseur P.  
Chemical carcinogen safety testing: OECD expert group international consensus on the development of an integrated approach for the testing and assessment of chemical non-genotoxic carcinogens.  
Arch Toxicol. 2020; 94: 2899-2923.
- Ide T, Mizuta Y, Akagi JI, Masumoto N, Sugimoto N, Sato K, Ogawa K, Cho YM.  
A 90-day repeated oral dose toxicity study of four stereoisomers of 2,4-dimethyl-4-phenyltetrahydrofuran, a synthetic flavoring substance, in F344 rats.

Regul Toxicol Pharmacol. 2020 Apr 27:104664. in press.

- Matsushita K, Toyoda T, Yamada T, Morikawa T, Ogawa K.  
Comprehensive expression analysis of mRNA and microRNA for the investigation of compensatory mechanisms in the rat kidney after unilateral nephrectomy.  
J Appl Toxicol. 2020 May 5. in press.
- Takasu S, Ishii Y, Kijima A, Ogawa K, Umemura T.  
Furan induced characteristic glutathione S-transferase placental form-positive foci in terms of cell kinetics and gene expression.  
Toxicol Pathol. 2020 Aug 24. in press.
- Nakamura K, Ishii Y, Takasu S, Nohmi T, Shibutani M, Ogawa K.  
Lack of *in vivo* mutagenicity of acetamide in a 13-week comprehensive toxicity study using F344 *gpt* delta rats.  
Toxicol Sci. 2020. in press.
- Suzuki S, Gi M, Toyoda T, Kato H, Naiki-Ito A, Kakehashi A, Ogawa K, Takahashi S, Wanibuchi H.  
 $\gamma$ -H2AX is a useful biomarker for prediction of bladder carcinogens in the 4-week study in F344 rats.  
J Toxicol Pathol. 2020. in press.