

References

- Ames, B.N. (1975) A combined bacterial and liver test system for detection and classification of carcinogens as mutagens. *Genetics*, 78(1): 91-95
- Ames, B.N. (1979) Identifying environmental chemical causing mutation and cancer. *Science*, 204:587-593
- Ames, B.N. (1983) Dietary carcinogens and anticarcinogens: Oxygen radicals and degenerative diseases. *Science*, 221: 1256-1264.
- Ames, B.N. (1986) Overview : Food constituents as a source of mutagens , carcinogens and anticarcinogens in : Genetic toxicology of diet. Newyork : Liss, p. 3-32
- Ames, B.N. and Gold, L.S. (1991) Endogenous mutagens and the causes of the aging and cancer. *Mutation Res.*, 250: 3-16.
- Ando, K., Peter, L.J., Hunter, N., Jinnouchi, K., and Matsumoto, T. (1983) Inhibition of artifitial and spontaneous lung metastasis by preirridation of abdomen II. Target organ and mechanism. *British J. Cancer*, 47: 73-79.
- Aspry, K.E. and Bjeldanes, L.F. (1983) Effects of dietary broccoli and butylated hydroxyanisole on liver - mediated metabolism of benzo(a)pyrene. *Food Chem. Toxicol.*, 21: 133-142.
- Balducci, L. and Hardy, C. (1985) Cancer and malnutrition - A critical interaction : A review. *Am. J. Hemato.*, 18: 91-103.
- Bertram, J.S., Kolonel, L.N., and Meyskens, F.L. (1987) Rationale and strategies for chemoprevention of cancer in humans. *Cancer Res.*, 47: 3012-3031.

- Bogaards, J.J.P., Omnen, B., Falke, H.E., Willems, M.I. and Bladeren, P.J. (1990) Glutathione S- transferase subunit induction patterns of Brussels sprouts, allyl isothiocyanate and goitrin in rat liver and small intestinal mucosa : a new approach for the identification of inducing xenobiotics. *Food Chem. Toxicol.*, 28: 81-88.
- Buening, M.K., Wisloski, P.G., and Levin, W. (1978) Tumorigenicity of the optical enantiomers of the diastomeric benzo(a)pyrene 7,8-diol-9,10-epoxides in newborn mice : exceptional activity of (+)-7,8-dihydroxy-9,10-epoxy-7,8,9,10-tetrahydrobenzo(a)pyrene. *Proc.Natl.Acad.Sci.*, 75: 5358-5361.
- Cabajal, D., Casaco, L., Arruzazabala , Gonzalez, R. and Tolon, Z. (1989) Pharmacological study of *Cymbopogon citratus* leaves. *J. of Ethnopharmacology*, 25: 103-107
- Carlini, E.A., Contar, J.P., Silva Filho, A.R., Da Silveira-Filho, N.G., Frochtengarten, M.L., and Bueno, O.F.A. (1986) Pharmacology of lemongrass (*Cymbopogon citratus* Stapf.)I. Effect of teas prepared from the leaves on laboratory animals. *J.of Ethnopharmacology*, 17: 37-64.
- Edler, L. (1992) Statistical methods for short-term tests in genetic toxicology: The first fifteen years. *Mutation Res.*, 277:1-33.
- Fiala, E.S., Reddy, B.S., and Weisburger, J.H. (1985) Naturally occurring anticarcinogenic substances in foodstuff. *Annu.Rev.Nutr.*, 5: 295-321.
- Freshney, R.I. Ed., (1987) Culture of animal cells. 2nd ed., Wiley-Liss : Newyork , p.228-246.

- Geran, R., Greenberg, N., Macdonald, M., Schumacher, A., and Abbott, B. (1972) Protocols for screening chemical agents and natural products. *Cancer Chemother. Rep.*, 3: 1-17.
- Gonzalez, F.J. (1989) The molecular biology of cytochrome P450s. *Pharmacol. Rev.*, 40(4): 244-248.
- Gozukara, E.M., Guengerich, F.P., Miller, H., and Gelboin, H.V. (1982) Different patterns of benzo(a)pyrene metabolism of purified cytochrome P450 from methylcholanthrene, β -naphthoflavone and phenobarbital treated rats. *Carcinogenesis*, 3: 129-133.
- Guo, Z., Smith, T.J., Wang, E., Sadrieh, N., Ma, Q., Thomus, T.E., and Yang, C.S. (1992) Effects of phenethyl isothiocyanate, a carcinogenesis inhibitor, on xenobiotic-metabolizing enzymes and nitrosamine metabolism in rats. *Carcinogenesis*, 13(12) : 2205-2210.
- Hargraves, W.A. (1987) Mutagens in cooked foods. Hathcock, J.N. (Eds) *Nutrition toxicology vol II. Nutrition: Basic and Applied Science. A series of monographs. Academic Press., Washington D.C.*
- Hayatsu, H., Arimoto, S., and Negishi, T. (1988) Dietary inhibitor of mutagenesis and carcinogenesis. *Mutation Res.*, 202: 429-446.
- Higginson, J. (1983) Summary : nutrition and cancer. *Cancer Res.*, 43: 2515-2518.
- Higginson, J. (1988) Changing concepts in cancer prevention : Limitations and implications for future research in environmental carcinogenesis. *Cancer Res.*, 48: 1381-1389.

- Hinneken, C.H. (1980) Micronutrients and cancer prevention. *New Engl.J.Med.*, 315: 1288-1289.
- Hirayama, T., Ogawa, S., Kumo, S., Hanakaki, Y., Yamada, T. and Fuderi, S. (1989) Desmutagenic effect of spices and amino acid pyrolysates in *Salmonella typhimurium* mutagenicity assay. in Abstracts of Mutagens and Carcinogens in the Diet, A Satellite symposium of the Fifth International Conference of Environmental mutagens. p59.
- Kada, T. (1981) Recent research on environmental mutagens, *Nippon Nogeikagaku Kaishi. J.Agr.Biol.Chem.of Japan*, 55: 597-605.
- Kada, T., Inoue, T., Ohta, T., and Shirasu, Y. (1986) Antimutagens and their modes of action, in : Shankel, D.M., Hartman, P.E., Kada, T., and Hollaender (Eds). *Antimutagenesis and Anticarcinogenesis Mechanisms*, Plenum, New York.
- Kada, T., and Shimoi, K. (1986) Desmutagens and bio-antimutagens - Their modes of action. *BioEssays*. 7(3): 113-116.
- Kaltenbach, J.P., Kaltenbach, M.H., Lyons, W.B. (1958) Nigrosin as a dye for differentiating live and dead ascites cells. *Exp.Cell Res.*15:112-117.
- Kato, R., and Yamazoe, Y. (1987) Metabolic activation and covalent binding to nucleic acids of carcinogenic heterocyclic amines from cooked foods and amino acid pyrolysates. *Jpn.J.Cancer Res.* 78(4) : 297-311.
- Kensler, T.W., Egner, P.A., Trush, M.A., Bueding, E. and Groopman, J.D. (1985) Modification of aflatoxin B₁ binding to DNA in vivo in rats fed phenolic antioxidants, ethoxyquin and a dithiothione. *Carcinogenesis*, 6: 759-763.

- Kleman, M., Overvik, E., Blanck, A., and Gustafsson, J.A. (1989) The food mutagens 2-amino-1-methyl-6-phenylimidazo-[4,5-b]-pyridine(PhIP) and 2-amino-3,8-dimethylimidazo[4,5-P]-quinoxaline(MeIQx) initiate enzyme-altered hepatic foci in the resistant hepatocytes model. *Carcinogenesis*. 10(9):1697-16700.
- Kuroda, Y. and Inoue, T. (1988) Antimutagenesis by factors affecting DNA repair in bacteria. *Mutation Res.* 202 : 387-391.
- Land ,H., Parada, L.F., and Weinberg,R.A. (1983) Tumorigenic conversion of primary embryo fibroblasts requires at least two cooperating oncogenes. *Nature*. 271: 262-265.
- Lawley,P.D. (1989) Mutagens as carcinogens; development of current concepts. *Mutation Res.* 213: 3-25.
- Lee, H., Aoki, K., Sakagami, H., Yoshida, T., and Kuroiwa, Y. (1993) Interaction of pine cone extract fraction VI with mutagens. *Mutation Res.* 297: 53-60.
- Leite, J.R. , Seabra, M.L.V. , Maluf, E. , Assolant, K. , Suchecki, D. ,Tufik, S. , Klepacz, S., Celil, H.M, and Carlini, E.A. (1986) Pharmacology of lemongrass (*Cymbopogon citratus* Stapf.) III. Assessment of eventual toxic, hypnotic and anxiolytic effect on human . *J. of Ethnopharmacology*. 17 : 75-83.
- Lim, Sylianco.C.Y., Jocano, A.P., and Lim, C.M. (1988) Antimutagenicity of twenty Phillipine plants using the micronucleus test in mice. *Phillipine Journal of Science*. 117(3): 231-235.

- Lin, J.K., Kennan, E.C., Miller, E.C., and Miller, J.A. (1978) Reduced nicotinamide adenine dinucleotide phosphate-dependent formation of 2,3-dihydro-2,3-dihydroxy- aflatoxin B₁ from aflatoxin B₁ by hepatic microsomes. *Cancer Res.* 38: 2424-2428.
- Lomsri, N. (1993) Partial purification of antimutagenic substances from lemon grass (*Cymbopogon citratus* Stapf.) and their possible mechanism of inhibition. Master Thesis, Chiang Mai University.
- Lomsri, N. and Vinitketkumnuen, U. (1991) Antimutagenicity of lemon grass. Program and Abstracts of the 17th Congress on Science and Technology of Thailand. p622-623.
- Lorenzetti, B.B., Souza, G.E.P., Saiti, S.J, Filho, D.S. and Ferreira, S.M. (1991) Myrcene mimics the peripheral analgesic activity of lemongrass tea. *J. of Ethnopharmacology.* 34: 43-48.
- Luke, K.T., Boling, Z.(1991) Effects of essential oils on glutathione-S-transferase activity in mice. *J.Agric.Food Chem.,* 39, 660-662.
- Magee, P.N., Montesano, R., and Preussman, R. (1976) N-Nitroso compounds and related carcinogens,in Charles E. Searle (Ed.),*Chemical Carcinogens*, Am.Chem.Soc.Monograph, Vol.173, American Chem Washington , D.C. p491-625.
- Makino, H., Ishizaka, Y., Tsujimoto, A., Nakamura, T., Onda,M., Sugimura,T., and Nagao,M. (1992a) Rat p53 gene mutations in primary zymbal gland tumors induced by 2-amino-3-methylimidazo[4,5-f]quinoline,a food mutagen. *Proc.Natl.Acad.Sci.* 89(11):4850-4854.

- Makino, H., Ochiai, M., Caignard, A., Ishizaka, Y., Onda, M., Sugimura, T., and Nagao, M. (1992b) Detection of Ha-ras point mutation by polymerase chain reaction-single strand conformation polymorphism analysis in 2-amino-3,4-dimethylimidazo[4,5-f]quinoline-induced mouse stomach tumors. *Cancer Lett.* 62(2):115-121.
- Maron, D.M, Ames, B.N. (1983) Revised methods for the Salmonella mutagenicity test. *Mutation Res.* 113: 173-215.
- Matic, I., Druzina, V.B., and Alacevic, M. (1991) Repair of cytotoxic lesions induced by N-methyl-N'-nitro-N-nitroguanidine in *Salmonella typhimurium* and *Echerichia coli*. *Mutation Res.* 264: 201-206.
- Matsushima, T., Sawamura, K., Hara, K., and Sukimura, T. (1976) A safe substitute polychlorinated biphenyls as and inducer of metabolic activation system , in F.J. de Serres , JR. Fouts , JR. Bend and RM. Philot (Eds). In *In Vitro Metabolic Activation in Mutagenesis Testing*. Elsevier/ North-Holland. Amsterdam , p.85-88.
- Matsushima, T., Sugimura, T., Nagao, T., Shirai, A., and Sawamura, M. (1980) Factors modulating mutagenicity in microbial tests. in KII Norpoth and RC Garner (eds) *Short- term Test System for Detecting Carcinogens*. Springer, Berlin, p 273-285.
- McCalla, D.R. (1981) Metabolic activation of nitroheterocyclic compounds in bacteria and mammalian cells, in Stich, H.F. and San, R.H.C. (Eds.) , *Short-term test for chemical carcinogenes*. Springer ,New York , p36-47.

- McManus, M.E., Burgess, W., Snyderwine, E. and Stupans, I. (1988) Specificity of rabbit cytochrome P-450 isozymes involved in the metabolic activation of the food derived mutagen 2-amino-3-methylimidazo[4,5-f]quinoline. *Cancer Res.* 48(16): 4513-4519.
- Meevatee, U., Boontim, S., Keereeta, O., Vinitketkumnuen, U. and O-ariyakul, N. (1993) Antimutagenic activity of lemon grass. in *Boot-in,S(ed) Man and Environment*, Chiang Mai University Press. p 346
- Miller, E.C. and Miller, J.A. (1986) Carcinogens and mutagens that may occur in foods. *Cancer*, 58: 1795-1803.
- Mukai, M., Ando, K., Koike, S. and Nagao, K. (1989) Effect of combination therapy of radiation and local administration of OK-432 on a murine fibrosarcoma. *Int. J. Radiation Oncology Biol. Phys.* 17 : 125-130.
- Murakami, A., Kondo, A., Nakamura, Y., Ohigashi, H., and Koshimizu, K. (1993) Possible anti-tumor promoting properties of edible plants from Thailand, and identification of an active constituent, cardamonin, of *Boesenbergia pandurata*. *Biosci.Biotech.Biochem.*, 57(11): 1971-1973.
- Murakami, A., Ohigashi, H. and Koshimizu, K. (1993) Possible anti-tumor promoters from traditional plant food items of Thailand. Abstract of the 11th Asia Pacific Cancer Conference, Bangkok, Thailand, p 83.
- NAPRALERT(SM). "NAPRALERT PROFILE FOR CYMBOPOGON CITRATUS." The University of Illinois. Chicago U.S.A. (May 1993)
- Neal, G.E., and Colley, P.A., (1978) Some high-performance liquid chromatographic studies of the metabolism of aflatoxins by rat liver microsomal preparation. *Biochem.J.*, 174:839-851.

- Newbold, R.F., and Overell, R.W. (1983) Fibroblast immortality is a prerequisite for transformation by EJ c-Ha-ras oncogene. *Nature*, 304: 648-651.
- Oh-Hara, T., Kawazoe, Y. and Sakagami, H. (1990) Lignified materials as potential medicinal resources. III. Diversity of biological activity and possible molecular species involved. *Chem.Pharm.Bull.*, 32: 3755-3758.
- Ohta, T., Watanabe, K., Moriya, M., Shiraru, Y., and Kada, T. (1983) Analysis of antimutagenic effect of cinnamaldehyde on chemically induced mutagenesis in *Echerichia coli*. *Mol.Gen.Genet.* 192: 309-315.
- Onawunmi, G.O., Yisak, W.A., Ogunlana, E.O. (1984) Antibacterial constituents in the essential oil of *Cymbopogon citratus* D.C.Stapf. *J. of Ethanopharmacology*, 12: 279-286.
- Peter, F.M. (1982) Diet, Nutrition, and Cancer : Report of the Committee on Diet, Nutrition, and Cancer, Assembly of Life Sciences, National Research Council. Washington, D.C. : National Academy Press.
- Pinseang, K. (1993) Effect of lemon grass extract on micronucleus formation in rat. Master thesis, Chiang Mai University.
- Pool, B.L. (1988) Short-term tests as a tool in the identification of combinations and combination effects in chemical carcinogenesis. VHC Publisher, Weinheim, p45-64.
- Ramel, C. (1986) Deployment of Short-term assay for the detection of carcinogens ; genetic and molecular considerations. *Mutation Res.*, 168 : 327-342.

- Ramel, C., Alekprrov, U.K., Ames, B.N., Kada, T. and Wattenberg, L.W. (1986) Inhibitor of mutagenesis and their relevance to carcinogenesis. *Mutation Res.*, 168: 47-65.
- Robert, E., Perdue, R.E. (1982) KB cell culture. I. Role in discovery of antitumor agents from higher plants. *J. Nat. Prod.* 45: 418-426.
- Rojanapo, W. and Tepsuwan, A. (1992) Mutagenic and antimutagenic activities of some vegetables. *Bull. Dept.Med.Serv.*, 17: 461-469.
- Rojanapo, W., Tepsuwan, A., and Siripong, P. (1990) Mutagenicity and antimutagenicity of Thai medicinal plants. *Basic.Life.Science*, 52:447-452.
- San, R.H.C. and Chan, R.I.M. (1987) Inhibitory effect of phenolic compounds on aflatoxin B metabolism and induced mutagenesis. *Mutation Res.* 177: 229-239.
- Sakagami, H., Oh-Hara, T., Kohda, K. and Kawazoe, Y. (1990) Lignified materials as a potential medicinal resource.IV. Dehydrogenation polymers of some phenylpropenoids and their capacity to stimulate polymorphonuclear cell iodination. *Chem.Pharm.Bull.* 39, 950-955.
- Sakai, Y., Ose, Y., Kitoh, H., Sato, T., Hasegawa, H., Yoshioka, Y., Kawai, M., Mizuno, M., and Moriguchi, I. (1990) Studies on the quantitative structure activity relationship of antimutagenic phenol carboxylic acids to benzo(a)pyrene. *Eisei Kagaku.* 36: 304-313.
- Salbe, A.D. and Bjeldanes, L.F. (1986) Dietary influences on rat hepatic and intestinal DT- diaphorase activity. *Food Chem. Toxicol.*, 24: 851-856.

- Sato, S. (1986) Genotoxic substances in food. in Ruchirawat, M. and Shank, R.C.(Eds) Environmental Toxicology and Carcinogenesis. Proceeding of the regional workshop. Mahidol University. Bangkok, Thailand.
- Simic, M.G., and Bergtold, D.S. (1991) Dietary modulation of DNA damage in human . Mutation Res., 250: 17-24.
- Snyderwine, E.G., Roller, P.P, Adamson, R.H., Sato, S., Thorgeirsson, S.S. (1988) Reaction of N-acetoxy derivatives of 2-amino-3-methylimidazole [4,5-f] quinoline with DNA. Synthesis and identification of N-(deoxyguanosin-8-yl)-IQ . Carcinogenesis, 9(6) : 1061-1065.
- Souza, Formigoni. M.L.O., Lodder, H.M., Filho, O.G., Ferreira, T.M.S. and Carlini, E.A. (1986) Pharmacology of lemon grass (*Cymbopogon citratus* Stapf) II. Effect of daily two month administration in male and female rats and in offspring exposed "in utero". J. of Ethnopharmacology, 17: 65-74.
- Sporn, M.B., and Newton, D.L. (1979) Chemoprevention of cancer with retinoids. Fed.Proc., 38: 2528-2534.
- Stewart, H.L. (1974) Tumors of the soft tissues. in Turusov, U.S. (Ed) Pathology of tumors in laboratory animal. IARC: Lyon. Vol 2, 487-511.
- Sugimura, T. (1982) Mutagens, Carcinogens, Tumor Promoters in our daily food. Cancer, 49: 1970-1984.
- Sugimura, T. (1986) Studies on environmental chemical carcinogenesis in Japan. Science, 233(4761) : 312-318
- Sugimura, T. (1992) Multistep carcinogenesis : A 1992 perspective. Science. 258: 603-607.

- Sugimura, T., and Sato, S. (1983) Mutagens-carcinogens in food. *Cancer Res.* 43: 2415S-2421S.
- Tadi, P.P., Teel, W.R., Lau, B.H. (1991) Organosulfur compounds of garlic modulate mutagenesis, metabolism, and DNA binding of aflatoxin B₁. *Nutr. Cancer*, 15(2): 87-95.
- Vinitketkumnuen, U., Chiaki, Y., Furihata, C. and Matsushima, T. (1991) Anti-tumor initiating factors from *Cymbopogon citratus*. Abstract of the 17th Congress on Science and Technology of Thailand. Khon Kean University. p 620-621.
- Vinitketkumnuen, U., Meevatee, U. and O-ariyakul, N. (1992) Antimutagenicity of Thai medicinal plants. Abstract of the 19th Annual Meeting of Research Institute of Health Science. Faculty of Medicine, Chiang Mai University.
- Vinitketkumnuen, U., Lomsri, N., Ruangchom, T., Puatanachokchai, R., and Masushima, T. (1993) The study of antimutagenicity of Thai medicinal plants used in cooking. in *Boot-in, S(ed) Man and Environment*, Chiang Mai University Press. p 262-273.
- Water, M.D., Brady, A.L., Stack, H.F. and Brockman, H.E. (1990) Antimutagenicity profiles for some model compounds. *Mutation Res.*, 238: 57-85.
- Wattenberg, L.W. (1983) Inhibition of neoplasia by minor dietary constituents. *Cancer Res.* 43S : 2448-2453.
- Wattenberg, L.W. (1985) Chemoprevention of cancer. *Cancer Res.*, 45: 1-8.
- Wattenberg, L.W. (1993) Prevention-Therapy-Basic science and the resolution of the cancer problem. *Cancer Res.*, 53: 5890-5896.

Wilson AP. in " Animal cell culture ", Freshney RI.(Ed), IRL Press, Washington DC, 1986 ,Chapter 9.

Wynder, E.L. (1977) Cancer prevention : a question of priorities. Nature. 268 : 284.



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