

CURRICULUM VITAE

Name: Keiji Wakabayashi

Present Position: Professor
Food and Environment Research Center
Graduate Division of Nutritional and Environmental Sciences
University of Shizuoka

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Education and Employment:

1971 Shizuoka College of Pharmacy, B. Pharm. Sci.
1977 Shizuoka College of Pharmacy, Ph. D.
1979-1985 Research Staff, National Cancer Center Research Institute
1985-1994 Section Head, Carcinogenesis Division, National Cancer Center
Research Institute
1994-1997 Chief, Biochemistry Division, National Cancer Center Research Institute
1997-2002 Chief, Cancer Prevention Division, National Cancer Center Research
Institute
2002-2007 Deputy Director, National Cancer Center Research Institute
2002- Project Leader, Cancer Prevention Basic Research Project, National
Cancer Center Research Institute
2007- Director, National Cancer Center Research Institute
2011-2014 Professor, Institute for Environmental Sciences, University of Shizuoka
2014- Professor, Graduate Division of Nutritional and Environmental Sciences,
University of Shizuoka

Awards:

Japanese Environmental Mutagen Society Achievement Award, 1985
Incitement Award of the Japanese Cancer Association, 1986
Prize of the Princess Takamatsu Cancer Research Fund, 2005
Japanese Environmental Mutagen Society Award, 2008
Prince Hitachi Prize for Comparative Oncology, 2010

Editorial Boards:

Cancer Epidemiology Biomarkers and Prevention
International Journal of Cancer

Societies:

Japanese Association for Cancer Prevention
Japanese Biochemical Society
Japanese Cancer Association
Japanese Environmental Mutagen Society
American Association for Cancer Research

Specialty and Present Interests:

Food-derived mutagens and carcinogens, and their modification of DNA.
Chemoprevention by dietary factors and medicines.

List of major publications:

- 1) Wakabayashi, K., Ochiai, M., Saito, H., Tsuda, M., Suwa, Y., Nagao, M. and Sugimura, T. Presence of 1-methyl-1,2,3,4-tetrahydro- β -carboline-3-carboxylic acid, a precursor of a mutagenic nitroso compound, in soy sauce. Proc. Natl. Acad. Sci. USA, 80: 2912-2916 (1983).
- 2) Wakabayashi, K., Nagao, M., Esumi, H. and Sugimura, T. Food-derived mutagens and carcinogens. Cancer Res. (Suppl.), 52: 2092s-2098s (1992).
- 3) Nukaya, H., Yamashita, J., Tsuji, K., Terao, Y., Ohe, T., Sawanishi, H., Katsuhara, T., Kiyokawa, K., Tezuka, M., Oguri, A., Sugimura, T. and Wakabayashi, K. Isolation and chemical-structural determination of a novel aromatic amine mutagen in water from the Nishitakase river in Kyoto. Chem. Res. Toxicol., 10: 1061-1066 (1997).
- 4) Watanabe, M., Kono, T., Matsushima-Hibiya, Y., Kanazawa, T., Nishisaka, N., Kishimoto, T., Koyama, K., Sugimura, T. and Wakabayashi, K. Molecular cloning of an apoptosis-inducing protein, pierisin, from cabbage butterfly: Possible involvement of ADP-ribosylation in its activity. Proc. Natl. Acad. Sci. U.S.A., 96: 10608-10613 (1999).
- 5) Watanabe, K., Kawamori, T., Nakatsugi, S., Ohta, T., Ohuchida, S., Yamamoto, H., Maruyama, T., Kondo, K., Ushikubi, F., Narumiya, S., Sugimura, T. and Wakabayashi, K. Role of the prostaglandin E receptor subtype EP1 in colon

carcinogenesis. *Cancer Res.*, 59: 5093-5096 (1999).

- 6) Niho, N., Takahashi, M., Kitamura, T., Shoji, Y., Itoh, M., Noda, T., Sugimura, T. and Wakabayashi, K. Concomitant suppression of hyperlipidemia and intestinal polyp formation in Apc-deficient mice by peroxisome proliferator-activated receptor ligands. *Cancer Res.*, 63: 6090-6095 (2003).
- 7) Nakano, T., Matsushima-Hibiya, Y., Yamamoto, M., Enomoto, S., Matsumoto, Y., Totsuka, Y., Watanabe, M., Sugimura, T. and Wakabayashi, K. Purification and molecular cloning of a DNA ADP-ribosylating protein, CARP-1, from the edible clam *Meretrix lamarckii*. *Proc. Natl. Acad. Sci. USA*, 103: 13652-13657 (2006).
- 8) 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. and Wakabayashi, K. Genotoxicity of nano/microparticles in in vitro micronuclei, in vivo comet and mutation assay systems. *Part. Fibre. Toxicol.*, 6: 23 (2009).
- 9) Mutoh, M., Teraoka, N., Takasu, S., Takahashi, M., Onuma, K., Yamamoto, M., Kubota, N., Iseki, T., Kadowaki, T., Sugimura, T., Wakabayashi, K. Loss of adiponectin promotes intestinal carcinogenesis in Min and wild-type mice. *Gastroenterology*, 140:2000-2008 (2011).
- 10) Ishikawa, H., Mutoh, M., Suzuki, S., Tokudome, S., Saida, Y., Abe, T., Okamura, S., Tajika, M., Joh, T., Tanaka, S., Kudo, S., Matsuda, T., Imuro, M., Yukawa, T., Takayama, T., Sato, Y., Lee, K., Kitamura, S., Mizuno, M., Sano, Y., Gondo, N., Sugimoto, K., Kusunoki, M., Goto, C., Matsuura, N., Sakai, T., Wakabayashi, K. The preventive effects of low-dose enteric-coated aspirin tablets on the development of colorectal tumors in Asian patients (Randomized Trial). *Gut*, 63:1755-1759 (2014).