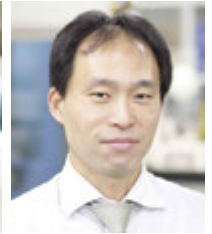


Laboratory of Nutrition and Food Science

STAFF	Professor Akihiro OHARA	Associate Professor Ken-ichiro MINATO
TEACHING	Nutritive Science I Food Hygiene Food Palatability I Food Habits	Nutritive Science II Food Chemistry Food Resources I Advanced Food Hygiene (MC)



Professor
Akihiro OHARA



Associate Professor
Ken-ichiro MINATO

Research

Major Research Objective :
To understand the function of food ingredients which contribute to our health care



Screening of antimutagenicities of medicinal and/or edible plants in Hokkaido

Food Science

- 1) Screening of food factors such as anti-carcinogenic component in vegetables, fruits and mushroom
- 2) Mechanism of activity of immunomodulating factors in vegetables, fruits and mushroom
- 3) Evaluation of antioxidative activity of foods
- 4) Development of dental-care compound

Nutritional Science

- 1) Where a food factor works most effectively?
- 2) How food factors prevent from developing various diseases?



Food factor showed the cytotoxicity to cancer cell (HeLa cell)



Nutrition & Food Science

- 1) Assessment of oxidative stress marker
- 2) When and to whom food factors are prescribed?

Since 1950

Recent publications:

- K. Minato (2010) Mushrooms: Immunomodulative activity and role in health promotion.,in Dietary Components and Immune Function – Prevention and Treatment of Disease and Cancer,” ed. by R. R. Watson, S. Zibadi and V. R. Preedy, Springer,529-539
- Akihiro Ohara, Fumie Saito and Tsugio Matsuhisa:(2008) Screening of antibacterial activities of edible plants against *Streptococcus mutans*, *Food Sci. & Technol. Res.*,14, 190~193
- Minato K.:(2008) A polysaccharide fraction from an edible mushroom, *Pleurotus cornucopiae* var. *citrinopileatus* stimulates an immunomodulating action of murine macrophage, RAW264, on TNF- α and NO productions in vitro, *Int. J. Medicin. Mushrooms* 10, 235-244