日本語

日本栄養大学大学院
日本栄養大学
日本栄養大学短期大学部

Faculty Members

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TERUE KAWABATA

Faculty of Nutrition
Professor

■ Education

1.	1977/04～1981/03	Faculty of Nutrition, Kagawa Nutrition University, Graduated
2.	1984/04～1986/03	〔Master degree program〕, Graduate School, Division of Nutrition, Kagawa Nutrition University, Completed
3.	1996/05/15 Degree Acquisition	Kagawa Nutrition University, PhD

■ Career

1.	1988/04～1998/03	Kagawa Nutrition University Faculty of Nutrition Research Associate
2.	2001/04～2007/03	Kagawa Nutrition University Faculty of Nutrition Associate Professor
3.	2007/04～	Kagawa Nutrition University Faculty of Nutrition Professor

■ Courses Previously Taught

1. Advanced Lectures on Basic Nutrition（Graduate School of Kagawa Nutrition University）
2. Experiments in Nutrition（Kagawa Nutrition University）
3. Experiments in Nutrition and Biochemistry（Kagawa Nutrition University）
4. Fundamental Biology（Kagawa Nutrition University）
5. Fundamental Nutrition（Kagawa Nutrition University）
6. Overview of Nutrition（Kagawa Nutrition University）

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■ Research Interests/Keywords

Physiology, Family and consumer sciences, and culture and living, Physiology (Key Word : Basic nutrition, Lipid nutrition, Fatty acids, Maternal and child nutrition, Genetic polymorphisms)

■ Publications

1.	Journal Articles	Association Between Folic Acid Use and Serum One-Carbon Metabolism-Related Metabolites in Maternal and Cord Blood of Japanese Pregnant Women（Collaboration） 2026/03 Link
2.	Journal Articles	Association of birth outcomes with maternal and infant FADS1 rs174547 genotypes in Japanese participants（Collaboration） 2025/04 Link
3.	Journal Articles	Association of maternal blood and umbilical cord blood plasma fatty acid levels with the body size at birth of Japanese infants（Collaboration） 2024/08 Link
4.	Journal Articles	Relationship between Sources of Dietary Fiber Intake and Homocysteine Metabolism in Relation to Serum Homocysteine Concentrations（Collaboration） 2024/08 Link
5.	Journal Articles	Longitudinal Analysis of One-Carbon Metabolism-Related Metabolites in Maternal and Cord Blood of Japanese Pregnant Women（Collaboration） 2024/06 Link
6.	Journal Articles	Relationship between Serum Homocysteine Concentration and Dietary Factors in Young Japanese Women（Collaboration） 2023/11 Link

7. Journal Articles Serum 5-Methyltetrahydrofolate Status Is Associated with One-Carbon Metabolism-Related Metabolite Concentrations and Enzyme Activity Indicators in Young Women (Collaboration) 2023/07 Link
8. Journal Articles Postprandial fatty acid metabolism with coconut oil in young females: a randomized, single-blind, crossover trial (Collaboration) 2023/06 Link
9. Journal Articles Association of Fatty Acid Desaturase 1 rs174547 Polymorphism with the Composition of Long-Chain Polyunsaturated Fatty Acids in Serum Glycerophospholipids during Pregnancy (Collaboration) 2023/01 Link
10. Journal Articles Investigation of maternal diet and FADS1 polymorphism associated with long-chain polyunsaturated fatty acid compositions in human milk (Collaboration) 2022/05 Link
11. Journal Articles The Body Fat Percentage Rather Than the BMI Is Associated with the CD4 Count among HIV Positive Japanese Individuals (Collaboration) 2022/01
12. Journal Articles Associations of umbilical cord fatty acid profiles and desaturase enzyme indices with birth weight for gestational age in Japanese infants (Collaboration) 2021/01
13. Journal Articles Distribution of 5-Methyltetrahydrofolate and Folic Acid Levels in Maternal and Cord Blood Serum: Longitudinal Evaluation of Japanese Pregnant Women (Collaboration) 2020/05
14. Journal Articles Associations of erythrocyte fatty acid compositions with FADS1 gene polymorphism in Japanese mothers and infants. (Collaboration) 2019/11
15. Journal Articles Aging and FADS1 polymorphisms decrease the biosynthetic capacity of long-chain PUFAs: A human trial using [U-^{13}C]linoleic acid. (Collaboration) 2019/07
16. Journal Articles Relationships between docosahexaenoic acid compositions of maternal and umbilical cord erythrocytes in pregnant Japanese women (Collaboration) 2019/04
17. Journal Articles Validity of Nutrient Intakes Derived from an Internet Website Dish-Based Dietary Record for Self-Management of Weight among Japanese Women. (Collaboration) 2017/09
18. Journal Articles Determinants of polyunsaturated fatty acid concentrations in erythrocytes of pregnant Japanese women from a birth cohort study: study protocol and baseline findings of an adjunct study of the Japan environment & Children's study. (Collaboration) 2017/04
19. Journal Articles Polyunsaturated Fatty Acid Levels in Maternal Erythrocytes of Japanese Women during Pregnancy and after Childbirth. (Collaboration) 2017/03
20. Journal Articles Nutrigenetics of Japanese Vegetarians with Polymorphism in the Fatty Acid Desaturase. (Collaboration) 2016/05
21. Journal Articles Associations between a fatty acid desaturase gene polymorphism and blood arachidonic acid compositions in Japanese elderly (Collaboration) 2016/01
22. Journal Articles Heterogeneity of the Fatty Acid Composition of Japanese Placentae for Determining the Perinatal Fatty Acid Status: a Methodological Study. (Collaboration) 2015/08
23. Journal Articles Influences of stearidonic acid-enriched soybean oil on the blood and organ biochemical parameters in rats. (Collaboration) 2013/02
24. Journal Articles Associations between dietary n-6 and n-3 fatty acids and arachidonic acid compositions in plasma and erythrocytes in young and elderly Japanese volunteers. (Collaboration) 2011/08
25. Journal Articles Influence of Essential Trace Minerals and Micronutrient Insufficiencies on Harmful Metal Overload in a Mongolian Patient with Multiple Sclerosis. (Collaboration) 2011/08
26. Journal Articles Age-related changes of dietary intake and blood eicosapentaenoic acid, docosahexaenoic acid, and arachidonic acid levels in Japanese men and women. (Collaboration) 2011/03
27. Journal Articles A high accumulation of hair minerals in Mongolian people: 2(nd) report; influence of manganese, iron, lead, cadmium and aluminum to oxidative stress, Parkinsonism and arthritis. (Collaboration) 2011/02
28. Journal Articles Low-dose arachidonic acid intake increases erythrocytes and plasma arachidonic acid in young women. (Collaboration) 2010/08
29. Journal Articles Intake of Trans Fatty Acid in Japanese University Students. (Collaboration) 2010/06
30. Journal Articles The association of very high hair manganese accumulation and high oxidative stress in Mongolian people. (Collaboration) 2009/04
31. Journal Articles Dietary habits of Mongolian people, and their influence on lifestyle-related diseases and early aging. (Collaboration) 2008/04
32. Journal Articles Investigation of oxidative stress and dietary habits in Mongolian people, compared to Japanese people. (Collaboration) 2006/06

33.	Journal Articles	Leptin resistance conferred by a combination of single nucleotide polymorphism and the adoption of a western lifestyle in urban areas of Thailand(1). (Collaboration) 2006/05
34.	Journal Articles	Comparison of electro- cardiogram findings and lifestyles between urbanized people and ger-living people in Ulaanbaatar, Mongolia. (Collaboration) 2004/07
35.	Journal Articles	Prevalence of diego blood group Di^a antigen in mongolians: comparison with that in Japanese. (Collaboration) 2004/04
36.	Journal Articles	High prevalence of antibodies to hepatitis A and E viruses and viremia of hepatitis B, C, and D viruses among apparently healthy populations in Mongolia. (Collaboration) 2004/03
37.	Journal Articles	Longevity and diet in Okinawa, Japan: The past, present and future. (Collaboration) 2003/11
38.	Journal Articles	Improvement in blood lipid levels by dietary sn-1,3-diacylglycerol in young women with variants of lipid transporters 54T-FABP2 and -493g-MTP. (Collaboration) 2003/05
39.	Journal Articles	Validity of a self-administered food frequency questionnaire used in the 5-year follow-up survey of the JPHC study cohort 1 to assess fatty acid intake: Comparison with dietary records and serum phospholipid level. (Collaboration) 2003/05

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■ Grants

1.	2011/04～2013/03	The transport of polyunsaturated fatty acids across the placenta to the fetus and the subsequent growth and development of the infant (Key Word : Unsaturate fatty acids, Placental transfer, Maternal and chid nutrition, Birth cohort)
2.	2013/04～2016/03	Analysis of lipid nutrition by fatty acid desaturase gene polymorphisms in vegetarians. (Key Word : Vegetarians, Genetic polymorphisms, Docosahexaenoic acid, Eicosapentaenoic acid, Arachidonic acid, Fatty acid desaturases)
3.	2014/04～2017/03	Does the intake of n-3 fatty acids contribute to infant growth and development - Verification by epidemiology - (Key Word : n-3 fatty acids, Birth cohorts, Human milk, blood, Fatty acid desaturase, SNP, Trans fatty acids)
4.	2014/04～2017/03	Verification of Improving Dietary Habits: Implementation of a Nutrition Education Program for Junior High School Students (Key Word : Nutrition education, Okinawa, Childhood obesity, Dietary survey, Children's dietary habits)
5.	2019/04～2022/03	The association with nutritional status and gene polymorphism and one carbon metabolism in pregnant women (Key Word : One-carbon metabolism, Epigenetic modification, Pregnancy, Folic acid, Nutrition)
6.	2020/04～	Comprehensive evaluation of one-carbon metabolic kinetics of folic acid supplementation in women of childbearing age. (Key Word : Folic acid, One-carbon metabolism, Supplement, Intervention, Women of childbearing age)
7.	2021/04	Do Omega-3 Fatty Acids in Fetal and Infancy Improve ADHD-like Behavior at Age 8? (Key Word : Human milk, Omega-3, ADHD, Omega-3 fatty acids, Birth cohort)
8.	2022/04～	Effects of folic acid administration on n-3 fatty acids and choline metabolism in women of childbearing age. (Key Word : Folic acid intake, n-3 fatty acids, Choline metabolism, Phospholipids, One-carbon metabolism)

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■ Memberships

1.	1981/04～	Japan Society of Nutrition and Food Science
2.	1990/04～	The Japan Society of Clinical Nutrition
3.	1992/04～	Japan Society of Lipid Nutrition
4.	2004/01～	Japan Oil Chemists Society
5.	2004/01～	The Japanese Society of Nutrition and Dietetics
6.	2010/01～	The Japanese Society for Hygiene
7.	2013/01	Japan Society for the Study of Obesity
8.	2017/05～	The Japan Society for Developmental Origins of Health and Disease
9.	2019/01～	The Japanese Society for Breastfeeding Research

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■ Prizes,Honors,and Awards

1. 2006/09 Lands Award; Nutritional Management Award