

CURRICULUM VITAE

Name: Toshinao Goda, Ph.D.

Date of birth: December 13, 1955

Education:

- 1979 Graduated from School of Health Sciences, Faculty of Medicine, University of Tokyo.
- 1981 Completed Master Program of Health Sciences, Graduate School of Health Sciences, University of Tokyo.
- 1984 Completed Doctoral Program of Health Sciences, Graduate School of Health Sciences, University of Tokyo, under supervision of Prof. Norimasa Hosoya, Ph.D in Health Sciences

Faculty Appointments:

- 1982-1984 Predoctoral Fellow, Department of Pediatrics, University of Arizona under supervision of Prof. Otakar Koldovsky in the Section of Perinatal and Nutritional Science
- 1984-1985 Research Associate, Department of Pediatrics, University of Arizona
- 1985-1987 Research Assistant Professor, Department of Pediatrics, University of Arizona
- 1987 Instructor, Department of Nutrition, School of Food and Nutritional Sciences, The University of Shizuoka
- 1997 Lecturer, Department of Nutrition, School of Food and Nutritional Sciences, The University of Shizuoka
- 1999-2007 Associate Professor, Chief, Laboratory of Nutritional Physiology, Department of Nutrition, School of Food and Nutritional Sciences, and Graduate School of Nutritional and Environmental Sciences, The University of Shizuoka
- 2007 Professor, Chief, Laboratory of Nutritional Physiology,
-present Department of Nutrition, School of Food and Nutritional Sciences, and Graduate School of Nutritional and Environmental Sciences, The University of Shizuoka
- 2011-2012 Dean, Graduate School of Nutritional and Environmental Sciences, The University of Shizuoka
- 2012-2013 Dean, Graduate Division of Nutritional and Environmental Sciences,
Vice Dean, Graduate School of Integrated Pharmaceutical and Nutritional Sciences, The University of Shizuoka
- 2013-2017 Dean, School of Food and Nutritional Sciences, The University of Shizuoka
- 2017 Vice President, The University of Shizuoka
-present

Awards:

- 1993 Young Scientist Award of Japan Society of Nutrition and Food Science
- 2001 Award of Japanese Society of Digestion and Absorption
- 2017 Award of Japan Society of Nutrition and Food Science

Academic and Social Activities:

- 2001 Committee member for approving Food for Specified Health Uses (FoSHU)
- 2015 Ministry of Health, Labour and Welfare, and Cabinet Office, Government of Japan
- 2002 Core member, University of Shizuoka Center of Excellence (COE) in the 21st century
- 2007 founded by Ministry of Education, Science, Sports and Culture of Japan, Director of Clinical Epidemiology Section
- 2007 Core member, the Global COE program “Innovation in Human Health Sciences”
- 2012 founded by Ministry of Education, Science, Sports and Culture of Japan, Director of Clinical Epidemiology Section
- 2015-present Director, Fuji-no-Kuni Center for Future Education, University of Shizuoka
Center of Community (COC) for Healthy Longevity, *Promoting physical, mental, and community health*

Membership in Academic Societies:

- Japan Society of Nutrition and Food Science (Councilor)
- Japanese Society on Nutrition Care and Management (Trustee)
- Japanese Society of Clinical Nutrition (Councilor)
- Japanese Society of Digestion and Absorption (Councilor)
- The Vitamin Society of Japan (Councilor)
- Japanese Society for Retinoid Research
- The Japanese Biochemical Society
- Japan Diabetes Society
- Japan Society for Healthcare Administration
- American Society for Nutrition

PUBLICATIONS: (articles in peer-reviewed journals)

1. Ikeda, M., Honma, K., Mochizuki, K., Goda, T. (2016): Fasting for 3 days during the suckling-weaning transient period in male rats induces metabolic abnormalities in the liver and is associated with impaired glucose tolerance. *Eur. J. Nutr.*, 55, .1059-1067
2. Honma, K., Hikosaka, M., Mochizuki, K., Goda, T. (2016): Loss of circadian rhythm of circulating insulin concentration induced by high-fat diet intake is associated with disrupted rhythmic expression of circadian clock genes in the liver. *Metabolism*, 65, 482-491
3. Tamaoki, K., Okada, R., Ishihara, A., Shiojiri, N., Mochizuki, K., Goda, T., Yamauchi, K. (2016): Morphological, biochemical, transcriptional and epigenetic responses to fasting and refeeding in intestine of *Xenopus laevis*. *Cell Biosci.* 6: 2
4. Endo, K., Kuriki, K., Kasezawa, N., Tohyama, K., Goda, T. (2016): Impact of interactions between self-reported psychological stress and habitual exercise on the dietary intake of Japanese men and women: a large-scale cross-sectional study. *Asian Pac. J. Cancer Prev.*, 17, 2007-2017
5. Honma, K., Mawatari, R., Ikeda, M., Mochizuki, K., Goda, T. (2016): Fasting during the suckling-weaning transient period of rats induces inflammatory gene expression in the adipose tissue and peripheral leukocytes. *Nutrition*, 32, 1268-1274
6. Inamochi, Y., Dey, A., Nishiyama, A., Kubota, T., Ozato, K., Goda, T., Mochizuki, K. (2016): Transcription elongation factor Brd4-P-TEFb accelerates intestinal differentiation-associated SLC2A5 gene expression. *Biochemistry and Biophysics Reports*, 7, 150-156
7. Yamada, A., Honma, K., Mochizuki, K., Goda, T. (2016): Brd4 regulates fructose-inducible lipid accumulation-related genes in the mouse liver. *Metabolism*, 65, 1478-1488
8. Shirai, Y., Kuriki, K., Endoh, K., Miyauchi, R., Kasezawa, N., Tohyama, K., Goda, T. (2016): Positive linear dose-response relationships, but no J-shaped relationship, between drinking habits and estimated glomerular filtration rate in middle-aged Japanese men. *Alcohol*, 51: 71-77
9. Wakasugi, Y., Hashidume, S., Sano, A., Mochizuki, K., Goda, T., Ichikawa, Y. (2016): Glycemic response in healthy Japanese subjects after consuming potatoes and white rice. *J. ARAHE*, 23 (1): 1-8
10. Miura, A., Sugiyama, C., Sakakibara, H., Shimoi, K., Goda, T. (2016): Bioavailability of isoflavones from soy products in equol producers and non-producers in Japanese women. *J. Nutr. Intermed. Met.* 41-47. DOI: 10.1016/j.jnim.2016.08.001
11. Inoue, S., Honma, K., Mochizuki, K., Goda, T. (2015): Induction of histone H3K4 methylation at the promoter, enhancer, and transcribed regions of the *Si* and *Sglt1* genes in rat jejunum in response to a high-starch/low-fat diet. *Nutrition*, 31: 366-372
12. Suzuki, T., Muramatsu, T., Morioka, K., Goda, T., Mochizuki, K. (2015): ChREBP binding and histone modifications modulate hepatic expression of the *Fasn* gene in a metabolic syndrome rat model. *Nutrition*, 31, 877-883
13. Hariya, N., Miyake, K., Kubota, T., Goda, T., Mochizuki, K. (2015): Putative PPAR target genes express highly in skeletal muscle of insulin-resistant MetS model SHR/NDmc-cp rats. *J. Nutr. Sci. Vitaminol.*, 61, 28-36
14. Endo, K., Kuriki, K., Kasezawa, N., Tohyama, K., Goda, T. (2015): Interactions between psychological stress and drinking status in relation to diet among middle-aged men and women: a large-scale cross-sectional study in Japan. *J. Nutr. Sci. Vitaminol.*, 61, 64-72
15. Oe, Y., Mochizuki, K., Miyauchi, R., Misaki, Y., Kasezawa, N., Tohyama, K., Goda, T. (2015): Plasma TNF- α is associated with inflammation and nutritional status in community-dwelling Japanese elderly. *J. Nutr. Sci. Vitaminol.*, 61, 263-269
16. Yamada, M., Mochizuki, K., Honma, K., Miyauchi, R., Kasezawa, N., Tohyama, K., Goda, T. (2015):

- Serum fatty acid binding protein 4 concentrations are positively and independently associated with blood pressure and abdominal fat among parameters health check-ups in middle-aged general Japanese males. *J. Nutr. Sci. Vitaminol.*, 61, 291-298
17. Imai, C., Harazaki, T., Inoue, S., Mochizuki, K., Goda, T. (2015): Treatment with DPP-4I anagliptin or α -GI miglitol reduces IGT development and the expression of CVD risk factors in OLETF rats. *J. Nutr. Sci. Vitaminol.*, 61, 313-321
 18. Endo, K., Kuriki, K., Kasezawa, N., Tohyama, K., Goda, T. (2015): Association between smoking status and nutrient consumption in Japanese: a large-scale cross-sectional study. *Asian Pac. J. Cancer Prev.*, 16, 6527-6534 (ほか総計232報)
 19. Goda, N., Murase, H., Kasezawa, N., Goda, T., Yamakawa-Kobayashi K. (2015): Polymorphism in microTNA-binding site in HNF1B influences the susceptibility of type 2 diabetes mellitus: a population based case-control study. *BMC Med. Genet.*, 16: 75
 20. Oe, Y., Yoshida, S. and Goda, T. (2015): Associations between nursing care levels and nutrition status in the elderly in nursing care facilities. *Nutr Care Management* 15 (2), 47-53
 21. Mochizuki, K., Hariya, N., Miyauchi, R., Misaki, Y., Ichikawa, Y., Goda, T. (2014): Self-reported faster eating is associated with higher ALT activity in middle-aged apparently healthy Japanese women. *Nutrition*, 30: 69-74
 22. Inamochi, Y., Mochizuki, K., Goda, T. (2014): Histone code of genes induced by co-treatment with a glucocorticoid hormone agonist and a p44/42 MAPK inhibitor in human small intestinal Caco-2 cells. *Biochim. Biophys. Acta- General Subjects*, 1840, 693-700
 23. Harazaki, T., Inoue, S., Imai, C., Mochizuki, K., Goda, T. (2014): Resistant starch improves insulin resistance and reduces adipose tissue weight and CD11c expression in the adipose tissues of OLETF rats. *Nutrition*, 30, 590-595
 24. Hariya, N., Mochizuki, K., Inoue, S., Morioka, K., Shimada, M., Goda, T. (2014): Insulin resistance in SHR/NDmc-cp rats correlates with enlarged perivascular adipocytes and endothelial cell dysfunction in skeletal muscle. *J. Nutr. Sci. Vitaminol.*, 60, 52-59
 25. Imai, C., Saito, M., Mochizuki, K., Fuchigami, M., Goda, T., Osonoi, T. (2014): Cotreatment with the α -glucosidase inhibitor miglitol and DPP-4 inhibitor sitagliptin improves glycemic control and reduces the expressions of CVD risk factors in type 2 diabetic Japanese patients. *Metabolism*, 63, 746-753
 26. Sakakibara, H., Ichikawa, Y., Tajima, S., Makino, Y., Wakasugi, Y., Shimoi, K., Kobayashi, S., Kumazawa, S., Goda, T. (2014): Practical application of flavonoid-poor menu meals to the study of the bioavailability of bilberry anthocyanins in human subjects. *Biosci. Biotechnol. Biochem.*, 78, 1748-1752
 27. Morishita, S., Mochizuki, K., Goda, T. (2014): Bindings of ChREBP and SREBP1, and histone acetylation around the rat liver fatty acid synthase gene are associated with induction of the gene during suckling-weaning transition. *J. Nutr. Sci. Vitaminol.*, 60, 94-100
 28. Honma, K., Masuda, Y., Mochizuki, K., Goda, T. (2014): Re-feeding rats a high-sucrose diet after 3 days starvation enhances histone H3 acetylation in transcribed region and expression of jejunal GLUT5 gene. *Biosci. Biotechnol. Biochem.*, 78, 1771-1073
 29. Hariya, N., Mochizuki, K., Inoue, S., Saito, M., Fuchigami, M., Goda, T. (2014): Switching α -glucosidase inhibitors to miglitol reduced glucose fluctuations and circulating cardiovascular disease risk factors in type 2 diabetic Japanese patients. *Drugs R. D.*, 14, 177-184
 30. Suzuki, T., Mochizuki, K., Goda, T. (2014): Thyroid and glucocorticoid hormones induce expression of lactase-phlorizin hydrolase gene in CDX-2/HNF-1 α co-transfected IEC-6 cells. *J. Nutr. Sci. Vitaminol.*, 60, 321-327
 31. Mochizuki, K., Yamada M., Miyauchi, R., Misaki, Y., Kasezawa, N., Tohyama, K., Goda, T. (2014): Self-reported faster eating is positively associated with accumulation of visceral fat in middle-aged apparently healthy Japanese men. *Eur. J. Nutr.*, 53: 1187-1194

32. Yamaguchi, N., Sunto, A., Goda, T., Suruga, K. (2014): Competitive regulation of human intestinal b-carotene 15, 15'-monooxygenase 1 (BCMO1) gene expression by hepatocyte nuclear factor (HNF)-1 α and HNF-4 α . *Life Sci.*, 119: 34-39
33. Mochizuki, K., Miyauchi, R., Misaki, Y., Ichikawa, Y., Goda, T. (2013) Principal component 1 score calculated from metabolic syndrome diagnostic parameters is a possible marker for the development of metabolic syndrome in middle-aged Japanese men without treatment for metabolic diseases. *Eur. J. Nutr.*, 52: 67-74
34. Shimada, M., Mochizuki, K., Goda, T. (2013) Methylation of histone H3 at lysine 4 and expression of the maltase-glucoamylase gene are reduced by dietary resistant starch. *J. Nutr. Biochem.*, 24: 606-612
35. Mochizuki, K., Miyauchi, R., Hariya, N., Misaki, Y., Kasezawa, N., Tohyama, K., Goda, T. (2013): Self-reported rate of eating is associated with higher circulating ALT activity in middle-aged apparently healthy Japanese men. *Eur. J. Nutr.*, 52: 985-990
36. Inamori, T., Goda, T., Kasezawa, N., Yamakawa-Kobayashi, K. (2013): The combined effects of genetic variations in the *SIRT1* gene and dietary intake of n-3 and n-6 polyunsaturated fatty acids on serum LDL-C and HDL-C levels: a population based study. *Lipids Health Disease*, 12: 4
37. Sunto, A., Mochizuki, K., Miyauchi, R., Misaki, Y., Shimada, M., Kasezawa, N., Tohyama, K., Goda, T. (2013): Serum γ -GTP activity is closely associated with serum CRP levels in non-overweight and overweight middle-aged Japanese men. *J. Nutr. Sci. Vitaminol.*, 59: 108-114.
38. Mochizuki, K., Inoue, S., Miyauchi, R., Misaki, Y., Shimada, M., Kasezawa, N., Tohyama, K., Goda, T. (2013): Plasma sE-selectin level positively correlated with neutrophil count and diastolic blood pressure in Japanese men. *J. Nutr. Sci. Vitaminol.*, 59: 447-453.
39. Yamazaki, J., Mochizuki, K., Miyauchi, R., Ichikawa, Y., Goda, T. (2013): Circulating interleukin-1 β concentrations are independently-positively associated with γ -glutamyltransferase activity within the normal range in middle-aged apparently healthy Japanese women. *J. Nutr. Sci. Vitaminol.*, 59, 526-532.
40. Imai, C., Harazaki, T., Inoue, S., Mochizuki, K., Goda, T. (2013): Inhibition of postprandial hyperglycemia by either an insulin-dependent or -independent drug reduces the expression of genes related to inflammation in peripheral leukocytes of OLETF rats. *Biosci. Biotechnol. Biochem.*, 77, 2305-2308.
41. Honma, K., Mochizuki, K., Goda, T. (2013): Induction by fructose force-feeding of histone H3 and H4 acetylation at their lysine residues around the *Slc2a5* gene and its expression in mice. *Biosci. Biotechnol. Biochem.*, 77, 2188-2191.
42. Uchiyama, Y., Suzuki, T., Mochizuki, K., Goda, T. (2013): Dietary supplementation with a low dose of (-)-epigallocatechin-3-gallate reduces pro-inflammatory responses in peripheral leukocytes of non-obese type 2 diabetic GK rats. *J. Nutr. Sci. Vitaminol.*, 59, 541-547.
43. Uchiyama, Y., Suzuki, T., Mochizuki, K., Goda, T. (2013): Dietary supplementation with (-)-epigallocatechin-3-gallate reduces inflammatory response in adipose tissue of non-obese type 2 diabetic Goto-Kakizaki (GK) rats. *J. Agr. Food Chem.*, 61, 11410-11417.
44. Waguri, T., Goda, T., Kasezawa, N., Yamakawa-Kobayashi, K. (2013): The combined effects of genetic variations in the GPR120 gene and dietary fat intake on obesity risk. *Biomed. Res.*, 34, 69-74.
45. Mochizuki, K., Misaki, Y., Miyauchi, R., Takabe, S., Shimada, M., Kuriki, K., Ichikawa, Y., Goda, T. (2012) A higher rate of eating is associated with higher circulating interleukin-1 β concentrations in Japanese men not being treated for metabolic diseases. *Nutrition*, 28: 978-983
46. Mochizuki, K., Ishihara, A., Goda, T., Yamauchi, K. (2012): RNA polymerase II phosphorylation at serine 2 and histone H3 tri-methylation at lysine 36 are key steps for thyroid hormone receptor β gene activation by thyroid hormone in *Rana catesbeiana* tadpole liver. *Biochem. Biophys. Res. Commu.* 417: 1069-1073
47. Mochizuki, K., Miyauchi, R., Misaki, Y., Kasezawa, N., Tohyama, K., Goda, T. (2012): Associations between leukocyte counts and cardiovascular disease risk factors in apparently healthy Japanese men. *J. Nutr. Sci. Vitaminol.*, 58: 181-186.

48. Yoshinaga, Y., Mochizuki, K., Goda, T. (2012) Trimethylation of histone H3K4 is associated with the induction of fructose-inducible genes in rat jejunum. *Biochem. Biophys. Res. Commun.* 419: 605-611
49. Mochizuki, K., Goda, T., Yamauchi, K. (2012) Gene expression profile in the liver of *Rana catesbeiana* tadpoles exposed to low temperature in the presence of thyroid hormone. *Biochem. Biophys. Res. Commun.*, 420: 845-850
50. Yamakawa-Kobayashi, K., Natsume, M., Aoki, S., Nakano, S., Inamori, T., Kasezawa, N., Goda, T. (2012): The combined effect of the T2DM susceptibility genes is an important risk factor for T2DM in non-obese Japanese: a population based case-control study. *BMC Medical Genetics*, 13: 11
51. Mochizuki, H., Mochizuki, K., Suruga, K., Igarashi, M., Takase, S., Goda T. (2012): Induction of the BCMO1 gene during the suckling-weaning transition in rats is associated with histone H3 K4 methylation and subsequent coactivator binding and histone H3 acetylation to the gene. *J. Nutr. Sci. Vitaminol.*, 58: 319-326
52. Mabuchi, R., Kurita, A., Miyoshi, N., Yokoyama, A., Furuta, T., Goda, T., Suwa, Y., Kan, T., Amagai, T., Ohshima, H. (2012): Analysis of N (ε)-ethyllysine in human plasma proteins by gas chromatography-negative ion chemical ionization/mass spectrometry as a biomarker for exposure to acetaldehyde and alcohol. *Alcohol. Clin. Exp. Res.*, 36 (6): 1013-1020
53. Kobayashi, S., Murakami, K., Sasaki, S., Uenishi, K., Yamasaki, M., Hayabuchi, H., Goda, T., Oka, J., Baba, K., Ohki, K., Watanabe, R., Sugiyama, Y. (2012): Dietary total antioxidant capacity from different assays in relation to serum C-reactive protein among young Japanese women. *Nutr. J.*, 11: 91
54. Hiroi, M., Nagahara, Y., Miyauchi, R., Misaki, Y., Goda, T., Kasezawa, N., Sasaki, S., Yamakawa-Kobayashi, K. (2011): The combination of genetic variations in the PRDX3 gene and dietary fat intake contribute to obesity risk. *Obesity (Silver Spring)*, 19: 882-887
55. Mochizuki, K., Misaki, Y., Miyauchi, R., Takabe, S., Shimada, M., Miyoshi, N., Ichikawa, Y., Goda, T. (2011): Circulating interleukin-1 β and interleukin-6 concentrations are closely associated with g-glutamyltranspeptidase activity in middle-aged Japanese men without obvious cardiovascular diseases. *Metabolism*, 60: 914-922
56. Mochizuki, K., Miyauchi, R., Misaki, Y., Shimada, M., Kasezawa, T., Tohyama, K., Goda, T. (2011): Accumulation of visceral fat is positively associated with serum ALT and γ -GTP activities in healthy and preclinical middle-aged Japanese men. *J. Nutr. Sci. Vitaminol.*, 57: 65-73
57. Iwashina, I., Mochizuki, K., Inamochi, Y., Goda, T. (2011): Clock genes regulate the feeding schedule-dependent diurnal rhythm changes in hexose transporter gene expressions through the binding of BMAL1 to the promoter/enhancer and transcribed regions. *J. Nutr. Biochem.*, 22: 334-343
58. Fujimoto, S., Goda, T., Mochizuki, K. (2011): In vivo evidence of enhanced di-methylation of histone H3 K4 on upregulated genes in adipose tissue of diabetic db/db mice. *Biochem. Biophys. Res. Commun.*, 404: 223-227
59. Suzuki, T., Douard, V., Mochizuki, K., Goda, T., Ferraris, R. (2011): Diet-induced epigenetic regulation in vivo of the intestinal fructose transporter GLUT5 during development of rat small intestine. *Biochem. J.*, 435: 43-53
60. Ishii, T., Ichikawa, T., Minoda, K., Kusaka, K., Ito, S., Suzuki, Y., Akagawa, M., Mochizuki, K., Goda, T., Nakayama, T. (2011): Human serum albumin as an antioxidant in the oxidation of (-)-epigallocatechin gallate: participation of reversible covalent binding for interaction and stabilization. *Biosci. Biotechnol. Biochem.*, 75:100-106
61. Shimada, M., Mochizuki, K., Goda, T. (2011): Feeding rats dietary resistant starch reduces both the binding of ChREBP and the acetylation of histones on the Thrsp gene in the jejunum. *J. Agr. Food Chem.*, 59: 1464-1469

62. Inoue, S., Mochizuki, K., Goda, T. (2011): Jejunal induction of SI and SGLT1 genes in rats by high-starch/low-fat diet is associated with histone acetylation and binding of GCN5 on the genes. *J. Nutr. Sci. Vitaminol.*, 57: 162-169
63. Mochizuki, K., Fukaya, N., Tanaka, Y., Fuchigami, M., Goda, T. (2011): Treatment with the α -glucosidase inhibitor miglitol from the preonset stage in Otsuka Long-Evans Tokushima Fatty rats improves glycemic control and reduces the expression of inflammatory cytokine genes in peripheral leukocytes. *Metabolism*, 60: 1560-1565
64. Miyamoto, K., Higashino, S., Mochizuki, K., Goda, T., Koyama, K. (2011): Evaluation of weight loss in the community-dwelling elderly with dementia as assessed by eating behavior and mental status. *Asia Pac. J. Clin. Nutr.* 20: 9-13
65. Mochizuki, K., Misaki, Y., Miyauchi, R., Takabe, S., Shimada, M., Ichikawa, Y., Goda, T. (2011): Associations between markers of liver injury and cytokine markers for insulin sensitivity and inflammation in middle-aged Japanese men not being treated for metabolic diseases. *J. Nutr. Sci. Vitaminol.*, 57: 409-417
66. Kameji, H., Mochizuki, K., Miyoshi, N., Goda, T. (2010): β -Carotene accumulation in 3T3-L1 adipocytes inhibits the elevation of ROS generation and the suppression of genes related to insulin sensitivity induced by TNF- α . *Nutrition* 26: 1151-1156.
67. Inamochi, Y., Mochizuki, K., Osaki, A., Ishii, T., Nakayama, T., Goda, T. (2010): Histone H3 methylation at lysine 4 on the SLC2A5 gene in intestinal Caco-2 cells is involved in SLC2A5 expression. *Biochem. Biophys. Res. Commu.* 392: 16-21
68. Mochizuki, K., Honma, K., Shimada, M., Goda, T. (2010): The regulation of jejunal induction of the maltase-glucoamylase gene by a high-starch/ low-fat diet in mice. *Mol. Nutr. Food Res.* 54: 1445-1451
69. Misaki, Y., Miyauchi, R., Mochizuki, K., Takabe, S., Shimada, M., Ichikawa, Y., Goda, T. (2010): Plasma interleukin-1 β concentrations are closely associated with fasting blood glucose levels in healthy and preclinical middle-aged nonoverweight and overweight Japanese men. *Metabolism*. 59: 1465-1471
70. Mochizuki, K., Igawa-Tada, M., Takase, S., Goda, T. (2010): Feeding rats a high fat/carbohydrate ratio diet reduces jejunal S/I activity ratio and unsialylated galactose on glycosylated chain of S-I complex. *Life Sci.* 86: 524-531
71. Mochizuki, K., Hanai, E., Suruga, K., Kuranuki, S., Goda, T. (2010): Changes in α -glucosidase activities along the jejunal-ileal axis of normal rats by the α -glucosidase inhibitor miglitol. *Metabolism*. 59: 1442-1447
72. Mochizuki, K., Sato, Y., Takase, S., Goda, T. (2010): Changes in mucosal α -glucosidase activities along the jejunal-ileal axis by an hm-HACS diet intake are associated with decreased lipogenic enzyme activity in epididymal adipose tissue. *J. Agr. Food Chem.*, 58: 6923-6927
73. Fujimoto, S., Mochizuki, Goda, T. (2010): Gene expression of inflammatory cytokines in peripheral leukocytes in db/db mice rose with progression of diabetes. *Biosci. Biotechnol. Biochem.*, 74: 1488-1490
74. Osonoi, T., Saito, M., Mochizuki, K., Fukaya, N., Muramatsu, T., Inoue, S., Fuchigami, M., Goda, T. (2010): The α -glucosidase inhibitor miglitol decreases glucose fluctuations and inflammatory cytokine gene expression in peripheral leukocytes of Japanese patients with type 2 diabetes. *Metabolism*, 59:1816-1822
75. Mochizuki, K., Shimada, M., Tanaka, Y., Fukaya, N., Goda, T. (2010): Reduced expression of β 2 integrin genes in rat peripheral leukocytes by inhibiting postprandial hyperglycemia. *Biosci. Biotechnol. Biochem*, 74: 2470-2474
76. Fujimoto, S., Mochizuki, K., Shimada, M., Murayama, Y., Ohashi, N., Goda, T. (2010): Insulin resistance induced by a high-fat diet is associated with the induction of genes related to leukocyte activation in rat peripheral leukocytes. *Life Sci.*, 87: 679-685
77. Tanaka, Y., Mochizuki, K., Fukaya, N., Shimada, M., Goda, T. (2009): The α -glucosidase inhibitor miglitol suppresses postprandial hyperglycemia and IL-1 β and TNF- α gene expression induced in rat peripheral leukocytes by intermittent sucrose loading. *Br. J. Nutr.* 102: 221-225
78. Fukaya, N., Mochizuki, K., Shimada, M., Goda, T. (2009): The α -glucosidase inhibitor miglitol decreases

- glucose fluctuations and gene expression of inflammatory cytokines induced by hyperglycemia in peripheral leukocytes. *Nutrition* 25: 657-667
79. Murayama, Y., Mochizuki, K., Shimada, M., Matsuoka, Y., Shibata, K., Goda, T. (2009): Effects of wheat albumin consumption on expression of genes related to lipogenesis and insulin sensitivity in adipose tissues of rats. *J. Agr. Food Chem.* 57: 1606-1611
 80. Yamaguchi, N., Miyamoto, S., Ogura, Y., Goda, T., Suruga, K. (2009): Hepatocyte nuclear factor- α regulates human cellular retinol-binding protein type II gene expression in intestinal cells. *Am. J. Physiol. Gastrointest. Liver Physiol.* 296: G524-G533
 81. Yorita, S., Mochizuki, K., Goda, T. (2009): Induction of histone acetylation on the sucrase-isomaltase gene in the postnatal rat jejunum. *Biosci. Biotechnol. Biochem.* 73: 933-935
 82. Sakurai, N., Mochizuki, K., Goda, T. (2009): Modifications of histone H3 at lysine 9 on the adiponectin gene in 3T3-L1 adipocytes. *J. Nutr. Sci. Vitaminol.* 55: 131-138
 83. Mochizuki, K., Yorita, S., Goda, T. (2009): Gene expression changes in the jejunum of rats during the transient suckling-weaning period. *J. Nutr. Sci. Vitaminol.* 55: 139-148
 84. Sakurai, N., Mochizuki, K., Kameji, H., Shimada, M., Goda, T. (2009): (-)-Epigallocatechin gallate enhances the expression of gene related to insulin sensitivity and adipocyte differentiation in 3T3-L1 adipocytes at an early stage of differentiation. *Nutrition* 25: 1047-1056
 85. Osada, Y., Miyauchi, R., Goda, T., Kasezawa, N., Horiike, H., Iida, M., Sasaki, S., Yamakawa-Kobayashi, K. (2009): Variations in the WNK1 gene modulates the effect of dietary intake of sodium and potassium on blood pressure determination. *J. Hum. Genet.* 54: 474-478
 86. Sakakibara, H., Ogawa, T., Koyanagi, A., Kobayashi, S., Goda, T., Kumazawa, S., Kobayashi, H., Shimoi, K. (2009): Distribution and excretion of bilberry anthocyanines in mice. *J. Agr. Food Chem.* 57: 7681-7686
 87. Suzuki, T., Mochizuki, K. and Goda, T. (2009): Localized expression of genes related to carbohydrate and lipid absorption along the crypt-villus axis of rat jejunum. *Biochim. Biophys. Acta*, 1790: 1624-1635
 88. Murayama, Y., Mochizuki, K., Shimada, M., Fujimoto, S. Nukui, K. Shibata, K., Goda, T. (2009): Dietary supplementation with α -amylase inhibitor wheat albumin to high-fat diet-induced insulin-resistant rats is associated with increased expression of genes related to fatty acid synthesis in adipose tissue. *J. Agr. Food Chem.* 57: 9332-9338
 89. Shimada, M., Mochizuki, K. and Goda, T. (2009): Feeding rats dietary resistant starch shifts the peak of SGLT1 gene expression and histone H3 acetylation on the gene from the upper jejunum towards the ileum. *J. Agr. Food Chem.* 57: 8049-8055
 90. Shimada, M., Mochizuki, K. and Goda, T. (2009): Dietary resistant starch reduces histone acetylation on the glucose-dependent insulinotropic polypeptide gene in the jejunum. *Biosci. Biotechnol. Biochem.*, 73: 2754-2757
 91. Fukaya, N., Mochizuki, K., Tanaka, Y., Kumazawa, T., Jiuxin, Z., Fuchigami, M., Goda, T. (2009): The alpha-glucosidase inhibitor miglitol delays the development of diabetes and dysfunctional insulin secretion in pancreatic beta-cells in OLETF rats. *Eur. J. Pharmacol.* 624: 51-57
 92. Mochizuki, K., Kawai, H., Mochizuki, H., Shimada, M., Takase, S. and Goda, T. (2008): Fatty acids in component of milk enhance the expression of the cAMP-response-element-binding-protein-binding-protein (CBP)/p300 gene in developing rats. *Br. J. Nutr.* 99: 481-486
 93. Honma, K., Mochizuki, K. and Goda, T. (2008): Acute induction of histone acetylation on the jejunal sucrase-isomaltase gene by dietary fructose. *Br. J. Nutr.* 100: 698-702
 94. Murakami, K., Sasaki, S., Takahashi, Y., Uenishi, K., Yamasaki, M., Hayabuchi, H., Goda, T., Oka, J., Baba, K., Ohki, K., Kohri, T., Watanabe, R. and Sugiyama, Y. (2008): Misreporting of dietary energy, protein, potassium, and sodium in relation to body mass index in young Japanese women. *Eur. J. Clin. Nutr.* 62: 111-118
 95. Suzuki, T., Mochizuki, K. and Goda, T. (2008): Histone H3 modifications and Cdx-2 binding to the

- sucrase-isomaltase (SI) gene is involved in induction of the gene in the transition from the crypt to villus in the small intestine of rats. *Biochem. Biophys. Res. Commun.* 369: 788-793
96. Takabe, S., Mochizuki, K. and Goda, T. (2008): De-phosphorylation of GR at Ser203 in nuclei associates with GR nuclear translocation and GLUT5 gene expression in Caco-2 cells. *Arch. Biochem. Biophys.* 475: 1-6
 97. Mochizuki, K., Takabe, S. and Goda, T. (2008): Changes of histone H3 modifications on the GLUT5 gene and its expression in Caco-2 cells co-treated with a p44/42 MAPK inhibitor and glucocorticoid hormone. *Biochem. Biophys. Res. Commun.* 371: 324-327
 98. Kashimura, J., Nagai, Y. and Goda, T. (2008): Inhibitory action of palatinose and its hydrogenated derivatives on the hydrolysis of α -glucosylsaccharides in the small intestine. *J. Agr. Food Chem.* 56: 5892-5895
 99. Ogawa, K., Sakakibara, H., Iwata, R., Ishii, T., Sato, T., Goda, T., Shimoi, K. and Kumazawa, S. (2008): Anthocyanin composition and antioxidant activity of the crowberry (*Empetrum nigrum*) and other berries. *J. Agr. Food Chem.* 56 : 4457-4462
 100. Ogura, Y., Yasutake, H., Mochizuki, K., Yoshikawa, S., Suruga, K., Sugiyama, H., Takase, S. and Goda, T. (2008): Distribution and dietary induction of cellular retinol-binding protein type II along the villus-crypt axis of the rat jejunum. *J. Nutr. Sci. Vitaminol.* 54: 130-135
 101. Mochizuki, K., Suzuki, T. and Goda, T. (2008): PPAR α and PPAR δ transactivity and p300 binding activity induced by arachidonic acid in colorectal cancer cell line Caco-2. *J. Nutr. Sci. Vitaminol.* 54: 298-302
 102. Shimada, M., Mochizuki, K. and Goda, T. (2008): Dietary resistant starch reduces levels of GIP mRNA along the jejunum-ileum in both normal and type 2 diabetic rats. *Biosci. Biotech. Biochem.* 72: 2206-2209
 103. Tanaka, T., Suzuki, A., Kuranuki, S., Mochizuki, K., Suruga, K., Takase, S. and Goda, T. (2008): Higher expression of jejunal LPH gene in rats fed the high-carbohydrate/low-fat diet compared with in those fed the low-carbohydrate/high-fat diet is associated with in vitro binding of Cdx-2 in nuclear proteins to its promoter regions. *Life Sci.* 83: 122-127
 104. Murakami, K., Sasaki, S., Takahashi, Y., Uenishi, K., Yamasaki, M., Hayabuchi, H., Goda, T., Oka, J., Baba, K., Ohki, K., Muramatsu, K. and Sugiyama, Y. (2008): Total n-3 polyunsaturated fatty acid intake is inversely associated with serum C-reactive protein in young Japanese women. *Nutr. Res.* 28: 309-314
 105. Fujimoto, S., Mochizuki, K., Shimada, M., Murayama, Y. and Goda, T. (2008): Variations in gene expression of inflammatory cytokines in leukocyte-derived cells of high-fat-diet-induced insulin-resistant rats. *Biosci. Biotech. Biochem.* 72: 2572-2579
 106. Honma, K., Mochizuki, K., Goda, T. (2008): Inductions of histone H3 acetylation at lysine 9 on SGLT1 gene and its expression by feeding mice a high carbohydrate/fat ratio diet. *Nutrition* 25: 40-44
 107. Kuranuki, S., Mochizuki, K., Tanaka, T. and Goda, T. (2007): The possible roles of homeobox protein, Cdx-2 for the expression of LPH gene during postnatal development. *Life Sci.* 80: 795-799
 108. Mochizuki, K., Yagi, R., Sakaguchi, N., Mochizuki, H., Takabe, S., Kuranuki, S., Suzuki, T., Shimada, M. and Goda, T. (2007): The critical period for thyroid hormone responsiveness through thyroid hormone receptor isoform alpha-1 in the postnatal small intestine. *Biochim. Biophys. Acta* 1770: 609-616
 109. Murakami, K., Sasaki, S., Takahashi, Y., Uenishi, K., Yamasaki, M., Hayabuchi, H., Goda, T., Oka, J., Baba, K., Ohki, K., Kohri, T., Watanabe, R. and Sugiyama, Y. (2007): Nutrient and food intake in relation to serum leptin concentration among young Japanese women. *Nutrition* 23: 461-468
 110. Mochizuki, K., Sakaguchi, N. and Goda, T. (2007): Triiodothyronine (T₃) and fructose coordinately enhance the expression of GLUT5 gene in the small intestine of the weaning rats. *Biosci. Biotechnol. Biochem.* 71: 1345-1347
 111. Murakami, K., Sasaki, S., Takahashi, Y., Uenishi, K., Yamasaki, M., Hayabuchi, H., Goda, T., Oka, J., Baba, K., Ohki, K., Kohri, T., Muramatsu, K., and Furuki, M. (2007): Hardness of the habitual diet in relation to body mass index and waist circumference in free-living Japanese women aged 18-22 years. *Am. J. Clin.*

112. Goda, T., Suruga, K., Komori, A., Kuranuki, S., Mochizuki, K., Makita, Y. and Kumazawa, T. (2007): Effects of miglitol, an α -glucosidase inhibitor, on glycaemic status and histopathological changes in islets in non-obese, non-insulin-dependent diabetic Goto-Kakizaki rats. *Br. J. Nutr.* 98: 702-710
113. Honma, K., Mochizuki, K. and Goda, T. (2007): Carbohydrate/fat ratio in the diet alters histone acetylation on the sucrase-isomaltase gene and its expression in mouse small intestine. *Biochem. Biophys. Res. Commun.* 357: 1124-1129
114. Kasezawa, N., Tohyama, K., Shimada, M., Mochizuki, K. and Goda, T.(2007): Relationship between visceral and subcutaneous fat area measured by abdominal CT scan and various lifestyle-related factors in male subjects undergoing complete medical checkup. *Ningen-dock* 22 (3): 42-49
115. Mochizuki, K., Sakaguchi, N., Takabe, S. and Goda, T. (2007): De-phosphorylation of TR α -1 by p44/42 MAPK inhibition enhances T3-mediated GLUT5 gene expression in the intestinal cell line Caco-2 cells.. *Biochem. Biophys. Res. Commun.* 359: 979-984
116. Ogura, Y., Mochizuki and Goda, T. (2007): Induction of histone acetylation on the CRBP II gene in perinatal rat small intestine. *Biochim. Biophys. Acta* 1770: 1289-1296
117. Shimada, M., Mochizuki, K. and Goda, T. (2007): Dietary supplementation with epigallocatechin gallate elevates the levels of circulating adiponectin in non-obese type 2 diabetic Goto-Kakizaki rats. *Biosci. Biotech. Biochem.* 71: 2079-2082
118. Mochizuki, K., Mochizuki, H., Kawai, H., Ogura, Y., Shimada, M., Takase, S. and Goda, T. (2007): Possible role of fatty acids in milk as the regulator of the expression of cytosolic binding proteins for fatty acid and vitamin A through PPAR α in developing rats. *J. Nutr. Sci. Vitaminol.* 53: 515-521
119. Ogura, Y., Mochizuki, K., Kajigaya, K., Suruga, K., Takase, S., Kagechika, H. and Goda, T. (2007): Effects of all-trans and 9-cis retinoids on C2BBE1 cells. *Vitamin* 81: 483-488
120. Fushimi, T., Suruga, K., Oshima, Y., Fukiharu, M., Tsukamoto, Y. and Goda, T. (2006) Dietary acetic acid reduces serum cholesterol and triacylglycerols in rats fed a cholesterol-rich diet. *Br. J. Nutr.* 95: 916-924
121. Lam, N.V., Chen, W., Suruga, K., Nishimura, N., Goda, T. and Yokogoshi, H. (2006) Enhancing effect of taurine on CYP7A1 mRNA expression in Hep G2 cells. *Amino Acids* 30: 43-48
122. Goda, T., Kajiya, Y., Suruga, K., Tagami, H. and Livesey, G (2006) Availability, fermentability and energy value of resistant maltodextrin: modeling of short-term indirect calorimetry measurements in healthy adults. *Am. J. Clin. Nutr.* 83: 1321-1330
123. Kuranuki, S., Mochizuki, K. and Goda, T. (2006): The dietary sucrose enhances intestinal lactase gene expression in euthyroid rats. *J. Nutr. Sci. Vitaminol.* 52: 347-351
124. Mochizuki, K., Suruga, K., Fukami, H., Kiso, Y., Takase, S. and Goda, T. (2006): Selectivity of fatty acid ligands for PPAR α which correlates both with binding to cis-element and DNA binding-independent transactivity in Caco-2 cells. *Life Sci.* 80: 140-145
125. Chen, W., Suruga, K., Nishimura, N., Goda T., Lam, V.N. and Yokogoshi, H. (2005): Comparative regulation of major enzymes in the bile acid biosynthesis pathway by cholesterol, cholate and taurine in mice and rats. *Life Sci.* 77: 746-757
126. Ogura, Y., Suruga, K., Takase, S. and Goda, T. (2005): Developmental changes of the expression of the genes regulated by retinoic acid in the small intestine of rats. *Life Sci.* 77: 2804-2813
127. Unno, T., Nakakuki, T., Fujimoto, Y., Okada, G, Kainuma, S. and Goda, T. (2005): Industrial production and higher application of functional b-glucooligosaccharides having a bitter taste. *J. Appl. Glycosci.* 52: 59-64
128. Suruga, K., Kitagawa, M., Yasutake, H., Takase, S, and Goda, T. :(2005) Diet-related variation in cellular retinol-binding protein, type II gene expression in rat jejunum. *Br. J. Nutr.* 94: 890-895
129. Ogura Y, Suruga K, Mochizuki H, Yamamoto T, Takase S. and Goda T. (2004): Postnatal changes in gene expression of retinal dehydrogenase and retinoid receptors in liver of rats. *Life Sci.*, 74: 1519-1528
130. Fukushima, A., Goda, T. Motohashi, Y. and Sakuma, K. (2004): The specific expression patterns of

- lactase, sucrase and calbindin-D9k in weaning rats are regulated at the transcriptional level. *J. Nutr. Sci. Vitaminol.* 50: 265-271
131. Sugiyama, M., Wakaki, Y., Nakamoto, N., Koyama, W., Mitsuhashi, F., Inoue, M., Shimizu, R., Hoshino, K., Sato, K., Sugiyama, Y., Suzuki, J., Yasue, C., Fujitani, A., Tsurumi, K., Kawashima, Y., Miyashita, M., Nakamura, T., Tan, A. C., Abe, M., Goda, T. and Hosoya, N. (2003): The study of rice and glycemic index. *Nutr Care Management* 3(1): 1-15
 132. Mochizuki, K., Suruga, K., Sakaguchi, N., Takase, S., Goda, T. (2002): Major intestinal coactivator p300 strongly activates peroxisome proliferator-activated receptor in intestinal cell line, Caco-2. *Gene*, 291: 271-277
 133. Tajima, S., Goda, T. and Takase S. (2001): Co-ordinated induction of β -carotene cleavage enzyme and retinal reductase in duodenum of the developing chicks. *Comp. Biochem. Physiol.* 128B: 425-434
 134. Mochizuki, K., Suruga, K., Kitagawa, M., Takase, S. and Goda, T. (2001): Modulation of the expression of peroxisome proliferator-activated receptor-dependent genes through disproportional expression of two subtypes in the small intestine. *Arch. Biochem. Biophys.* 389:41-48
 135. Mochizuki, K., Suruga, K., Yagi, E., Takase, S. and Goda, T. (2001): The expression of PPAR-associated genes is modulated through postnatal development of PPAR subtypes in the small intestine. *Biochim. Biophys. Acta*, 1531:68-76
 136. Goda, T. (2000): Regulation of the expression of carbohydrate digestion/ absorption-related genes. *Br. J. Nutr.* 84: S245-S248
 137. Takase, S., Suruga, K. and Goda T. (2000): Regulation of vitamin A metabolism-related gene expression. *Br. J. Nutr.* 84: S217-S221
 138. Kishi, K., Takase, S. and Goda, T. (1999) : Enhancement of sucrase-isomaltase gene expression induced by luminally administered fructose in rat jejunum. *J. Nutr. Biochem.* 10: 8-12
 139. Kojima, T., Nishimura, M., Yajima, T., Kuwata, T., Suzuki, Y., Goda, T., Takase, S. and Harada, E. (1999): Developmental changes in the regional Na⁺/ glucose transporter mRNA along the small intestine of suckling rats. *Comp. Biochem. Physiol.* 122B: 89-95
 140. Suruga, K., Mochizuki, K., Kitagawa, M., Goda, T., Horie, N., Takeishi, K. and Takase S. (1999): Transcriptional regulation of cellular retinol-binding protein, type II gene expression in small intestine by dietary fat. *Arch. Biochem. Biophys.* 362: 159-166
 141. Kishi, K., Tanaka, T., Igawa, M., Takase, S. and Goda T. (1999): Sucrase-isomaltase and hexose transporter gene expressions are coordinately enhanced by dietary fructose in rat jejunum. *J. Nutr.* 129: 953-956
 142. Goda, T., Yasutake, H., Tanaka, T. and Takase S. (1999): Lactase-phlorizin hydrolase and sucrase-isomaltase genes are expressed differently along the villus-crypt axis of rat jejunum. *J. Nutr.* 129: 1107-1113
 143. Suruga, K., Mochizuki, K., Suzuki, R., Goda, T. and Takase, S. (1999): Regulation of cellular retinol-binding protein type II gene expression by arachidonic acid analogue and 9-cis retinoic acid in caco-2 cells. *Eur. J. Biochem.* 262: 70-78
 144. Tajima, S., Goda, T. and Takase, S. (1999): Coordinated distribution patterns of three enzyme activities involved in the absorption and metabolism of β -carotene and vitamin A along the villus-crypt axis of chick duodenum. *Life Sci.* 65: 841-848
 145. Tajima, S., Suruga, K., Goda, T. and Takase, S. (1999): Developmental induction and villus-crypt distribution of retinol esterifying enzyme activities in chick duodenum. *J. Nutr. Sci. Vitaminol.* 45: 725-732
 146. Yamamoto, T., Unno, T., Sugawara, M. and Goda, T. (1999): Properties of a nigerosylmaltooligosaccharides-supplemented syrup. *J. Appl. Glycosci.* 46: 475-482
 147. Suzuki, R., Suruga, K., Goda, T. and Takase, S. (1998) : Peroxisome proliferator enhances gene expression of cellular retinol-binding protein, type II in Caco-2 cells. *Life Sci.* 62: 861-870

148. Takase, S., Tanaka, K., Suruga, K., Kitagawa, M., Igarashi, M. and Goda, T. (1998): Dietary fatty acids are possible key determinants of cellular retinol-binding protein, type II gene expression. *Am. J. Physiol.* 274: G626-G632
149. Tanaka, T., Kishi, K., Igawa, M., Takase, S. and Goda, T. (1998) : Dietary carbohydrates enhance lactase-phlorizin hydrolase gene expression at a transcription level in rat jejunum. *Biochem. J* 331 : 225-230
150. Goda, T., Kishi, K., Ezawa, I. and Takase, S. (1998) : The maltitol-induced increase in intestinal calcium transport increases the calcium content and breaking force of femoral bone in weanling rats. *J. Nutr.* 128: 2028-2031
151. Fukahori, M., Sakurai, H., Akatsu, S., Negishi, M., Sato, H., Goda, T. and Takase, S. (1998) : Enhanced absorption of calcium after oral administration of maltitol in the rat intestine. *J. Pharm. Pharmacol.* 50: 1227-1232
152. Kojima, T., Nishimura, M., Yajima, T., Kuwata, T., Suzuki, Y., Goda, T., Takase, B. and Harada, E. (1998) : Effect of intermittent feeding on the development of disaccharidase activities in artificially reared rat pups. *Comp. Biochem. Biophys.* 121A: 289-297
153. Shimoi, K., Okada, H., Furugori, M., Goda, T., Takase, S., Suzuki, M., Hara, Y., Yamamoto, H. and Kinai N. (1998): Intestinal absorption of luteolin and luteolin 7-O-beta-glucoside in rats and humans. *FEBS Lett.* 438: 220-224
154. Suruga, K., Goda, T., Igarashi, M., Kato, S., Masushige, S. and Takase, S. (1997) : Cloning of chick cellular retinol-binding protein, type II and comparison to that of some mammals: expression of the genes at different developmental stages, and possible involvement of RXRs and PPAR. *Comp. Biochem. Physiol.* 118A: 859-869
155. Tanaka, T., Takase, S. and Goda, T. (1997): A possible role of a nuclear factor NF-LPH1 in the gene expression of lactase-phlorizin hydrolase along the small intestine. *J. Nutr. Sci. Vitaminol.* 43: 565-573
156. Takase, S. and Goda, T. (1997): Physiological roles of cellular retinol-binding protein, type II and regulation of its gene expression in small intestine. *Vitamins* 71: 273-283
157. Okuno, M., Kajiwara, K., Imai, S., Kobayashi, T., Honma, N., Maki, T., Suruga, K., Goda, T., Takase, S., Muto, Y. and Moriwaki, H. (1997) : Perilla oil prevents the excessive growth of visceral adipose tissue in rats by down-regulating adipocyte differentiation. *J. Nutr.* 127: 1752-1757
158. Takase, S., Suruga, K., Suzuki, R. and Goda, T. (1996) : Relationship between perinatal appearance of cellular retinol-binding protein, type II and retinal reductase activity in chick liver. *Life Sci.* 58: 134-144
159. Takase, S., Matsumoto, Y. and Goda, T. (1996) : Lack of lecithin: retinol acyltransferase activity in chick lungs. *J. Nutr. Sci. Vitaminol.* 42: 267-275
160. Kishi, K., Goda, T. and Takase, S. (1996) : Maltitol increases transepithelial diffusional transfer of calcium in rat ileum. *Life Sci.* 59: 1133-1140
161. Goda, T., Yasutake, H., Suzuki, Y., Takase, S. and Koldovsky, O. (1995) : Diet-induced changes in gene expression of lactase in rat jejunum. *Am. J. Physiol.* 268: G1066-G1073
162. Suruga, K., Suzuki, R., Goda, T. and Takase, S. (1995) : Unsaturated fatty acids regulate gene expression of cellular retinol-binding protein, type II in rat jejunum. *J. Nutr.* 125: 2039-2044
163. Suzuki, R., Goda, T., and Takase, S. (1995) : Consumption of excess Vitamin A, but not excess β -caroten, causes accumulation of retinol that exceeds the binding capacity of cellular retinol-binding protein, type II in rat intestine. *J. Nutr.* 125: 2074-2082
164. Goda, T., Suruga, K., Takase, S., Ezawa, I. and Hosoya, N. (1995) : Dietary maltitol increases calcium content and breaking force of femoral bone in ovariectomized rats. *J. Nutr.* 125: 2869-2873
165. Takase, S., Goda, T. and Watanabe, M. (1994) : Monostearoylglycerol-starch complex: Its digestibility and effects on glycemic and lipogenic responses. *J. Nutr. Sci. Vitaminol.* 40: 23-36
166. Goda, T., Urakawa, T., Watanabe, M. and Takase, S. (1994): Effect of high-amylose starch on carbohydrate

- digestive capability and lipogenesis in epididymal adipose tissue and liver of rats. *J. Nutr. Biochem.* 5: 256-260
167. Takase, S., Mineharu, T., Suruga, K., Suzuki, R. and Goda, T. (1994) : Amount and quality of dietary protein regulate lecithin: retinol acyltransferase activity without change in cellular retinol-binding protein, type two in rat jejunum.. *J. Nutr. Biochem.* 5: 197-203
168. Goda, T., Yasutake, H. and Takase, S. (1994) : Dietary fat regulates cellular retinol-binding protein II gene expression in rat jejunum. *Biochim. Biophys. Acta* 1200: 34-40
169. Goda, T. and Takase, S. (1994) : Dietary carbohydrate and fat independently modulate disaccharidase activities in rat jejunum. *J. Nutr.* 124: 2233-2239
170. Goda, T. and Takase, S. (1994) : Effect of dietary fat content on microvillus in rat jejunum. *J. Nutr. Sci. Vitaminol.* 40: 127-136
171. Yasutake, H., Goda, T., and Takas, S. (1994) : Dietary regulation of sucrase-isomaltase gene expression in rat jejunum. *Biochim. Biophys. Acta* 1243: 270-276
172. Takase, S., Goda, T. and Shinohara, H. (1993) : Adaptive changes of intestinal cellular retinol-binding protein, type two following jejunum-bypass operation in the rat. *Biochim. Biophys. Acta* 1156: 223-231
173. Goda, T., Furuta, S. and Takase, S. (1993) : Dietary vitamin A modulates lecithin-retinol acyltransferase activity in developing chick intestine. *Biochim. Biophys. Acta* 1168: 153-157
174. Shinohara, H., Goda, T., Takase, S. and Sugawa-Katayama, Y. (1993) : Feeding medium-chain triglycerides to rats decreases degradation of sucrase-isomaltase complex in the jejunum. *J. Nutr.*, 123: 1161-1167
175. Noda, S. and Goda, T. (1993) : Immunoelectron microscopic localization of sucrase-isomaltase in rat small intestine. *J. Nutr. Sci. Vitaminol.* 39: 201-205
176. Noda, S. and Goda, T. (1993) : Immunoelectron microscopic localization of lactase-phlorizin hydrolase in rat small intestine. *J. Nutr. Sci. Vitaminol.* 39: 373-379
177. Goda, T., Pacifici, M. and Takase, S. (1993) : Induction and distribution of cellular retinol-binding protein, type two during villus-crypt development in the chick duodenum. *Biol. Neonate* 64: 392-398
178. Goda, T., Takase, S. and Hosoya, N. (1993) : Maltitol-induced increase of transepithelial transport of calcium in rat small intestine. *J. Nutr. Sci. Vitaminol.* 39: 589-595
179. Goda, T., Takase, S., Ohishi, K. and Makita, K. (1993): Levels of consumption of and preference for milk by sex and age. *Jpn. J. Nutr.* 51: 235-241
180. Samulitis- Dos Santos, B. K., Goda, T. and Koldovsky, O. (1992) : Dietary-induced increases of disaccharidase activities in rat jejunum. *Br. J. Nutr.* 67: 267-278
181. Takase, S., Goda, T., Yokogoshi, H. and Hoshi, T. (1992): Changes in vitamin A status following prolonged immobilization (simulated weightlessness). *Life Sci.* 51: 1459-1466
182. Goda, T., Yamada, M., Takase, S. and Hosoya, N. (1992) : Effect of maltitol intake on intestinal calcium absorption in the rat. *J. Nutr. Sci. Vitaminol.* 38: 277-286
183. Shinohara, H., Goda, T. and Takase, S. (1992) : Decrease of lactase activity in the small intestine of jejunum-bypassed rats. *J. Nutr. Sci. Vitaminol.* 38: 365-374
184. Shinohara, H., Goda, T. and Takase, S. (1991) : Degradation of sucrase-isomaltase in the ileum of jejunum-bypassed rats. *Biochem. J.* 276: 563-566
185. Goda, T., Takase, S., Yokogoshi, H., Mita, T., Isemura, H. and Hoshi, T. (1991) : Changes in hepatic metabolism through simulated weightlessness: decrease of glycogen and increase of lipids following prolonged immobilization in the rat. *Res. Exp. Med.* 191: 189-199
186. Takase, S., Goda, T., Yokogoshi, H. and Hoshi, T. (1991) : Effects of various dietary protein contents on vitamin A status of rats exposed to prolonged immobilization through suspension. *J. Nutr. Sci. Vitaminol.* 37: 443-452
187. Goda, T., Takase, S., Yokogoshi, H. and Hoshi, T. (1991): Carbohydrate digestive capability in jejunum of

- rats subjected to simulated weightlessness. *J. Nutr. Biochem.* 3: 172-175
188. Esaki, S., Goda, T., Takase, S., Sugiyama, N. and Kamiya, S. (1991) : Synthesis of phloretin 2'-O- β -L-glycosides and their inhibitory action against sugar transport in rat small intestine. *Agric. Biol. Chem.* 55: 2855-2860
 189. Yokogoshi, H., Goda, T., Takase, S., Yamaguchi, M. and Hoshi, T. (1991) : Effect of suspension hypokinesia/ hypodynamia on Ca metabolism of rats fed with various protein concentrations. *Agric. Biol. Chem.* 55: 3085-3089
 190. Goda, T., Takase, S., and Hosoya, N. (1991): Hydrolysis of palatinose condensates by rat intestinal disaccharidases. *J. Jpn. Soc. Nutr. Food Sci.* 44: 395-398
 191. Takase, S. and Goda, T. (1990) : Effects of medium-chain triglycerides on brush border membrane-bound enzyme activity in rat small intestine. *J. Nutr.* 120: 969-976
 192. Takase, S. and Goda, T. (1990) : Developmental changes in vitamin A level and lack of retinyl palmitate in chick lungs. *Comp. Biochem. Physiol.* 96B: 415-419
 193. Yokogoshi, H., Takase, S., Goda, T. and Hoshi, T. (1990) : Effects of suspension hypokinesia/ hypodynamia on the body weight and nitrogen balance in rats fed with various protein concentrations. *Agric. Biol. Chem.* 54: 779-789
 194. Yokogoshi, H., Mita, T., Takase, S., Goda, T. and Hoshi, T. (1990) : Effects of suspension hypokinesia/ hypodynamia on morphometric measurements of rat muscle fibers. *Agric. Biol. Chem.* 54: 2127-2131
 195. Flores, C. A., Bezerra, J., Bustamante, S. A., Goda, T., MacDonald, M. P., Kplan, M. L. and Koldovsky, O. (1990) : Age-related changes in sucrase and lactase activity in the small intestine of 3-and 10-week-old obese mice (C57 BL/6J obob). *J. Am. Col. Nutr.* 9: 261-266
 196. Takase, S. and Goda, T. (1990): Effects of hydrocortisone and vitamin D₃ on fatty acid composition of duodenal brush border membrane in chick embryos. *J. Jpn. Soc. Nutr. Food Sci.* 43: 133-138
 197. Goda, T., and Takase, S. (1989) : Purification, properties and developmental changes of cellular retinol-binding protein (type II) , in chicken intestine. *J. Nutr. Sci. Vitaminol.* 35: 545-557
 198. Goda, T., Takase, S. and Hosoya, N. (1988) : Hydrolysis of α -D-glucopyranosyl-1,6-sorbitol and α -D-glucopyranosyl-1,6-mannitol by rat intestinal disaccharidases. *J. Nutr. Sci. Vitaminol.* 34: 131-140
 199. Goda, T., Quaroni, A. and Koldovsky, O. (1988) : Characterization of degradation process of sucrase-isomaltase in rat jejunum with monoclonal-antibody-based enzyme-linked immunosorbent assay. *Biochem. J.* 250: 41-46
 200. Goda, T., Raul, F., Gosse, F. and Koldovsky, O. (1988) : Effects of a high-protein, low-carbohydrate diet on degradation of sucrase-isomaltase in rat jejunum. *Am. J. Physiol.* 254: G907-G912
 201. Flores, C. A., Brannon, P. M., Bustamante, S. A., Bezerra, J., Butler, K. T., Goda, T., and Koldovsky, O. (1988) : Effect of diet on intestinal and pancreatic enzyme activities in the pig. *J. Pediatr. Gastroenterol. Nutr.* 7: 914-921
 202. Lee, S. M., Bustamante, S., Flores, S., Bezerra, J., Goda, T., and Koldovsky, O. (1987) : Chronic effects of an α -glucosidase inhibitor (Bay O1248) on intestinal disaccharidase activity in normal and diabetic mice. *J. Pharm. Exer. Thera.* 240: 132-137
 203. Thornburg, W., Grimes, J., Goda, T., Bustamante, S., Pollack, P. F. and Koldovsky, O. (1987): The response of activity of jejunal disaccharidases and pancreatic amylase in young and middle aged rats to a high carbohydrate diet. *J. Nutr.* 117: 63-69
 204. Pollack, P. F., Goda, T., Colony, P. C., Edmond, J., Thornburg, W., Korc, M. and Koldovsky, O. (1987) : Effects of enterally fed epidermal growth factor on the small and large intestine of the suckling rat. *Regul. Peptides* 17: 121-132
 205. Raul, F., Goda, T., Gosse, F. and Koldovsky, O. (1987) : Short-term effect of a high-protein/ low-carbohydrate diet on aminopeptidase in adult rat jejunum-ileum. Site of aminopeptidase response. *Biochem. J.* 247: 401-405

206. Samulitis, B. K. Goda, T., Lee, S. M. and Koldovsky, O. (1987) : Inhibitory mechanism of acarbose and 1-deoxynojirimycin derivatives on carbohydrases in rat small intestine. *Drugs Exptl. Clin. Res.* 13: 517-524
207. Leichter, J., Goda, T. and Koldovsky, O. (1987) : Dependency of lactose absorption on lactase activity in starved rats. *Can. J. Physiol. Pharmacol.* 65: 2287-2290
208. Bustamante, S., Goda, T., and Koldovsky, O. (1986) : Dietary regulation of intestinal glucohydrolases in adult rats: comparison of the effect of solid and liquid diets containing glucose polymers, starch, or sucrose. *Am. J. Clin. Nutr.* 43: 891-897
209. Flores, C. A., Bezerra, J., Goda, T., Bustamante, S., MacDonald, M. P., Kaplan, M. and Koldovsky, O. (1986) : Effect of a high dextrose diet on sucrase and lactase activity in jejunum of obese mice (C57 BL/6J obob) . *Am. J. Col. Nutr.* 5: 565-575
210. Goda, T., Yamada, K., Bustamante, S., Edmond, J., Grimes, J. and Koldovsky, O. (1985) : Precocious increase of sucrase activity in the small intestine of suckling rats by carbohydrates. I. Significance of the stress effect of sugar induced diarrhea. *J. Pediatr. Gastroenterol. Nutr.* 4: 468-475
211. Goda, T., Bustamante, S., Edmond, J., Grimes, J. and Koldovsky, O. (1985) : Precocious increase of sucrase activity in the small intestine of suckling rats by carbohydrates. II. Role of digestibility of sugars, osmolality and stomach evacuation in producing diarrhea. *J. Pediatr. Gastroenterol. Nutr.* 4: 634-638
212. Goda, T., and Koldovsky, O. (1985) : Evidence of degradation process of sucrase-isomaltase in jejunum of adult rats. *Biochem. J.* 229: 751-758
213. Goda, T., Bustamante, S. and Koldovsky, O. (1985) : Dietary regulation of intestinal lactase and sucrase in adult rats: quantitative comparison of effect of lactose and sucrose. *J. Pediatr. Gastroenterol. Nutr.* 4: 998-1008
214. Goda, T., Bustamante, S., Thornburg, W. and Koldovsky, O. (1984) : Dietary-induced increase in lactase activity and in immunoreactive lactase in adult rat jejunum. *Biochem. J.* 221: 261-263
215. Goda, T., Bustamante, S., Grimes, J. and Koldovsky, O. (1984) : Dietary induced increase of lactase activity in adult rats is independent of adrenals. *Experientia* 40: 1287-1288
216. Leichter, J., Goda, T., Bhandari, S.D., Bustamante, B. and Koldovsky, O. (1984) : Relation between dietary-induced increase of intestinal lactase activity and lactose digestion and absorption in adult rats. *Am. J. Physiol.* 247: G729-G735
217. Yamada, K., Sasaki, M., Goda, T., Hosoya, N. and Moriuchi, (1984): Relation between N-methyl-N'-nitro-N-nitrosoguanidine induced intestinal metaplasia and tumor in rat stomach and dietary carbohydrate. *J. Jpn. Soc. Nutr. Food Sci.* 37: 369-372
218. Goda, T., Hosoya, N. and Moriuchi, S. (1983): Changes of the activity and content of sucrase-isomaltase complex in the intestinal mucosa during the development of streptozotocin-induced diabetes in rats. *J. Nutr. Sci. Vitaminol.* 29: 571-578
219. Yamada, K., Goda, T., Bustamante, S. and Koldovsky, O. (1983): Different effect of starvation on activity of sucrase and lactase in rat jejunum. *Am. J. Physiol.* 244: G449-G455
220. Goda, T., Yamada, K., Bustamante, S. and Koldovsky, O. (1983) : Dietary-induced rapid decrease of microvillar carbohydrase activity in rat jejunum. *Am. J. Physiol.* 245: G418-G423
221. Goda, T. and Hosoya, N. (1983): Hydrolysis of palatinose by rat intestinal sucrase-isomaltase complex. *J. Jpn. Soc. Nutr. Food Sci.* 36: 169-173
222. Goda, T., Yamada, K., Sugiyama, M., Moriuchi, S. and Hosoya, N. (1982): Effect of sucrose and acarbose feeding on the development of streptozotocin-induced diabetes in the rat. *J. Nutr. Sci. Vitaminol.* 28: 41-56
223. Goda, T., Sugiyama, M., Hosoya, N. and Moriuchi, S. (1982): Effects of the feeding of acarbose on the development of diabetes induced by streptozotocin in rats. *J. Jpn. Soc. Nutr. Food Sci.* 35: 339-344
224. Moriuchi, S., Bunya, Y., Endo, A., Kamai, K., Yoshizawa, S., Goda, T. and Hosoya, N. (1982): The effects of alpha-glucosidase inhibitor (acarbose) feeding on rat intestinal disaccharidases. *J. Jpn. Soc. Nutr. Food Sci.* 35: 351-355
225. Yamada, K., Goda, T., Moriuchi, S. and Hosoya, N. (1981): Hydrolysis of glucosyl-sucrose and maltosyl-sucrose by

- rat intestinal disaccharidases. *J. Jpn. Soc. Nutr. Food Sci.* 34: 133-137
226. Goda, T., Yamada, K., Hosoya, N. and Moriuchi, S. (1981): Effects of alpha-glucosidase inhibitor BAY g 5421 on rat intestinal disaccharidases. *J. Jpn. Soc. Nutr. Food Sci.* 34: 139-147
227. Yamada, K., Goda, T., Sasaki, H., Moriuchi, S. and Hosoya, N. (1980) : Effect of food restriction on intestinal disaccharidases in streptozotocin-induced diabetes of rat. *J. Nutr. Sci. Vitaminol.* 26: 599-606
228. Sasaki, M., Yamada, K., Goda, T., Moriuchi, S. and Hosoya, N. (1980): The diurnal rhythms of intestinal digestive enzymes in diabetic rat. *J. Jap. Soc. Nutr. Food Sci.* 33: 185-189