

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
- 2007-2021 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
- 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
- 2017-2021 Vice President, The University of Shizuoka
- 2021-present Professor, School of Food and Nutritional Sciences, and Graduate School of Nutritional and Environmental Sciences, The University of Shizuoka

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. Mannen, R., Yasuda, M. T., Sano, A., Goda, T., Shimoi, K., Ichikawa, Y. (2021): Effect of flavonoid-rich meals and low-flavonoid meals based on the dietary reference intakes for Japanese, using basic foodstuffs on the gene expression of inflammatory cytokines in the whole blood cells from adult men of normal or light overweight. *Functional Foods in Health and Disease*, 11 (2): 56-73.
2. Honma, K., Jin, F., Tonaka, R., Sabashi, T., Otsuki, N., Ichikawa, Y., Goda, T. (2020): Changes in peripheral inflammation-related gene expression by postprandial glycemic response in healthy Japanese men. *Nutrition*, Article No. 111026
3. Honma, K., Oshima, K., Takami, S., Goda, T. (2020): Regulation of hepatic genes related to lipid metabolism and antioxidant enzymes by sodium butyrate supplementation. *Metabolism Open*, Article No.100043
4. Honma, K., Machida, C., Mochizuki, K., Goda, T. (2020): Glucose and TNF enhance expression of *TNF* and *IL1B*, and histone H3 acetylation and K4/K36 methylation, in juvenile macrophage cells. *GENE: X* Article No.100034 Doi: 10.1016/j.gene.2020.100034
5. Rosas-Perez, A. M., Honma, K., Goda, T. (2020): Sustained effects of resistant starch on the expression of genes related to carbohydrate digestion/absorption in the small intestine. *Int. J. Food Sci. Nutr.*, 10: 1-9. Doi: 1080/09637486.2019.1711362. [Epub ahead of print]
6. Rosas-Perez, A. M., Honma, K., Goda, T. (2020): Epigenetic regulation of resistant starch in the expression of genes related to the absorption/digestion of carbohydrates. *Curr Stud Nutr & Food Sci.*, 1: 1-16.
7. Mochizuki, K., Tan, Y., Uchiyama, Y., Suzuki, T., Hariya, N., Goda, T. (2019): Supplementation with lower doses of EGCg reduces liver injury markers of type 2 diabetic rats. *Fundam. Toxicol. Sci.*, 6: 15-23.
8. Inoue, T., Hariya, N., Inamochi, Y., Dey, A., Ozato, K., Goda, T., Kubota, T., Mochizuki, K. (2019): Epigenetic regulation of lipoprotein lipase gene via BRD4, which is potentially associated with adipocyte differentiation and insulin resistance. *Eur. J. Pharmacol.*, 858, 172492.
9. Mannen, R., Yasuda, M., Sano, A., Goda, T., Shimoi, K., Ichikawa, Y. (2019): Changes in plasma concentration of flavonoids after ingestion of a flavonoid-rich meal prepared with basic foodstuffs. *Functional Foods in Health and Disease*, 9: 558-578.
10. Jin, F., Honma, K., Mochizuki, K., Goda, T. (2019): Undernutrition in pregnant rats induces glucose intolerance with enhanced expression of inflammation-related genes in peripheral leukocytes of the offspring. *J. Nutr. Sci. Vitaminol.*, 65, 534-540. doi: 10.3177/jnsv.65.534.
11. Yamauchi, H., Honma, K., Mochizuki, K., Goda, T. (2018): Regulation of the circadian rhythmic expression of Sglt1 in the mouse small intestine through histone acetylation and the mRNA elongation factor, BRD4-P-TEFb. *Biosci. Biotechnol. Biochem.*, 82: 1176-1179. doi: 10.1080/09168451.2018.1451743.
12. Goda, T., Honma, K. (2018): Molecular regulations of mucosal maltase expressions. *J. Pediatr. Gastroenterol. Nutr.*, 66 (suppl 3): S14-S17. doi: 10.1097/MPG
13. Mochizuki, K., Osaki, A., Inamochi, Y., Goda, T. (2018): The induction of histone H3 K4 methylation on the *SI* gene correlates with *SI* mRNA levels in enterocyte-like Caco-2 cells. *OBM Genetics* 2 (4), : doi:10.21926/obm.genet.1804046
14. Honma, K., Kamikubo, M., Mochizuki, K., Goda, T. (2017): Insulin-induced inhibition of gluconeogenesis genes, including glutamic pyruvic transaminase 2, is associated with reduced histone acetylation in a human liver cell line. *Metabolism*, 71: 118-124. doi: 10.1016/j.metabol.2017.03.009.
15. Taguchi, C., Kishimoto, Y., Fukushima, Y., Saita, E., Tanaka, M., Takahashi, Y., Masuda, Y., Goda, T., Kondo, K. (2017): Dietary polyphenol intake estimated by 7-day dietary records among Japanese male workers: Evaluation of the within- and between-individual variation. *J. Nutr. Sci. Vitaminol.*, 63, 180-185. doi: 10.3177/jnsv.63.180.
16. Inoue, M., Senoo, N., Sato, T., Nishimura, Y., Nakagawa, T., Miyoshi, N., Goda, T., Morita, A., Miura, S. (2017): Effects of the dietary carbohydrate-fat ratio on plasma phosphatidylcholine profiles in human and mouse. *J. Nutr. Biochem.*, 50, 83-94. doi: 10.1016/j.jnutbio.2017.08.018.
17. Sakurai, N., Inamochi, Y., Inoue, T., Hariya, N., Kawamura, M., Yamada, M., Dey, A., Nishiyama, A., Kubota, T.,

- Ozato, K., Goda, T., Mochizuki, K. (2017): BRD4 regulates adiponectin gene induction by recruiting the P-TEFb complex to the transcribed region of the gene. *Sci. Rep.*, 7: 11962. doi: 10.1038/s41598-017-12342-2.
18. Taguchi, C., Kishimoto, Y., Kondo, K., Tohyama, K., Goda, T. (2017): Serum gamma-glutamyltransferase is inversely associated with dietary total and coffee-derived polyphenol intakes in apparently healthy Japanese men. *Eur. J. Nutr.*, 57: 2819-2826. doi: 10.1007/s00394-017-1549-1.
 19. Yamakawa-Kobayashi, K., Otagi, E., Ohhara, Y., Goda, T., Kayashima, Y. (2017): The combined effects of genetic variation in the CNDP1 and CNDP2 genes and dietary carbohydrate and carotene intake on obesity risk. *J. Nutrigenet. Nutrigenomics*, 10: 146-154. doi: 10.1159/000485798.
 20. 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
 21. 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
 22. 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
 23. 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
 24. 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
 25. 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
 26. 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
 27. 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
 28. 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
 29. 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
 30. 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
 31. 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
 32. 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
 33. 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
 34. 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
35. 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
 36. 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
 37. 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)
 38. 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
 39. 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
 40. 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
 41. 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
 42. 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
 43. 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
 44. 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
 45. 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
 46. 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
 47. 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
 48. 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
 49. 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
 50. 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
 51. 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:

52. 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
53. 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
54. 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
55. 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
56. Sunto, A., Mochizuki, K., Miyauchi, R., Misaki, Y., Shimada, M., Kasezawa, N., Tohyama, K., Goda, T. (2013): Serum g-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.
57. 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.
58. Yamazaki, J., Mochizuki, K., Miyauchi, R., Ichikawa, Y., Goda, T. (2013): Circulating interleukin-1 β concentrations are independently-positively associated with g-glutamyltransferase activity within the normal range in middle-aged apparently healthy Japanese women. *J. Nutr. Sci. Vitaminol.*, 59, 526-532.
59. 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.
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61. 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.
62. 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.
63. 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.
64. 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-1b concentrations in Japanese men not being treated for metabolic diseases. *Nutrition*, 28: 978-983
65. 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 b gene activation by thyroid hormone in *Rana catesbeiana* tadpole liver. *Biochem. Biophys. Res. Commu.* 417: 1069-1073
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68. 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. Commu.*, 420: 845-850

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71. 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
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74. Mochizuki, K., Misaki, Y., Miyauchi, R., Takabe, S., Shimada, M., Miyoshi, N., Ichikawa, Y., Goda, T. (2011): Circulating interleukin-1b and interleukin-6 concentrations are closely associated with g-glutamyltranspeptidase activity in middle-aged Japanese men without obvious cardiovascular diseases. *Metabolism*, 60: 914-922
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77. 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. Commu.*, 404: 223-227
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