

Name in Full Toshio Hayashi
Sex Male
Age 57
Date and Place of Birth 26-06-58, Gifu Pref. Japan
Nationality Japan
Current Employment Professor
 Nagoya Univ. Graduate Sch. of Medicine, School of Health Sciences
 65 Tsuruma-cho, Showa-ku, Nagoya JAPAN 466-8550

Educational Background

Shinsyu Univ.Sch.of Med. 1978-1984 MD
Nagoya Univ.Sch.of Med. 1986-1990 PhD
UCLA Sch.of Med.(Prof. Ignarro LJ, Nobel Laureate 1997) 1991-1992 Post.Doc.Fellow

Academic Society

- 1) Japanese Gerontology Society Councilor
 Chief of the secretariat of annual meeting 2003
 Member of the future planning of society
- 2) Japanese Atherosclerosis Society Councilor
- 3) Nitric Oxide Society of Japan Councilor
 Member of Program committee 3rd International NO meeting 2004
- 4) Japanese Endocrinology Society Councilor
- 5) Japanese Cardiovascular Endocrinology Society Councilor
- 6) Japanese Circulation Society Councilor
- 7) Japanese Heart Association Fellow
- 8) Japanese Diabetes Association Fellow
- 9) American Heart Association Arteriosclerosis and Thrombosis
 Fellow

Prize

Novartis Foundation of Gerontological Research co-supported by the Japan Geriatrics Society
1995 and 2007
The Prize from the Japanese Society of Circulation Research 1997

Publication List (Past 7 years)

1: Cho KI, Sakuma I, Sohn IS, Hayashi T, Shimada K, Koh KK. Best Treatment Strategies With Statins to Maximize the Cardiometabolic Benefits. Circ J. 2018 23;82:937-943.

- 2: Tsuboi T, Maeda M, Hayashi T. Administration of L-arginine plus L-citrulline or L-citrulline alone successfully retarded endothelial senescence. *PLoS One*. 2018;13:e0192252.
- 3: Koh KK, Sakuma I, Shimada K, Hayashi T, Quon MJ. Combining Potent Statin Therapy with Other Drugs to Optimize Simultaneous Cardiovascular and Metabolic Benefits while Minimizing Adverse Events. *Korean Circ J*. 2017;47:432-439.
- 4: Suzuki T, Morita M, Hayashi T, Kamimura A. The effects on plasma L-arginine levels of combined oral L-citrulline and L-arginine supplementation in healthy males. *Biosci Biotechnol Biochem*. 2017;81:372-375.
- 5: Oh PC, Sakuma I, Hayashi T, Koh KK. Angiotensin converting enzyme inhibitors remain the first treatment of choice. *Korean J Intern Med*. 2016;31:237-41.
- 6: Hirano A, Umegaki H, Suzuki Y, Hayashi T, Kuzuya M. Effects of leisure activities at home on perceived care burden and the endocrine system of caregivers of dementia patients: a randomized controlled study. *Int Psychogeriatr*. 2016;28:261-8. doi: 10.1017/S1041610215001295.
- 7: Koh KK, Oh PC, Sakuma I, Kim EY, Lee Y, Hayashi T, Han SH, Park YM, Shin EK. Vascular and metabolic effects of ezetimibe combined with simvastatin in patients with hypercholesterolemia. *Int J Cardiol*. 2015;199:126-31.
- 8: Hattori Y, Hattori K, Hayashi T. Pleiotropic benefits of metformin: macrophage targeting its anti-inflammatory mechanisms. *Diabetes*. 2015;64:1907-9.
- 9: Maeda M, Hayashi T, Mizuno N, Hattori Y, Kuzuya M. Intermittent high glucose implements stress-induced senescence in human vascular endothelial cells: role of superoxide production by NADPH oxidase. *PLoS One*. 2015 16;10:e0123169.
- 10: Koh KK, Sakuma I, Hayashi T, Kim SH, Chung WJ. Renin-angiotensin system inhibitor and statins combination therapeutics - what have we learnt? *Expert Opin Pharmacother*. 2015;16:949-53.
- 11: Hayashi T, Kotania H, Yamaguchi T, Taguchi K, Iida M, Ina K, Maeda M, Kuzuya M, Hattori Y, Ignarro LJ. Endothelial cellular senescence is inhibited by liver X receptor activation with an additional mechanism for its atheroprotection in diabetes. *Proc Nat Acad Sci USA* 2014; 111:1168-1173,
12. Hayashi T, Yamaguchi T, Taguchi K, Ina K, Maeda M, Sakakibara Y, Kuzuya M, Hattori Y. eNOS- Dependent Anti-senescence Effect of the Calcium Channel Blocker Nifedipine in Human Endothelial Cells. *PLOS ONE* 2014;9:e88391-7
- 13: Hayashi T, Kubota K, Kawashima S, Sone H, Watanabe H, Ohru T, Yokote K, Takemoto M, Araki A, Noda M, Noto H, Sakuma I, Yoshizumi M, Ina K, Nomura H; Japan CDM group. Efficacy of HMG-CoA reductase inhibitors in the prevention of cerebrovascular attack in 1016 patients older than 75 years among 4014 type 2 diabetic individuals. *Int J Cardiol* 2014;177:860-866
- 14: Morita M, Hayashi T, Ochiai M, Maeda M, Yamaguchi T, Ina K, Kuzuya M. Oral supplementation with a combination of L-citrulline and L-arginine rapidly increases plasma L-arginine concentration and enhances NO bioavailability. *Biochem Biophys Res Commun*. 2014;454:53-7
- 15: Hayashi T, Kawashima S, Nomura H, Itoh H, Watanabe H, Ohru T, Yokote K, Sone H, Hattori Y, Yoshizumi M, Ina K, Kubota K; Japan Cholesterol and Diabetes Mellitus Investigation Group. Metabolic predictors of ischemic heart disease and cerebrovascular attack in elderly diabetic individuals: difference in risk by age. *Cardiovascular Diabetology* 2013;12:10-18.

- 16: Ina K, Hayashi T, Araki A, Kawashima S, Sone H, Watanabe H, Ohru T, Yokote K, Takemoto M, Kubota K, Noda M, Noto H, Ding QF, Zhang J, Yu ZY, Yoon BK, Nomura H, Kuzuya M; Japan CDM Group. Importance of high-density lipoprotein cholesterol levels in elderly diabetic individuals with type IIb dyslipidemia: A 2-year survey of cardiovascular events. *Geriatr Gerontol Int.* 2013;13:108-114
- 17: Umegaki H, Hayashi T, Nomura H, Yanagawa M, Nonogaki Z, Nakshima H, Kuzuya M. Cognitive dysfunction: an emerging concept of a new diabetic complication in the elderly. *Geriatr Gerontol Int.* 2013;13:28-34
- 18: Hayashi T. Risk Factor of Cardiovascular Diseases: Primary Prevention: Chapter 2 Aging, Wakabayashi T and Kolb-Bachofen V eds. Elsevier. PP.11-22, 2013
- 19: Hayashi T. Risk Factor of Cardiovascular Diseases: Primary Prevention: Chapter 3 Gender Wakabayashi T and Kolb-Bachofen V eds. Elsevier pp23-32, 2013
- 20: Hayashi T, et al. The effect of HMG-CoA reductase inhibitor of ischemic heart disease and cerebro-vascular attack in elderly diabetic individuals: difference in risk by age. *Diabetologia* 56 s1 S531
- 21: Ochiai M, Hayashi T et al. Short-term effects of L-citrulline on arterial stiffness in aged men. *Int. J. Cardiol.* 155:257- 61 :2012
- 22: Arai H, Hayashi T, et al. Management of type IIb dys- lipidemia *J Athoersclero Thromb.* 2012;19:105-114
- 23: Yokoyama S, Hayashi T et al. Background to discuss guidelines for control of plasma HDL-cholesterol in Japan: A revised edition of the report of Research Group for Primary Hyperlipidemia Management. *J Athoersclero Thromb.* 2012;19:207-12
- 24: Gotoda T, Hayashi T, et al. The Research Committee for Primary Hyperlipidemia, on Measures against Intractable Diseases by Japan Ministry of Health, Labor & Welfare. Management of type I & V hyperlipidemia *J Athero Thromb.* 2012;19:1-12
- 25: Hayashi T, et al. Life style related diseases: dyslipidemia and gender differences for Fellow of the Japanese Society of Internal Medicine (FJSIM) *Journal of the Japanese Society of Internal Medicine* 2012;101, 2342-9
- 26: Sone H, Hayashi T et al. as JDCS Group. Comparison of various lipid variables as predictors of coronary heart disease in Japanese with type 2 diabetes: subanalysis of the Japan Diabetes Complications Study. *Diabetes Care.* 2012;35:1150-7
- 27: Hirai H, Hayashi T, et al. The role of insulin growth factor on atherosclerosis and endothelial function: The effect on hyperlipidemia and aging. *Life Sci.* 2011;88:425-431
- 28: Napoli C, Hayashi T, Endothelial Progenitor Cells as Therapeutic Agents. *Atherosclerosis.* 2011;215:9-22
- 29: Hayashi T, Ina K, Maeda M, Nomura H. The effects of selective estrogen receptor modulator treatment following hormone replacement therapy on elderly postmenopausal women with osteoporosis. *Nitric Oxide* 2011;24:199-203
- 30: Matsui-Hirai H, Hayashi T, Ignarro LJ, et al. Dose-Dependent Modulatory Effects of Insulin on Glucose-induced Endothelial Senescence in vitro and in vivo: Relationship between Telomeres and NO. *J Pharmacol Exp Ther.* 2011;337:591- 9
- 31: Hayashi T, et al. Place of death for the elderly in end-of-life home care. *Arch Gerontol Geriatr.* 2011;53:242-5

32.: Hayashi T, Kubota K.et al. Age, gender, insulin and blood glucose control status alter the risk of ischemic heart disease and stroke among elderly diabetic patients. Cardiovascular Diabetology 2011;10:86-92

33: Ina K, Hayashi T, et al. Depression, quality of life (QoL) and will to live of community-dwelling postmenopausal women in Asian countries: Korea, China and Japan. Archive Ger. Gerl.2011;53:8-12