

CURRICULUM VITAE

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ADDRESS

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EDUCATION

- 1989 Ph.D. in Pharmacology, University of Tsukuba, Ibaraki, Japan
Thesis: " Positive inotropic effect of calcitonin gene-related peptide mediated by cyclic AMP in guinea pig heart."
- 1986 M.S. in Pharmacology, University of Tsukuba, Ibaraki, Japan
- 1984 B.S. in Pharmaceutical Sciences, Tokyo University of Science, Tokyo, Japan

APPOINTMENTS

- 2006-present Professor, Department of Pharmacology, University of Shizuoka, Shizuoka, Japan
- 1998-2006 Associate Professor, Department of Pharmacology, University of Shizuoka, Shizuoka, Japan
- 1994-1998 Assistant Professor, Department of Pharmacology, University of Tsukuba, Ibaraki, Japan
- 1993-1994 Research Assistant Professor, Department of Physiology, University of Nevada, NV, U.S.A.
- 1990-1993 Research Associate, Department of Physiology, University of Nevada, NV, U.S.A.
- 1990-1991 Assistant Professor, Department of Pharmacology, University of Tsukuba, Ibaraki, Japan

RESEARCH INTEREST

Signaling molecules involved in the functional regulation of pancreatic endocrine cells
Pathophysiological regulation of cutaneous microcirculation
Intracellular signaling mechanisms involved in the activation of hepatic stellate cells

SOCIETY MEMBERSHIPS

Pharmaceutical Society of Japan
The Japanese Pharmacological Society
Japanese Association of Cardiovascular Pharmacology
Japan Diabetes Society
American Diabetes Association.

PUBLICATIONS

- 1) Serizawa I, Iwasaki N, Ishida H, Saito S, Ishikawa T. G-protein coupled estrogen receptor-mediated non-genomic facilitatory effect of estrogen on cooling-induced reduction of skin blood flow in mice. *Eur J Pharmacol* 2017; 797: 26–31.
- 2) Ishida H, Saito S, Hishinuma E, Ishikawa T. Differential contribution of nerve-derived noradrenaline to high K⁺-induced contraction depending on type of artery. *Biol Pharm Bull* 2017; 40: 56–60.
- 3) Sato T, Kaneko YK, Sawatani T, Noguchi A, Ishikawa T. Obligatory role of early Ca²⁺ responses in H₂O₂-induced β -cell apoptosis. *Biol Pharm Bull* 2015; 38, 1599–1605.
- 4) Kaneko YK, Takii M, Kojima Y, Yokosawa H, Ishikawa T. Structure-dependent inhibitory effects of green tea catechins on insulin secretion from pancreatic β -cells. *Biol Pharm Bull* 2015; 38: 476–481.
- 5) Ishikawa T. Recent progress in the research of insulin secretion. *Biol Pharm Bull* 2015; 38: 655.
- 6) Kaneko YK, Ishikawa T. Diacylglycerol signaling pathway in pancreatic β -cells: An essential role of diacylglycerol kinase in the regulation of insulin secretion. *Biol Pharm Bull* 2015; 38: 669–673.
- 7) Sato T, Kaneko YK, Sawatani T, Noguchi A, Ishikawa T. Obligatory role of early Ca²⁺ responses in H₂O₂-induced β -cell apoptosis. *Biol Pharm Bull* 2015; 38: 1599–1605.
- 8) Goto K, Saito S, Ishikawa T. Enhanced vasoconstriction to α_1 -adrenoceptor stimulation during cooling in mouse cutaneous plantar arteries. *Eur J Pharmacol* 2014; 742: 1–7.
- 9) Honda M, Komatsu R, Isobe T, Tabo M, Ishikawa T. Involvement of the autonomic nervous system in diurnal variation of corrected QT intervals in common marmosets. *J Pharmacol Sci* 2013; 121: 131–137.
- 10) Kaneko YK, Kobayashi Y, Motoki K, Nakata K, Miyagawa S, Yamamoto M, Hayashi D, Shirai Y, Sakane F, Ishikawa T. Depression of type I diacylglycerol kinases in pancreatic β -cells from male mice results in impaired insulin secretion. *Endocrinology* 2013; 154: 4089–4098.
- 11) Sahara Y, Saito S, Ishikawa T. Involvement of nitric oxide production in the impairment of skin blood flow response to local cooling in diabetic *db/db* mice. *Eur J Pharmacol* 2013; 720: 147–179.
- 12) Kaneko YK, Ishikawa T. Dual role of nitric oxide in pancreatic β -cells. *J Pharmacol Sci* 2013;

- 123: 295–300.
- 13) Yoshimura T, Ito A, Saito S, Takeda M, Kuriyama H, Ishikawa T. Calcitonin ameliorates enhanced arterial contractility after chronic constriction injury of the sciatic nerve in rats. *Fundam Clin Pharmacol* 2012; 26: 315–321.
 - 14) Suzuki K, Saito S, Ishikawa T. Involvement of phosphatidylcholine-specific phospholipase C in thromboxane A₂ receptor-mediated extracellular Ca²⁺ influx in rat aorta. *Eur J Pharmacol* 2012; 677: 123–130.
 - 15) Nakayama K, Tanabe Y, Obara K, Ishikawa T. Mechanosensitivity of Pancreatic β -cells, Adipocytes, and Skeletal Muscle Cells: The Therapeutic Targets of Metabolic Syndrome. In: *Mechanically Gated Channels and their Regulation*. Kamkin A, Lozinsky I (eds), 2012; p379–404, Springer.
 - 16) Takada M, Noguchi A, Sayama Y, Kaneko Y, Ishikawa T. IP₃ receptor-mediated initial Ca²⁺ mobilization constitutes a triggering signal for H₂O₂-induced apoptosis in INS-1 β -cells. *Biol Pharm Bull* 2011; 34: 954–958.
 - 17) Obara K, Ukai K, Ishikawa T. Mechanism of potentiation by tea epigallocatechin of contraction in porcine coronary artery: the role of protein kinase C δ -mediated CPI-17 phosphorylation. *Eur J Pharmacol* 2011; 668: 414–418.
 - 18) Kashihara T, Goto K, Sahara Y, Nakayama K, Ishikawa T. Differential involvement of α_1 -adrenoceptors in vasoconstrictor responses to cooling in mouse plantar arteries in vitro and in vivo. *J Smooth Muscle Res* 2009; 45: 87–95.
 - 19) Kashihara T, Nakayama K, Matsuda T, Baba A, Ishikawa T. Role of Na⁺/Ca²⁺ exchanger-mediated Ca²⁺ entry in pressure-induced myogenic constriction in rat posterior cerebral arteries. *J Pharmacol Sci* 2009; 110: 218–222.
 - 20) Nakayama K, Obara K, Ishikawa T, Nishizawa S. Specific mechanotransduction signaling involved in myogenic responses of the cerebral arteries. In: *Mechanosensitivity of the heart*. Kamkin A, Kiseleva I (eds), 2009; p453–9481, Springer.
 - 21) Sunouchi T, Suzuki K, Nakayama K, Ishikawa T. Dual effect of nitric oxide on ATP-sensitive K⁺ channels in rat pancreatic β -cells. *Pflügers Arch* 2008; 456: 573–579.
 - 22) Kashihara T, Nakayama K, Ishikawa T. Distinct roles of protein kinase C isoforms in myogenic constriction of rat posterior cerebral arteries. *J Pharmacol Sci* 2008; 108: 446–454.
 - 23) Noguchi A, Takada M, Nakayama K, Ishikawa T. cGMP-independent anti-apoptotic effect of nitric oxide on thapsigargin-induced apoptosis in the pancreatic β -cell line INS-1. *Life Sci* 2008; 83: 865–870.
 - 24) Honda M, Suzuki M, Nakayama K, Ishikawa T. Role of α_{2C} -adrenoceptors in local cooling-induced reduction of skin blood flow in mice. *Br J Pharmacol* 2007; 152: 91–100.
 - 25) Ito Y, Obara K, Ikeda R, Ishii M, Tanabe Y, Ishikawa T, Nakayama K. Passive stretching produces Akt- and MAPK-dependent augmentations of GLUT4 translocation and glucose uptake in skeletal muscles of mice. *Pflügers Arch* 2006; 451: 803–813.
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 - 27) Takii M, Ishikawa T, Tsuda H, Kanatani K, Sunouchi T, Kaneko Y, Nakayama K. Involvement of stretch-activated cation channels in hypotonically induced insulin secretion in rat pancreatic β -cells. *Am J Physiol Cell Physiol* 2006; 291: C1405–C1411.
 - 28) Obara K, Nishizawa S, Koide M, Nozawa K, Mitate A, Ishikawa T, Nakayama K. Interactive role of protein kinase C δ with Rho-kinase in the development of cerebral vasospasm in a canine two-hemorrhage model. *J Vasc Res* 2005; 42: 67–76.

- 29) Yano S, Ishikawa T, Tsuda H, Obara K, Nakayama K. Ionic mechanism for contractile response to hyposmotic challenge in canine basilar arteries. *Am J Physiol Cell Physiol* 2005; 288: C702–C709.
- 30) Ishikawa T, Iwasaki E, Kanatani K, Sugino F, Kaneko Y, Obara K, Nakayama K. Involvement of novel protein kinase C isoforms in carbachol-stimulated insulin secretion from rat pancreatic islets. *Life Sci* 2005; 77: 462–469.
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- 66) Miyauchi T, Ishikawa T, Sugishita Y, Saito A, Goto K. Involvement of calcitonin gene-related peptide in the positive chronotropic and inotropic effects of piperine and development of cross tachyphylaxis between piperine and capsaicin in the isolated rat atria. *J Pharmacol Exp Ther* 1989; 248: 816–824.
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and other 23 reviews and book chapters in Japanese.