

## CURRICULUM VITAE

**Name:** Tatsuo Shimosawa,

**Date of Birth:** November 13, 1962

**Birth Place:** Tokyo, Japan

**Nationality:** Japan

<http://scholar.google.co.uk/citations?user=rpKPCZMAAAAJ&hl=en>

### **Education:**

1997 Ph.D. (Dr. of Medical Science), Tokyo University (Thesis: Physiological role of proadrenomedullin N-terminal 20 peptide) Mentor: Prof. Toshiro Fujita.

1988 M.D., Tsukuba University School of Medicine, Ibaraki, Japan

### **Professional Training and Employment:**

2018-present Professor, Department of Clinical Laboratory, Graduate School of Medicine, International University of Health and Welfare, Chiba

2018-present Visiting Professor, Hebei University of Chinese Medicine, Hebei, China

2017-present Professor and Chair person, Department of Clinical Laboratory, Faculty of Medicine, International University of Health and Welfare, Chiba

2017- present Chief in Clinical Laboratory, Mita Hospital, International University of Health and Welfare, Tokyo

2005- 2017 Lecturer, Department of Clinical Laboratory, The University of Tokyo, Tokyo

2001- 2005 Assistant Professor, Department of Clinical Laboratory, The University of Tokyo, Tokyo

1997- 2001 Assistant Professor, Department of Nephrology and Endocrinology, The University of Tokyo, Tokyo,

1997- present Research associate, Department of Molecular Pathology, Tokyo Metropolitan Institute for Gerontology

1990- 1993 Medical Staff in Internal Medicine, The University of Tokyo, Tokyo

1989- 1990 Resident in Cardiology, Tokyo Metropolitan Geriatric Center, Tokyo

1988- 1989 Resident in Internal Medicine, Tokyo University, Tokyo

### **Research fields**

I have been studying the pathophysiology of hypertension and its related organ damage. My main focus is vasoactive and volume regulating factors such as adrenomedullin, aldosterone, catecholamine. I originally revealed the sympatholytic effect of adrenoemedullin related peptide, proadrenomedullin N-terminal 20 peptide (J Clin Invest 1995). I generated adrenomedullin knockout mice and revealed the relation

between oxidative stress and hypertension related organ damages (Circulation 2002 and others).

Recently I and my students clarified two new etiologies of salt-sensitive hypertension; aldosterone-independent mineralocorticoid receptor activation by Rac1 (J Clin Invest 2011) and epigenetical modification by catecholamine (Nat Med 2011).

Current research field is to further investigations on salt-sensitive hypertension and epigenetic regulations.

**Licensure and Certification:**

- 2015 Fellow of the Japanese Society of Internal Medicine
- 2010 Board Certified Member of the Japanese Endocrine Society
- 2008 Board Certified Member of the Japanese Society of Hypertension
- 2007 Board Certified Member of the Japanese Society of Laboratory Medicine
- 1996 Board Certified Member of the Japan Geriatrics Society
- 1991 Board Certified Member of the Japanese Society of Internal Medicine

**Awards and Honors:**

- 2011 Japanese Society of Laboratory Medicine Research Award
- 2004 Japan Society of Endocrinology Research Award
- 2001 Japan Society of Hypertension Young Investigator Award

**Memberships, Offices and Committee Assignments in Professional Societies**

- 2018-present Director of Japanese Society of Hypertension
- 2017-present Director of Japanese Society of Cardiovascular Endocrinology and Metabolism
- 2014-present Board member of Japanese Society for Medical Use of Functional Foods
- 2014- present Fellow of Japanese Society of Laboratory Medicine
- 2006- present Fellow of American Heart Association
- 2004- present Fellow of Japan Geriatrics Society,
- 2004- present Fellow of Japanese Society of Nephrology,
- 2003- present Fellow of Japan Endocrine Society,
- 2002- present Fellow of Japanese Society of Hypertension,
- 2001- present Fellow of Japanese Society of Cardiovascular Endocrinology and Metabolism,

**Editorial board membership**

- Hypertension Research, PLoS One, International Journal of Cardiology, Current Hypertension Reports

## Memberships and Committee Assignments in non-Professional Societies

1998- 2003 Board member of Japan Clarinet Society, Senior Director

2003- present Vice Chairperson of Japan Clarinet Society

## Lectureship

106 lectures at either domestic or international scientific meetings.

## Grants

Grants in Aid from Japanese Government

Title	Grants No.	Years	PI
Salt-sensitive hypertension and vascular dysfunction	17K09724	2017 – 2020	Tatsuo Shimosawa
Development of a novel strategy for life style disease through exploration of the roles of mineral- and gluco-corticoids in hypertension and organ dysfunction	15H05788	2015 – 2020	Toshiro Fujita
Epigenetical regulation in cardiorenal syndrome by sympathetic nerve activity	26461249	2014 – 2016	Tatsuo Shimosawa
Protective effect for antioxidative peptide against disruption of blood brain barrier induced ischemic injury	24500423	2012 – 2014	Takao Urabe
Investigation of cardio-pulmonary disorder in the animal model of sleep apnea syndrome	23590843	2011 – 2013	Koushi Nagai
Mechanisms and diagnosis of salt-sensitive hypertension in view point of epigenetics	23591213	2011 – 2013	Tatsuo Shimosawa
Insulin resistance and protective role for antioxidative peptide in ischemic white matter damages	21500338	2009 – 2011	Takao Urabe
Clarification of the mechanism of metabolic and vascular regulation by RAMP and its application in metabolic disorders and vascular injuries.	20390221	2008 – 2010	Takayuki Shindo
Pathophysiological mechanisms and therapeutic targets in multiple organ damages in metabolic syndrome	20591048	2008 – 2010	Tatsuo Shimosawa
Production and characterization of Adrenomedullin (-/-)<->(+/+) and RAMP2(-/-)<->(+/+) chimeric mice	18590366	2006 – 2007	Takayuki Sakurai
Therapeutic potency of platinum nanoparticle in metabolic syndrome	18591016	2006 – 2007	Tatsuo Shimosawa

Targeting oxidative stress and new therapy in metabolic syndrome	17209034	2005 – 2007	Toshiro Fujita
Therapeutic potency of antioxidative peptide in metabolic syndrome	16590660	2004 – 2005	Tatsuo Shimosawa
Analysis on formation and protection of atherosclerosis by using genetical engineering, role of LOX-1 and PPAR $\gamma$	14657164	2002 – 2003	Toshiro Fujita
Role of LOX-1 and protective effect of PPAR $\gamma$ in the development of atherosclerosis	14570641	2002 – 2003	Katsuyuki Ando
Organ protective effect of adrenomedullin, studies using knockout mice.	13670693	2001 – 2003	Tatsuo Shimosawa
Study on salt-sensitive hypertension and related organ damages by using gene knock out technique	12877103	2000 – 2001	Toshiro Fujita
Role of oxidized LDL/LOX-1 in the development and progression of renal disease.	12470209	2000 – 2002	Toshiro Fujita
Effect of Proadrenomedullin N-terminal 20 peptide on sympathetic nerve activity	11770625	1999 – 2000	Tatsuo Shimosawa
PHYSIOLOGICAL ROLE OF ADRENOMEDULLIN BY MOLECULAR BIOLOGICAL AND GENE ENGINEERING APPROACH	10218201	1998 – 2002	Toshiro Fujita
Regulation of vascular p38 mitogen-activated protein kinase and its role in the vascular function	10671030	1998 – 1999	Katutoshi Takahashi
Multiple mechanisms for vasodilator effect of magnesium	3454249	1991 – 1993	Toshiro Fujita

## Publications

145 Original Articles, 86 Books, Book chapters, 265 Reviews (including Japanese),

\* Most important papers are indicated

### Original Articles

1. Ando K, Takahashi K, Ono A, Shimosawa T, Ogata E, Fujita T.  
Possible role of sodium-hydrogen antiport in acetylcholine-induced relaxation of rat aorta.  
*Biochem Biophys Res Commun.* 177:407-413, 1991.
2. Ando K, Sato Y, Ono A, Takahashi K, Shimosawa T, Ogata E, Fujita T.  
Antihypertensive effect of dietary calcium loading in angiotensin II-salt rats.  
*Am J Physiol.* 261:1070-1074, 1991.
3. Kuwajima I, Suzuki Y, Shimosawa T, Otsuka K, Kawamura H, Kuramoto K.  
Effect of nifedipine tablets on ambulatory blood pressure in patients aged less than 60 and greater than 65 years with systemic hypertension.  
*Am J Cardiol.* 68:1351-1356, 1991.
4. Kuwajima I, Suzuki Y, Hoshino S, Shimosawa T, Kanemaru A, Sakai M, Kuramoto K.  
Effects of aging on the cardiopulmonary receptor reflex in hypertensive patients.  
*Jpn Heart J.* 32:157-166, 1991.
5. Suzuki Y, Kuwajima I, Hoshino S, Kanemaru A, Shimosawa T, Matsushita S, Kuramoto K.  
Cardiac performance in elderly hypertensive patients with left ventricular hypertrophy: responses to isometric exercise and beta-agonists.  
*J Cardiovasc Pharmacol.* 17:S129-S132, 1991.
6. Kuwajima I, Suzuki Y, Shimosawa T, Kanemaru A, Hoshino S, Kuramoto K.  
Diminished nocturnal decline in blood pressure in elderly hypertensive patients with left ventricular hypertrophy.  
*Am Heart J.* 123:1307-1311, 1992.
7. Suzuki Y, Kuwajima I, Kanemaru A, Shimosawa T, Hoshino S, Sakai M, Matsushita S, Ueda K, Kuramoto K.  
The cardiac functional reserve in elderly hypertensive patients with abnormal diurnal change in blood pressure.  
*J Hypertens.* 10:173-179, 1992.
8. Shimosawa T, Ando K, Ono A, Takahashi K, Isshiki M, Kanda M, Ogata E, Fujita T.  
Insulin inhibits norepinephrine overflow from peripheral sympathetic nerve ending.  
*Biochem Biophys Res Commun.* 188:330-335, 1992.
9. Takahashi K, Ando K, Ono A, Shimosawa T, Ogata E, Fujita T.  
Tumor necrosis factor- $\alpha$  induces vascular hyporesponsiveness in Sprague-Dawley rats.  
*Life Sci.* 50:1437-1444, 1992.
10. Shimosawa T, Ando K, Fujita T.  
Enhancement of vasoconstrictor response by a non-calcemic analogue of vitamin D<sub>3</sub>.  
*Hypertension.* 21:253-258, 1993.
11. Shimosawa T, Ando K, Fujita T.  
Effect of calcium antagonist on renal hemodynamics in salt-loaded spontaneously hypertensive rats.  
*Jpn Heart J.* 36:797-805, 1995.
- \*12. Shimosawa T, Ito Y, Ando K, Kitamura K, Kangawa K, Fujita T.  
Proadrenomedullin NH<sub>2</sub>-terminal 20 peptide, a new product of the adrenomedullin gene, inhibits norepinephrine overflow from nerve endings.  
*J Clin Invest.* 96:1672-1676, 1995.
13. Nagase M, Shimosawa T, Ando K, Fujita T.  
Local renin-angiotensin system in sympathetic overactivity of spontaneously hypertensive rats.  
*Hypertens Res.* 19:171-177, 1996.

14. Shimosawa T, Ando K, Fujita T.  
Effect of insulin on norepinephrine overflow at peripheral sympathetic nerve endings in young spontaneously hypertensive rats.  
*Am J Hypertens.* 9:1119-1125, 1996.
15. Shimosawa T, Fujita T.  
Hypotensive effect of newly identified peptide, proadrenomedullin N-terminal 20 peptide.  
*Hypertension.* 28:325-329, 1996.
16. Ando K, Omi N, Shimosawa T, Fujita T.  
Proadrenomedullin N-terminal 20 peptide (PAMP) inhibits proliferation of human neuroblastoma TGW cells.  
*FEBS Letters.* 413:462-466, 1997.
17. Hayashi M, Shimosawa T, Isaka M, Yamada S, Fujita R, Fujita T.  
Plasma adrenomedullin in diabetes.  
*Lancet.* 350:1449-1450, 1997.
18. Nakao M, Nomura S, Shimosawa T, Yoshiuchi K, Kumano H, Kuboki T, Suematsu H, Fujita T.  
Clinical effects of blood pressure biofeedback treatment on hypertension by auto-shaping.  
*Psychosomatic Medicine.* 59:331-338, 1997.
19. Shimosawa T, Ando K, Fujita T.  
A newly identified peptide, proadrenomedullin N-terminal 20 peptide induces hypotensive action via pertussis toxin-sensitive G-proteins.  
*Hypertension.* 30:1009-1014, 1997.
20. Yoshiuchi K, Nomura S, Ando K, Ohtake T, Shimosawa T, Kumano H, Kuboki T, Suematsu H, Fujita T.  
Hemodynamic and endocrine responsiveness to mental arithmetic task and mirror drawing test in patients with essential hypertension.  
*Am J Hypertens.* 10:243-249, 1997.
21. Fujita T, Inoue H, Kitamura T, Sato N, Shimosawa T, Maruyama N.  
Senescence Marker Protein-30 (SMP30) rescues cell death by enhancing plasma membrane  $Ca^{2+}$ -pumping activity in Hep G2 cells.  
*Biochem Biophys Res Comm.* 250:374-380, 1998.
22. Nakao M, Shimosawa T, Nomura S, Kuboki T, Fujita T, Murata K.  
Mental arithmetic is a useful diagnostic evaluation in white coat hypertension.  
*Am J Hypertens.* 11:42-45, 1998.
23. Ando K, Takahashi K, Shimosawa T, Isshiki M, Nagase M, Fujita T.  
Effect of aging on salt sensitivity of blood pressure in patients with essential hypertension.  
*Clin Exp Nephrol.* 1:18-22, 1999.
24. Hayashi M, Shimosawa T, Fujita T.  
Hyperglycemia increases vascular adrenomedullin expression.  
*Biochem Biophys Res Comm.* 258:453-456, 1999.
25. Inoue H, Fujita T, Kitamura T, Shimosawa T, Nagasawa T, Inoue R, Maruyama N, Nagasawa T.  
Senescence marker protein-30 (SMP30) enhances the calcium efflux from renal tubular epithelial cells.  
*Clin Exp Nephrol.* 3:261-267, 1999.
26. Nakao M, Nomura S, Shimosawa T, Fujita T, Kuboki T.  
Blood pressure biofeedback treatment, organ damage and sympathetic activity in mild hypertension.  
*Psychother Psychosom.* 68:341-347, 1999.
27. Tozawa Y, Ueki A, Shimosawa T, Fujita T.

- 5-HT(2A/2C) receptor agonist-induced increase in urinary isatin excretion in rats: reversal by both diazepam and dexamethasone.  
*Biochem Pharmacol.* 58:1329-1334, 1999.
28. Nakao M, Nomura S, Shimosawa T, Fujita T, Kuboki T.  
Blood pressure biofeedback treatment of white-coat hypertension.  
*J Psychosom Res.* 48:161-169, 2000.
29. Shimosawa T, Kanozawa K, Nagasawa R, Mitarai T, Isoda K, Takahashi K, Ando K, Tozawa Y, Nagase M, Sasaki N, Fujita M, Takano K, Iiri T, T. Fujita.  
Adrenomedullin amidation enzyme activities in hypertensive patients.  
*Hypertens Res.* 23:167-172, 2000.
30. Ando K, Omi N, Shimosawa T, Takahashi K, Fujita T.  
Effects of ouabain on the growth and DNA synthesis of PC12 cells.  
*J Cardiovasc Pharmacol.* 37:233-238, 2001.
31. Fujikura T, Shimosawa T, Yakuo I.  
Regulatory effect of histamine H1 receptor antagonist on the expression of messenger RNA encoding CC chemokines in the human nasal mucosa.  
*J Allergy Clin Immunol.* 107:123-128, 2001.
32. Ishigami T, Fujita T, Simbula G, Columbano A, Kikuchi K, Ishigami A, Shimosawa T, Arakawa Y, Maruyama N.  
Regulatory effects of senescence marker protein 30 on the proliferation of hepatocytes.  
*Pathol Int.* 51:491-497, 2001.
33. Eto Y, Shimosawa T, Nitta K, Nihei H, Maruyama N.  
Interaction between adrenomedullin and angiotensin II in the DNA synthesis and extracellular matrix accumulation in cultured rat kidney interstitial cells.  
*Clin Exp Nephrol.* 6:7-12, 2002.
34. Ishigami A, Fujita T, Handa S, Shirasawa T, Koseki H, Kitamura T, Enomoto N, Sato N, Shimosawa T, Maruyama N.  
Senescence marker protein-30 knockout mouse liver are highly susceptible to TNF-alpha and Fas-mediated apoptosis.  
*Am J Pathology.* 161:1273-1281, 2002.
35. Kanozawa K, Shimosawa T, Nagasawa R, Matsuda A, Kato H, Matsumura O, Mitarai T, Isoda K, Fujita T.  
Mature form of adrenomedullin is a useful marker to evaluate blood volume in hemodialysis patients.  
*Am J Kid Dis.* 40:794-801, 2002.
36. Kawai J, Ando K, Shimosawa T, Harii K, Fujita T.  
Regional hemodynamic effects of adrenomedullin in Wistar rats: a comparison with calcitonin gene-related peptide.  
*Hypertens Res.* 25:441-446, 2002.
- \*37. Shimosawa T, Shibagaki Y, Ishibashi K, Kitamura K, Kangawa K, Kato S, Ando K, Fujita T.  
Adrenomedullin, an Endogenous Peptide, Counteracts Cardiovascular Damage.  
*Circulation.* 105:106-111, 2002.
38. Shimosawa T, Ogihara T, Matsui H, Asano T, Ando K, Fujita T.  
Deficiency of adrenomedullin induces insulin resistance by increasing oxidative stress.  
*Hypertension.* 41:1080-1085, 2003.
39. Kawai J, Ando K, Tojo A, Shimosawa T, Takahashi K, Onozato M, Yamasaki M, Ogita T, Nakaoka T, Fujita T.  
Endogenous Adrenomedullin Protects against Vascular Response to Injury in Mice.  
*Circulation.* 109:1147-1153, 2004.
40. Matsui H, Shimosawa T, Itakura K, Guanqun X, Ando K, Fujita T.

- Adrenomedullin can protect against pulmonary vascular remodeling induced by hypoxia. *Circulation*. 109:2246-2251, 2004.
41. Shimosawa T, Takano K, Ando K, Fujita T. Magnesium inhibits norepinephrine release by blocking N-type calcium channels at peripheral sympathetic nerve endings. *Hypertension*. 44:897-902, 2004.
  42. Xing G, Shimosawa T, Ogihara T, Matsui H, Itakura K, Qingyou X, Asano T, Ando K, Fujita T. Angiotensin II-induced insulin resistance is enhanced in adrenomedullin-deficient mice. *Endocrinology*. 145:3647-3651, 2004.
  43. Kushiyama A, Shojima N, Ogihara T, Inukai K, Sakoda H, Fujishiro M, Fukushima Y, Anai M, Ono H, Horike N, Viana AY, Uchijima Y, Nishiyama K, Shimosawa T, Fujita T, Katagiri H, Oka Y, Kurihara H, Asano T. Resistin like molecule beta activates MAPKs, suppresses insulin signaling in hepatocytes and induces diabetes, hyperlipidemia and fatty liver in transgenic mice on a high-fat diet. *J Biol Chem*. 280:42016-42025, 2005.
  44. Matsui H, Shimosawa T, Uetake Y, Wang H, Ogura S, Kaneko T, Liu J, Ando K, Fujita T. Protective effect of potassium against the hypertensive cardiac dysfunction: association with reactive oxygen species reduction. *Hypertension*. 48:225-231, 2006.
  45. Moriya J, Takimoto Y, Yoshiuchi K, Shimosawa T, Akabayashi A. Plasma agouti-related protein levels in women with anorexia nervosa. *Psychoneuroendocrinology*. 31:1057-1061, 2006.
  46. Liu J, Shimosawa T, Matsui H, Meng F, Supowit SC, DiPette DJ, Ando K, Fujita T. Adrenomedullin Inhibits Angiotensin II-Induced Oxidative Stress Via Csk-Mediated Inhibition of Src Activity. *Am J Physiol Heart Circ Physiol*. 292:H1714-1721, 2007.
  47. Yamauchi Y, Fujikura T, Shimosawa T. The effect of H1 antagonist carebastine and olopatadine on histamine induced expression of CC chemokines in cultured human nasal epithelial cells. *Allergol Int*. 56:171-177, 2007.
  48. Hirano Y, Tsunoda M, Shimosawa T, Matsui H, Fujita T, Funatsu T. Suppression of COMT activity through blunting  $\alpha_2$ -adrenoceptor can explain hypertension in Dahl salt-sensitive rats. *Hypertens Res*. 30:269-278, 2007.
  49. Aoki S, Yatomi Y, Shimosawa T, Yamashita H, Kitayama J, Tsuno HN, Takahashi K, Ozaki Y. The suppressive effect of sphingosine 1-phosphate on monocyte-endothelium adhesion may be mediated by the rearrangement of the endothelial integrins  $\alpha_5\beta_1$  and  $\alpha_v\beta_3$ . *J Thromb Haemost*. 5:1292-1301, 2007.
  50. Shimosawa T, Gochi K, Yatomi Y, Fujita T. Effectiveness of Add-on Low-dose Diuretics in Combination Therapy for Hypertension: Losartan/HCTZ versus candesartan/amlodipine. *Hypertension Res*. 30:831-837, 2007.
  51. Marumo T, Hishikawa K, Matsuzaki Y, Imai N, Takase O, Shimosawa T, Okano H, Fujita T. Angiotensin II type 1 receptor blockade prevents decrease in adult stem-like cells in kidney after ureteral obstruction. *Eur J Pharmacol*. 573:216-220, 2007.
  52. Hirano Y, Tsunoda M, Shimosawa T, Fujita T, Funatsu T.



- Measurement of catechol-O-methyltransferase activity in the brain of Dahl salt-sensitive rats.  
*Biol Pharm Bull.* 30:2178-2180, 2007.
53. Wang H, Shimosawa T, Matsui H, Kaneko T, Ogura S, Uetake Y, Takenaka K, Yatomi Y, Fujita T.  
Paradoxical mineralocorticoid receptor activation and left ventricular diastolic dysfunction under high oxidative stress conditions.  
*J Hypertens.* 26:1453-1462, 2008.
54. Matsui H, Ando K, Kawarazaki H, Nagae A, Fujita M, Shimosawa T, Nagase M, Fujita T.  
Salt excess causes left ventricular diastolic dysfunction in rats with metabolic disorder.  
*Hypertension.* 52:287-294, 2008.
55. Sakakibara I, Fujino T, Ishii M, Tanaka T, Shimosawa T, Miura S, Zhang W, Tokutake Y, Yamamoto J, Awano M, Iwasaki S, Motoike T, Okamura M, Inagaki T, Kita K, Ezaki O, Naito M, Kuwaki T, Chohnan S, Yamamoto T.T, Hammer R.E, Kodama T, Yanagisawa M, Sakai J.  
Fasting-Induced hypothermia and reduced energy production in mice lacking acetyl-CoA synthetase 2.  
*Cell Metabolism.* 9: 191-202, 2009.
56. Ikeda H, Watanabe N, Ishii I, Shimosawa T, Kume Y, Tomiya T, Inoue Y, Nishikawa T, Ohtomo N, Tanoue Y, Iitsuka S, Fujita R, Omata M, Chun J, Yatomi Y.  
Sphingosine 1-phosphate regulates regeneration and fibrosis after liver injury via sphingosine 1-phosphate receptor 2.  
*J. Lipid Res.* 50: 556-564, 2009.
57. Miyamoto N, Tanaka R, Shimosawa T, Yatomi Y, Fujita T, Hattori N, Urabe T.  
PKA-dependent suppression of ROS in transient focal ischemia in adrenomedullin-deficient mice.  
*J Cereb Blood Flow Metab.* 29: 1769-1779, 2009.
58. Hirahashi J, Hishikawa K, Kaname S, Tsuboi N, Wang Y, Simon D. I. Stavrakis G, Shimosawa T, Xiao L, Nagahama Y, Suzuki K, Fujita T, Mayadas T. N.  
Mac-1 (CD11b/CD18) links inflammation and thrombosis after glomerular injury.  
*Circulation.* 120: 1255-1265, 2009.
59. Unuma K, Shintani-Ishida K, Tsushima K, Shimosawa T, Ueyama T, Kuwahara M, Yoshida K.  
Connexin-43 redistribution and gap junction activation during forced restraint protects against sudden arrhythmic death in rats.  
*Circ J.* 74:1087-1095, 2010.
60. Unuma K, Shintani-Ishida K, Yahagi N, Tsushima K, Shimosawa T, Ueyama T, Yoshida K.  
Restraint stress induces connexin-43 translocation via  $\alpha$ -adrenoceptors in rat heart.  
*Circ J.* 74: 2693-2701, 2010.
61. Kato Y, Araki N, Ohkubo T, Asano Y, Furuya D, Hattori K, Simazu T, Yamazato M, Nagoya H, Ito Y, Shimosawa T, Fujita T, Shimazu K.  
Effects of adrenomedullin on nitric oxide production during forebrain ischemia and reperfusion in mice.  
*Cerebral Blood Flow and Metabolism.* 21:1-6, 2010.
62. Yamamoto C, Fukuda N, Jumabay M, Saito K, Matsumoto T, Ueno T, Soma M, Matsumoto K, Shimosawa T.  
Protective effects of statin on cardiac fibrosis and apoptosis in adrenomedullin-knockout mice treated with angiotensin II and high salt loading.  
*Hypertens Res.* 34:348-353, 2011.
- \*63. Mu S, Shimosawa T, Ogura S, Wang H, Uetake Y, Kawakami-Mori F, Marumo T, Yatomi Y, Geller DS, Tanaka H, Fujita T.

- Epigenetic modulation of the renal  $\beta$ -adrenergic-WNK4 pathway in salt-sensitive hypertension.  
*Nat Med.* 17:573–580, 2011.
- \*64. Shibata S, Mu S, Kawarazaki H, Muraoka K, Ishizawa K, Yoshida S, Kawarazaki W, Takeuchi M, Ayusawa N, Miyoshi J, Takai Y, Ishikawa A, Shimosawa T, Ando K, Nagase M, Fujita T.  
Rac1 GTPase in rodent kidneys is essential for salt-sensitive hypertension via a mineralocorticoid receptor-dependent pathway.  
*J Clin Invest.* 121:3233-3243, 2011.
65. Ando K, Haneda M, Ito S, Kashihara N, Node K, Nangaku M, Shimosawa T, Kishimoto J, Fujita T.  
Design and Rationale of Japanese Evaluation Between Formula of Azelnidipine and Amlodipine Add on Olmesartan to Get Antialbuminuric Effect Study (J-FLAG) : Evaluation of the Antialbuminuric Effects between Calcium Channel Blocker with Sympatholytic Action in Hypertensive Patients with Diabetes and Albuminuria.  
*Cardiovasc Drugs Ther.* 25:341-347, 2011.
66. Kawakami- Mori F, Shimosawa T, Mu S, Wang H, Ogura S, Yatomi Y, Fujita T.  
NADPH oxidase-mediated Rac1 GTP activity is necessary for non-genomic actions of the mineralocorticoid receptor in the CA1 region of the rat hippocampus.  
*Am J Physiol Endoc Metab.* 302: E425-32, 2012.
67. Saito R, Shimosawa T, Ogihara T, Maruyama N, Fujita T, Okamura N, Nakahara K.  
Function of adrenomedullin in inflammatory response of liver against LPS-induced endotoxemia.  
*APMIS.* 120:706-11, 2012.
68. Hasegawa Y, Saito T, Ogihara T, Ishigaki Y, Yamada T, Imai J, Uno K, Gao J, Kaneko K, Shimosawa T, Asano T, Fujita T, Oka Y, Katagiri H.  
Blockade of the NF- $\kappa$ B Pathway in the Endothelium Prevents Insulin Resistance and Prolongs Lifespans.  
*Circulation.* 125: 1122-33, 2012.
69. Kegeyama Y, Ikeda H, Watanabe N, Nagamine M, Kusumoto Y, Yashiro M, Satoh Y, Shimosawa T, Shinozaki K, Tomiya T, Inoue Y, Nishikawa T, Ohtomo N, Tanoue Y, Yokota H, Koyama T, Ishimaru K, Okamoto Y, Takuwa Y, Koike K, Yatomi Y.  
Antagonism of sphingosine 1-phosphate receptor 2 causes a selective reduction of portal vein pressure in bile duct-ligated rodents.  
*Hepatology.* 56:1427-38, 2012.
70. Saito T, Hasegawa Y, Ishigaki Y, Yamada T, Gao J, Imai J, Uno K, Kaneko K, Ogihara T, Shimosawa T, Asano T, Fujita T, Oka Y, Katagiri H.  
Importance of endothelial NF- $\kappa$ B signalling in vascular remodelling and aortic aneurysm formation.  
*Cardiovasc Res.* 97:109-14, 2013.
71. Nikitenko L.L, Shimosawa T, Henderson S, Mäkinen T, Shimosawa H, Qureshi U, Pedley B, Rees M.C.P., Fujita T.  
Boshoff C. Adrenomedullin Haploinsufficiency Predisposes to Secondary Lymphedema.  
*J Invest Dermatol.* 133:1768-76, 2013.
72. Ogura S, Shimosawa T, Mu S, Sonobe T, Kawakami-Mori F, Wang H, Uetake Y, Yoshida KI, Yatomi Y, Shirai M, Fujita T.  
Oxidative stress augments pulmonary hypertension in chronically hypoxic mice overexpressing oxidized LDL receptor.  
*Am J Physiol Heart and Circulatory Physiology.* 305:H155-62, 2013.
73. Masuzawa T, Kuniyoshi S, Onishi M, Kato R, Saito I, Yamada T, Koh ATT, Chua DHC, Shimosawa T, Okano K.

- Conditions for a carrier multiplication in amorphous-selenium based photodetector.  
*Appl Phys Lett.* 102: 073506-073506-4. 2013.
74. Masuzawa T, Onishi M, Saito I, Yamada T, Koh ATT, Chua DHC, Ogawa S, Takakuwa Y, Mori Y, Shimosawa T, Okano K.  
High quantum efficiency UV detection using a-Se based photodetector.  
*Phys Status Solidi RRL.* 7: 473-476, 2013.
  75. Hayashi M, Tojo A, Shimosawa T, Fujita T.  
The role of adrenomedullin in the renal NADPH oxidase and (pro)renin in diabetic mice.  
*J Diabetes Res.* Volume 2013: Article ID 134395, 8 pages, 2013.
  76. Jimbo R, Kawakami-Mori F, Mu S, Hirohama D, Majtan B, Shimizu Y, Yatomi Y, Fukumoto S, Fujita T, Shimosawa T.  
Fibroblast growth factor 23 accelerates phosphate-induced vascular calcification in absence of Klotho deficiency.  
*Kidney Int.* 85:1103-1111, 2014.
  77. Kono R, Kanozawa K, Shimosawa T, Tayama Y, Matsuda A, Hasegawa H, Mitarai T.  
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