

SCIENTIFIC ACHIEVEMENTS OF SHINSHU UNIVERSITY SCHOOL OF  
MEDICINE, SHINSHU UNIVERSITY GRADUATE SCHOOL OF MEDICINE,  
AND SHINSHU UNIVERSITY HOSPITAL

信州大学医学部医学科・大学院医学系研究科・医学部附属病院業績録  
No.47 (2018)



# 信州大学医学部業績録編集要項（抜粋）

（平成28年12月29日改正）

## 2. 収録対象

信州大学医学部医学科・大学院医学系研究科・医学部附属病院及び出版委員会で認められた施設等に所属する者（当該年に在籍した者全員）

## 3. 収録内容

収録対象は、本文が欧文で執筆された研究業績とし、次の3項目に分ける。

### 1) 論文

原著、綜説、展望、症例報告、速報、予報で、査読のある学術雑誌に発表のもの。  
学術集会記録（全国的又は世界的規模の集会記録で、原著論文と同様の内容もち、別刷が発行されているもの）

### 2) 著書

単行書、分担執筆。

### 3) その他

治療指針、トピックス、事典等、専門的知見にもとづき執筆された、論文形式の記事

ただし、以下のものは除外する。

- (イ) 学会発表の抄録（邦文、欧文を問わない。論文型式をとっていても学会発表に関するもの及び1頁ものの速報は抄録とみなす）
- (ロ) セミナー、シンポジウム、その他の講演のテキストないし記録。
- (ハ) 業務報告書（文部科学省、厚生労働省、その他助成機関への研究報告書）
- (ニ) 座談会記事。
- (ホ) 学会記。
- (ヘ) 論文形式をとらない質疑応答（Q and A）、問題集の解説、話題、グラビア等に類するもの。
- (ト) 新聞・週刊誌記事、教育に関する記事、人物紹介、書評、随筆など学術性が認められないもの。
- (チ) 著者表示が団体名で個人の著者性が認められないもの。

## 4. 収録期間

毎年1月～12月

SCIENTIFIC ACHIEVEMENTS OF  
SHINSHU UNIVERSITY SCHOOL OF MEDICINE,  
SHINSHU UNIVERSITY GRADUATE SCHOOL OF MEDICINE,  
AND SHINSHU UNIVERSITY HOSPITAL

信州大学医学部医学科・大学院医学系研究科・

医学部附属病院業績録

No. 47

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# I. Scientific Achievements of Shinshu University School of Medicine, Shinshu University Graduate School of Medicine, and Shinshu University Hospital

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## Aging Biology

- 20180001 Huo J, Xu Z, Hosoe K, Kubo H, Miyahara H, Dai J, Mori M, Sawashita J, Higuchi K : Coenzyme Q10 Prevents Senescence and Dysfunction Caused by Oxidative Stress in Vascular Endothelial Cells. *Oxid Med Cell Longev* : 3181759, 2018.
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- 20180004 Ding X, Liu Y, Yang M, Li L, Miyahara H, Dai J, Xu Z, Matsumoto K, Mori M, Higuchi K, Sawashita J : Amyloidosis-inducing activity of blood cells in mouse AApoAII amyloidosis. *Exp Anim* 67: 105-115, 2018.

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- 20180005 Kawakubo M, Horiuchi K, Matsumoto T, Nakayama J, Akamatsu T, Katsuyama T, Ota H, Sagara J : Cholesterol- $\alpha$ -glucosyltransferase gene is present in most *Helicobacter* species including gastric non-*Helicobacter pylori* helicobacters obtained from Japanese patients. *Helicobacter* 23: e12449, 2018.
- 20180006 Yoshizawa T, Mizumoto S, Takahashi Y, Shimada S, Sugahara K, Nakayama J, Takeda S, Nomura Y, Nitahara-Kasahara Y, Okada T, Matsumoto K, Yamada S, Kosho T : Vascular abnormalities in the placenta of *Chst14*<sup>-/-</sup> fetuses: implications in the pathophysiology of perinatal lethality of the murine model and vascular lesions in human *CHST14/D4ST1* deficiency. *Glycobiology* 28: 80-89, 2018.
- 20180007 Sugiura Y, Kanda H, Motoi N, Nomura K, Inamura K, Okada E, Matsumoto H, Shimoji T, Matsumoto S, Nakayama J, Takazawa Y, Ishikawa Y, Machinami R : Osteosarcoma arising in fibrous dysplasia, confirmed by mutational analysis of *GNAS* gene. *Pathol Res Pract* 214: 318-324, 2018.
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adenocarcinoma possibly developed from the cut-end of small-sized adenocarcinoma in the lung periphery as recurrence 13 years after its wedge resection. *Surg Case Rep* 4: 2, 2018.

- 20180009 Fuke M, Narita M, Wada Y, Seto T, Okada K, Nakayama J, Izumi H, Ito KI : Increased Expression of Y-Box-Binding Protein-1 in Hind-Limb Muscles During Regeneration from Ischemic Injury in Mice. *Tohoku J Exp Med* 244: 53-62, 2018.
- 20180010 Yamanoi K, Nakayama J : Reduced  $\alpha$ GlcNAc glycosylation on gastric gland mucin is a biomarker of malignant potential for gastric cancer, Barrett's adenocarcinoma, and pancreatic cancer. *Histochem Cell Biol* 149: 569-575, 2018.
- 20180011 Desamero MJ, Kakuta S, Chambers JK, Uchida K, Hachimura S, Takamoto M, Nakayama J, Nakayama H, Kyuwa S : Orally administered brown seaweed-derived  $\beta$ -glucan effectively restrained development of gastric dysplasia in *A4gnt* KO mice that spontaneously develop gastric adenocarcinoma. *Int Immunopharmacol* 60: 211-220, 2018.
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- 20180013 Yamanoi K, Ishii K, Tsukamoto M, Asaka S, Nakayama J : Gastric gland mucin-specific O-glycan expression decreases as tumor cells progress from lobular endocervical gland hyperplasia to cervical mucinous carcinoma, gastric type. *Virchows Arch* 473, 305-311, 2018 473: 305-311, 2018.
- 20180014 Yamada S, Matsuura H, Nakayama J : Limitation in defining ablation line by magnified endoscopic imaging for endoscopic submucosal resection of gastric adenocarcinoma of fundic gland type as revealed by 3D reconstruction images of gastric tissue specimens. *J Can Assoc Gastroenterol* 1: 137-138, 2018.
- 20180015 Uehara M, Kosho T, Yamamoto N, Takahashi HE, Shimakura T, Nakayama J, Kato H, Takahashi J : Spinal manifestations in 12 patients with musculocontractural Ehlers-Danlos syndrome caused by *CHST14/D4ST1* deficiency (mcEDS-*CHST14*). *Am J Med Genet* 176A: 2331-2341, 2018.

## Metabolic Regulation

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- 20180017 Guo X, Kashihara T, Nakada T, Aoyama T, Yamada M : PDGF-induced migration of synthetic vascular smooth muscle cells through c-Src-activated L-type Ca<sup>2+</sup> channels with full-length CaV1.2 C-terminus. *Pflugers Arch* 470: 909-921, 2018.
- 20180018 Kimura T, Tanaka N, Fujimori N, Sugiura A, Yamazaki T, Joshita S, Komatsu M, Umemura T, Matsumoto A, Tanaka E : Mild drinking habit is a risk factor for hepatocarcinogenesis in non-alcoholic fatty liver disease with advanced fibrosis. *World J Gastroenterol* 24: 1440-1450, 2018.
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- 20180021 Makino T, Horiuchi A, Kajiyama M, Tanaka N, Sano K, Maetani I : Delayed Bleeding Following Cold Snare Polypectomy for Small Colorectal Polyps in Patients Taking Antithrombotic Agents. *J Clin Gastroenterol* 52: 502-507, 2018.
- 20180022 Wakabayashi SI, Kimura T, Tanaka N, Joshita S, Kawata K, Umemura T, Hiroshima Y, Mori H, Kobayashi H, Wada S, Tanaka E : Emergence of anti-mitochondrial M2 antibody in patient with angioimmunoblastic T-cell lymphoma. *Clin J Gastroenterol* 11: 302-308, 2018.
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- 20180024 Yamashita Y, Kimura T, Tanaka N, Yazaki M,

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- 20180025 Zhai L, Sakurai T, Kamiyoshi A, Ichikawa-Shindo Y, Kawate H, Tanaka M, Xian X, Hirabayashi K, Dai K, Cui N, Tanimura K, Liu T, Wei Y, Tanaka M, Tomiyama H, Yamauchi A, Igarashi K, Shindo T : Endogenous calcitonin gene-related peptide suppresses ischemic brain injuries and progression of cognitive decline. *J Hypertens*. 36: 876-891, 2018.
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## Sports Medical Sciences

- 20180027 Uchida K, Kamijo Y, Ikegawa S, Masuki S, Nose H : Interval walking training and nutritional intake to increase plasma volume in elderly. *Med Sci Sports Exerc* 50: 151-158, 2018.
- 20180028 Tanabe A, Masuki S, Nemoto K, Nose H : Seasonal influence on adherence to and effects of an interval walking training program on sedentary female college students in Japan. *Int J Biometeorol* 62: 634-654, 2018.
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- 20180030 Morikawa M, Nakano S, Mitsui N, Murasawa H, Masuki S, Nose H : Effects of dried tofu supplementation during interval walking training on the methylation of the NFKB2 gene in the whole blood of older women. *J Physiol Sci* 68: 749-757, 2018.
- 20180031 Nose H, Kamijo Y, Masuki S : Interactions between body fluid homeostasis and thermoregulation in humans. *Handb Clin Neurol* 156: 417-429, 2018.
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Physiol (Lond) 596: 5443-5459, 2018.

- 20180033 Horiuchi M, Endo H, Handa Y, Nose H : Barometric pressure change and heart rate responses during sleeping at 3000m. *Int J Biometeorol* 62: 909-912, 2018.

### Histology and Embryology

- 20180034 Sakai S, Tomotsune D, Hirashima K, Takizawa S, Yokoyama T, Yue F, Tani R, Matsumoto K, Sasaki K : Simulation of Embryonic Environments Produced by the Effect of Estradiol on Induced Pluripotent Stem Cells. *J Regen Med* 7: 1-5, 2018.

- 20180035 Genova E, Pelin M, Sasaki K, Yue F, Lanzi G, Masneri S, Ventura A, Stocco G, Decorti G : Induced Pluripotent Stem Cells as a Model for Therapy Personalization of Pediatric Patients: Disease Modeling and Drug Adverse Effects Prevention. *Curr Med Chem* 25: 2826-2839, 2018.

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- 20180037 Karasawa M, Yokouchi K, Kawagishi K, Moriizumi T, Fukushima N : Effects of repeated nerve injuries at different time intervals on functional recovery and nerve innervation. *J Clin Neurosci* 48: 185-190, 2018.

### Physiology

- 20180038 Spaans F, Quon A, Rowe SR, Morton JS, Kirschenman R, Sawamura T, Tannetta DS, Sargent IL, Davidge ST : Alterations in vascular function by syncytiotrophoblast extracellular vesicles via lectin-like oxidized low-density lipoprotein receptor-1 in mouse uterine arteries. *Clin Sci (Lond)* 132: 2369-2381, 2018.

- 20180039 Wang YC, Lee AS, Lu LS, Ke LY, Chen WY, Dong JW, Lu J, Chen Z, Chu CS, Chan HC, Kuzan TY, Tsai MH, Hsu WL, Dixon RAF, Sawamura T, Chang KC, Chen CH : Human electronegative LDL induces mitochondrial dysfunction and premature senescence of vascular cells in vivo. *Aging Cell* e12792, 2018.

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- 20180042 Komiyama M, Wada H, Ono K, Yamakage H, Satoh-Asahara N, Shimada S, Akao M, Morimoto T, Shimatsu A, Takahashi Y, Sawamura T, Hasegawa K : Smoking cessation reduces the lectin-like low-density lipoprotein receptor index, an independent cardiovascular risk marker of vascular inflammation. *Heart Vessels* 33: 9-16, 2018.

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- 20180043 Han KA, Ko JS, Pramanik G, Kim JY, Tabuchi K, Um JW, Ko J : PTP $\sigma$  Drives Excitatory Presynaptic Assembly via Various Extracellular and Intracellular Mechanisms. *J Neurosci* 38(30): 6700-6721, 2018.

- 20180044 Kasem E, Kurihara T, Tabuchi K : Neurexins and neuropsychiatric disorders. *Neurosci Res* 127: 53-60, 2018.

- 20180045 Tanahashi H, Suzuki T : Deletion of Lrp4 increases the incidence of microphthalmia. *Biochem Biophys Res Commun* 506(3): 478-484, 2018.

- 20180046 Suzuki T, Kametani K, Guo W, Li W : Protein components of post-synaptic density lattice, a backbone structure for type I excitatory synapses. *J Neurochem* 144(4): 390-407, 2018.

- 20180047 Murabe N, Mori T, Fukuda S, Isoo N, Ohno T, Mizukami H, Ozawa K, Yoshimura Y, Sakurai M : Higher primate-like direct corticomotoneuronal connections are transiently formed in a juvenile subprimate mammal. *Sci Rep* 8(1): 16536-16536, 2018.

- 20180048 Osanai Y, Shimizu T, Mori T, Hatanaka N, Kimori Y, Kobayashi K, Koyama S, Yoshimura Y, Nambu A, Ikenaka K : Length of myelin internodes of individual oligodendrocytes is controlled by microenvironment influenced by normal and input-deprived axonal activities in sensory deprived mouse models. *Glia* 66(11): 2514-2525, 2018.

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- 20180049 Hiratsuka S, Tomita T, Mishima T, Matsunaga Y, Omori T, Ishibashi S, Yamaguchi S, Hosogane T, Watarai H, Omori-Miyake M, Yamamoto T, Shibata N, Watanabe

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### Molecular Pharmacology

20180050 Guo X, Kashihara T, Nakada T, Aoyama T, Yamada M : PDGF-induced migration of synthetic vascular smooth muscle cells through c-Src-activated L-type  $Ca^{2+}$  channels with full-length Cav1.2 C-terminus. *Pflugers Arch* 470: 909-921, 2018.

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### Pathology

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20180054 Chiba S, Nakamura Y, Mizuno T, Aba K, Horii Y, Nagashima H, Sasaki N, Kanno H, Tanita T, Yamauchi K : Impact of the genetic variants of GLCCI1 on clinical features of asthmatic patients. *Clin Respir J* 12: 1166-1173, 2018.

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20180056 Morokawa H, Kamiya M, Wakui K, Kobayashi M, Kurata T, Matsuda K, Kawamura R, Kanno H, Fukushima Y, Nakazawa Y, Kosho T : Myelodysplastic syndrome in an infant with constitutional pure duplication 1q41-qter. *Human Genome Variation* 5: 6, 2018.

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20180060 Ohya M, Yoshida K, Shimojo H, Shiina T : Multiple primary chordomas of the lung. *Respir Med Case Rep* 25: 142-144, 2018.

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20180064 Koga T, Migita K, Sato T, Sato S, Umeda M, Nonaka F, Fukui S, Kawashiri SY, Iwamoto N, Ichinose K, Tamai M, Nakamura H, Origuchi T, Ueki Y, Masumoto J, Agematsu K, Yachie A, Yoshiura KI, Eguchi K, Kawakami A : MicroRNA-204-3p inhibits lipopolysaccharide-induced cytokines in familial Mediterranean fever via the phosphoinositide 3-kinase  $\gamma$  pathway. *Rheumatology* 57: 718-726, 2018.

20180065 Hachiya A, Kobayashi N, Matsuzaki S, Takeuchi Y, Akazawa Y, Shigemura T, Motoki N, Masumoto J, Agematsu K : Analysis of biomarker serum levels in IVIG and infliximab refractory Kawasaki disease patients. *Clin Rheumatol* 37: 1937-1943, 2018.

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- 20180068 Sato S, Fujita Y, Shigemura T, Matoba H, Agematsu K, Sumichika Y, Yashiro M, Ono A, Kawasaki Y, Kobayashi H, Watanabe H, Koga T, Kawakami A, Migita K : Juvenile onset autoinflammatory disease due to a novel mutation in TNFAIP3 (A20). *Arthritis Res Ther* 20: 274, 2018.
- 20180069 Nagase H, Nakayama K : Present and future therapies for Alzheimer's disease. In: Seyyed Shamsadin Athari. *Immunoregulatory aspects of Immunotherapy*. p.177-197, IntechOPEN, London, 2018.
- Microbiology and Immunology**
- 20180070 Tsumoru Nakada, Toshihide Kashihara, Masatoshi Komatsu, Katsuhiko Kojima, Toshikazu Takeshita and Mitsuhiko Yamada : Physical interaction of junctophilin and the Cav1.1C terminus is crucial for skeletal muscle contraction. *Proc. Natl. Acad. Sci. USA* 115: 4507-4512, 2018.
- Medical Genetics**
- 20180071 Yoshizawa T, Mizumoto S, Takahashi Y, Shimada S, Sugahara K, Nakayama J, Takeda S, Nomura Y, Nitahara-Kasahara Y, Okada T, Matsumoto K, Yamada S, Kosho T : Vascular abnormalities in the placenta of Chst14-/- fetuses: implications in the pathophysiology of perinatal lethality of the murine model and vascular lesions in human CHST14/D4ST1 deficiency. *Glycobiology*. 28: 80-89, 2018.
- 20180072 Morokawa H, Kamiya M, Wakui K, Kobayashi M, Kurata T, Matsuda K, Kawamura R, Kanno H, Fukushima Y, Nakazawa Y, Kosho T : Myelodysplastic syndrome in an infant with constitutional pure duplication 1q41-qter. *Hum Genome Var.* 5: 6, 2018.
- 20180073 Nishi E, Takasugi M, Kawamura R, Shibuya S, Takamizawa S, Hiroma T, Nakamura T, Kosho T : Clinical courses of children with trisomy 13 receiving intensive neonatal and pediatric treatment. *Am J Med Genet A.* 176: 1941-1949, 2018.
- 20180074 Shibuya S, Miyake Y, Takamizawa S, Nishi E, Yoshizawa K, Hatata T, Yoshizawa K, Fujita K, Noguchi M, Ohata J, Hiroma T, Nakamura T, Kosho T : Safety and efficacy of noncardiac surgical procedures in the management of patients with trisomy 13: A single institution-based detailed clinical observation. *Am J Med Genet A.* 176: 1137-1144, 2018.
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## あ と が き

信州大学医学部医学科・大学院医学系研究科・医学部附属病院業績録第47号をお届けします。本業績録は過去1年間、各教室や部門などでなされた4つの活動（研究活動、教育活動、診療活動、社会貢献）のうち、研究活動の成果として公表された論文を中心にまとめたものです。自己点検、自己評価、学内・学外への報告において、本業績録の役割は重要と思われます。この1年の研究活動を振り返り、今後の方向性を考える契機にいただければ幸いです。

学術論文が公表されるまでには大変なエネルギーが必要となります。各著者の研究は、医学医療における問題や疑問から解明したい目的を定め、その目的を達成するために具体的研究計画を立て、資金を調達し、倫理審査を受け、実験あるいは臨床研究を行ってデータを集め、データと対峙し考え、人にいかにわかりやすく伝えるかを熟考しながら執筆し、投稿先を定め、査読を受け、査読者と編集委員長と議論を重ねて内容を深めて承諾を受け、晴れて学術論文として日の目を見ます。2018年度の医学部の英文論文数は491本でした。研究経費確保の困難さ、人員不足、診療業務の増加など研究活動にかかるエフォート確保が難しい中で、少しずつその論文業績総数が増加していることにつき、すべての信州大学医学部の著者に敬意を表します。出版委員として、公表された論文それぞれに著者のエネルギーが凝縮されていることを感じながら、業績録への記録の是非をチェックさせていただきました。

粗悪学術誌（いわゆるハゲタカジャーナル）が問題となっております。学術業績の高い研究者の下には、日々そのような雑誌への投稿や原稿査読の依頼が届いていることと思います。今回の業績チェックでも、そのような雑誌や雑誌社に該当しないかをしっかりと評価いたしました。信州大学「オープンアクセスジャーナル投稿ガイドライン」[https://www.shinshu-u.ac.jp/hq/research-integrity/news/asset\\_items/74yakubu\\_07.pdf](https://www.shinshu-u.ac.jp/hq/research-integrity/news/asset_items/74yakubu_07.pdf)をご投稿や査読前にぜひご参照下さい。

世界中で新型コロナウイルス感染症が深刻化して、教育・診療・研究ほか、あらゆる面で行動制限が要されております。このような時こそ、信州大学医学部として根拠に基づいた学術活動を行い社会貢献に努めるべきと強く思います。

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出版委員長：杠 俊介  
出版委員：古庄知己、和田有子、小山淳一  
医学部図書館：後閑杜登

### 信州大学医学部医学科・大学院医学系研究科 ・医学部附属病院業績録 第47号

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