

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.50(2021)



信州大学医学部業績録編集要項（抜粋）

（令和4年11月24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を持ち、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,
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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. 50

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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

- 20210001 Dai J*, Li Y, Kametani F, Cui X, Igarashi Y, Huo J, Miyahara H, Mori M, Higuchi K : Curcumin promotes AApoAII amyloidosis and peroxisome proliferation in mice by activating the PPAR α signaling pathway. *eLife* 10: e63538, 2021.
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Metabolic Regulation

- 20210003 Jia F, Hu X, Kimura T, Tanaka N* : Impact of Dietary Fat on the Progression of Liver Fibrosis: Lessons from Animal and Cell Studies. *Int J Mol Sci* 22: 10303, 2021.
- 20210004 Aomura D, Harada M, Yamada Y, Nakajima T, Hashimoto K, Tanaka N, Kamijo Y : Pemafibrate Protects against Fatty Acid-Induced Nephropathy by Maintaining Renal Fatty Acid Metabolism. *Metabolites* 11: 372, 2021.
- 20210005 Kimura T, Tanaka N, Fujimori N, Yamazaki T, Katsuyama T, Iwashita Y, Pham J, Joshita S, Pydi SP, Umemura T : Serum thrombospondin 2 is a novel predictor for the severity in the patients with NAFLD. *Liver Int* 41: 505-514, 2021.
- 20210006 Kudo T, Horiuchi A, Kyodo R, Horiuchi I, Arai N, Kajiyama M, Tanaka N : Linked colour imaging versus white-light colonoscopy for the detection of flat colorectal lesions: A randomized controlled trial. *Colorectal Dis* 23: 1414-1420, 2021.
- 20210007 Koshu K, Ikeda T, Tamura D, Muramatsu K, Osaka H, Ono S, Adachi K, Nanba E, Nakajima T, Yamagata T : Gallbladder cancer with ascites in a child with metachromatic leukodystrophy. *Brain Dev* 43: 140-143, 2021.
- 20210008 Diao P, Jia F, Wang X, Hua X, Kimura T, Nakajima T, Aoyama T, Moriya K, Koike K, Tanaka N* : Mechanisms of Steatosis-Derived Hepatocarcinogenesis: Lessons from HCV Core Gene Transgenic Mice. *Engineering* 7: 1797-1805, 2021.

Cardiovascular Research

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- 20210011 Sakurai T*, Shindo T : Production of single- and multiple-gene-modified mice via maternal SpCas9-based gene editing. *STAR Protoc* 2(2): 100509, 2021.
- 20210012 Cui N, Sakurai T, Kamiyoshi A, Ichikawa-Shindo Y, Kawate H, Tanaka M, Tanaka M, Wei Y, Kakihara S, Zhao Y, Aruga K, Kawagishi H, Nakada T, Yamada M, Shindo T* : Adrenomedullin-RAMP2 and -RAMP3 systems regulate cardiac homeostasis during cardiovascular stress. *Endocrinology* 162(3): 1-20, 2021.
- 20210013 Wei Y, Tanaka M, Sakurai T, Kamiyoshi A, Ichikawa-Shindo Y, Kawate H, Cui N, Kakihara S, Zhao Y, Aruga K, Sanjo H, Shindo T* : Adrenomedullin ameliorates pulmonary fibrosis by regulating TGF- β -Smads Signaling and Myofibroblast Differentiation. *Endocrinology* 162(8): 1-22, 2021.

Sports Medical Sciences

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- 20210015 Horiuchi M, Hasegawa T, Nose H : Effect of Carbohydrate-Electrolyte Solution Including Bicarbonate Ion Ad Libitum Ingestion on Urine Bicarbonate Retention during Mountain Trekking: A Randomized, Controlled Pilot Study. *Int J Environ Res Public Health* 18(4): 1441, 2021.
- 20210016 Nose H, Morikawa M, Furihata M, and Masaki

S* : High-intensity interval walking training using internet of things (IoT): past and future. *J Phys Fitness Sports Med* 10: 139-144, 2021.

Molecular Pathophysiology

20210017 Kakino A, Fujita Y, Ke LY, Chan HC, Tsai MH, Dai CY, Chen CH, Sawamura T* : Adiponectin forms a complex with atherogenic LDL and inhibits its downstream effects. *J Lipid Res* 62: 100001, 2021.

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20210019 Yokoyama S, Kawai T, Yamamoto K, Yibin H, Yamamoto H, Kakino A, Takeshita H, Nozato Y, Fujimoto T, Hongyo K, Takahashi T, Nakagami F, Akasaka H, Takami Y, Takeya Y, Sugimoto K, Sawamura T, Rakugi H : RAGE ligands stimulate angiotensin II type I receptor (AT1) via RAGE/AT1 complex on the cell membrane. *Sci Rep* 11: 5759, 2021.

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Molecular Pharmacology

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Pathology

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20210035 Shigemura T, Maruyama Y, Shigeto S, Nakazawa Y, Kanno H : Orbital Epstein-Barr virus-related post-transplant lymphoproliferative disorder in a 13-year-old girl with cord blood transplantation. *Transpl Infect Dis* 23: e13536, 2021.

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Molecular and Cellular Immunology

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Medical Genetics

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20210041 Beck DB, Basar MA, Asmar AJ, Thompson JJ, Oda H, Uehara DT, Saida K, Pajusalu S, Talvik I, D'Souza P, Bodurtha J, Mu W, Barañano KW, Miyake N, Wang R, Kempers M, Tamada T, Nishimura Y, Okada S, Kosho T, Dale R, Mitra A, Macnamara E; Undiagnosed Diseases Network; Matsumoto N, Inazawa J, Walkiewicz M, Öunap K, Tiftt CJ, Aksentjevich I, Kastner DL, Rocha PP, Werner A : Linkage-specific deubiquitylation by OTUD5 defines an embryonic pathway intolerant to genomic variation . *Sci Adv* 7: eabe2116, 2021.

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- 20210050 Nitahara-Kasahara Y, Posadas-Herrera G, Mizumoto S, Nakamura-Takahashi A, Inoue YU, Inoue T, Nomura Y, Takeda S, Yamada S, Kosho T, Okada T : Myopathy Associated With Dermatan Sulfate-Deficient Decorin and Myostatin in Musculocontractural Ehlers-Danlos Syndrome: A Mouse Model Investigation . *Front Cell Dev Biol* 9: 695021, 2021.
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- 20210052 Hara-Isono K, Matsubara K, Hamada R, Shimada S, Yamaguchi T, Wakui K, Miyazaki O, Muroya K, Kurosawa K, Fukami M, Ogata T, Kosho T, Kagami M : A patient with Silver-Russell syndrome with multilocus imprinting disturbance, and Schimke immunosseous dysplasia unmasked by uniparental isodisomy of chromosome 2 . *J Hum Genet* 66: 1121-1126, 2021.
- 20210053 Nitahara-Kasahara Y, Mizumoto S, Inoue YU, Saka S, Posadas-Herrera G, Nakamura-Takahashi A, Takahashi Y, Hashimoto A, Konishi K, Miyata S, Masuda C, Matsumoto E, Maruoka Y, Yoshizawa T, Tanase T, Inoue T, Yamada S, Nomura Y, Takeda S, Watanabe A, Kosho T, Okada T : A new mouse model of Ehlers-Danlos syndrome generated using CRISPR/Cas9-mediated genomic editing. *Dis Model Mech* 14: dmm048963, 2021.
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Preventive Medicine and Public Health

- 20210055 Committee for Recommendation of Occupational Exposure Limits, Japan Society for Occupational Health, Araki A, Azuma K, Endo G, Endo Y, Fukushima T, Hara K, Harada K, Hori H, Horie S, Horiguchi H, Ichiba M, Ichihara G, Ishitake T, Ito A, Ito Y, Iwasawa S, Kakamu T, Kamijima M, Karita K, Kawai T, Kawamoto T, Kishi R, Kumagai S, Matsumoto A, Miyagawa M, Miyauchi H, Morimoto Y, Nagano K, Naito H, Nakajima T, Nakano M, Nomiyama T*, Okuda H, Okuda M, Omae K, Sato K, Sobue T, Suwazono Y, Takebayashi T, Takeshita T, Takeuchi A, Takeuchi A, Tanaka S, Tsuji M, Tsukahara T, Ueno S, Ueyama J, Umeda Y, Yamamoto K, Yamano Y, Yamauchi T and Yano E : Occupational exposure limits for acetaldehyde, 2-bromopropane, glyphosate, manganese and inorganic manganese compounds, and zinc oxide nanoparticle, and the biological exposure indices for cadmium and cadmium compounds and ethylbenzene, and carcinogenicity, occupational sensitizer, and reproductive toxicant classifications. *J Occup Health* 63(1): e12294, 2021.
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- 20210059 Sasayama D, Kudo T, Kaneko W, Kuge R, Koizumi N, Nomiyama T, Washizuka S, Honda H : Brief Report: Cumulative Incidence of Autism Spectrum Disorder Before School Entry in a Thoroughly Screened Population. *J*

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Legal Medicine

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20210061 Sato N, Shiozaki T, Otagiri T, Hayashi T, Kobayashi K, Asamura H : A Case of Infant Suffocation due to Incorrect Use of the Nursing Pillow. Res Pract Forens Med 64: 183-186, 2021.

Regenerative Science and Medicine

20210062 Takemoto Y, Kadota S, Minami I, Otsuka S, Okuda S, Abo M, Punzalan LL, Shen Y, Shiba Y*, Uesugi M : Chemical Genetics Reveals a Role of Squalene Synthase in TGF β Signaling and Cardiomyogenesis. Angew Chem Int Ed Engl 60: 21824-21831, 2021.

20210063 Kobayashi H, Ichimura H, Ohashi N, Shiba Y* : Transplantation of Pluripotent Stem Cell-Derived Cardiomyocytes into a Myocardial Infarction Model of Cynomolgus Monkey. Methods Mol Biol 2320: 295-302, 2021.

Medicine I

(Respirology, Infectious Disease & Allergology)

20210064 Komatsu M, Yamamoto H*, Kitaguchi Y, Kawakami S, Matsushita M, Uehara T, Kinjo T, Wada Y, Ichiyama T, Urushihata K, Ushiki A, Yasuo M, Hanaoka M : Clinical characteristics of non-idiopathic pulmonary fibrosis, progressive fibrosing interstitial lung diseases: A Single-center retrospective study . Medicine 100(13): e25322, 2021.

20210065 Nozawa S, Urushihata K*, Machida R, Hanaoka M : The risk assessment by clinical background and cephalometry for obstructive sleep apnea with CPAP indication in Japanese . Sleep and Biological Rhythms 19: 145-154, 2021.

20210066 Koizumi T, Kanda S, Nihonmatu R, Gomi D, Sekiguchi N, Noguchi T, Fukushima T, Kobayashi T, Yamamoto H, Takeda T : Primary mediastinal germ cell tumors- A retrospective analysis of >30 years of experience in a single institution. Thoracic Cancer 12: 807-813, 2021.

20210067 Kawabata H, Fujimoto S, Sakai T, Yanagisawa H, Kitawaki T, Nara K, Hagihara M, Yamamoto H :

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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50号をお届けします。第1号の業績録には、1972年に発表された英語論文55本（全論文339本）が掲載されておりました。それから50年の歳月が流れ、2021年に信州大学医学部から発表された英語論文数は586本と、10倍以上になりました。診療や教育で忙しい中、論文を発表された先生方の熱意、努力に敬意を表します。今回、区切りとなる第50号の業績録を担当させて頂き、大変光栄です。出版委員会の同志であります堀内哲吉教授、福山哲広先生、北沢将人先生には、業績録に掲載可能な論文を厳格に審査して頂きました。そして医学部図書館の後閑壮登様、滝口智子様には、事務作業で大変お世話になりました。皆様に厚く御礼申し上げます。

研究は大学の使命であり、その成果を論文として発表することは大学人の責務です。研究を綿密に計画してから、新たなエビデンスを得て、それを論理的思考に基づいて論文にまとめ、学術雑誌に発表するまでに、多大な労力と時間を要します。信州大学医学部から発表された英語論文数は2019年 445本、2020年 543本、2021年 586本と、年々増加しています。業績録を詳細に見ますと、誰がどのような研究を行っているか、明確に理解できます。是非本号を注意深くご覧頂き、我々の研究活動の「今と未来」を考える機会にして頂きたいです。

現在の研究の特徴の一つとして、膨大な臨床データを用いた多施設共同研究の普及が挙げられます。データを他施設に提供することで、研究協力者として論文に名前を連ねることができますが、そのような研究は信州大学オリジナルとは言えません。そこで本号から、コレスポンスオーサーにアスタリスクをつけ、論文の責任者を明示することにしました。各教室でアスタリスクのついた論文が毎年増えていく、そして将来の信州大学医学部を担う若手研究者・医師にアスタリスクがつくことを期待しています。

また、他大学の業績録を見ますと、原著・症例報告・総説と分けて表示しているケースが多いです。研究成果は原著として発表されますので、コレスポンスを取っている原著論文数が、その大学の研究活動をより正確に表しているとも言えます。今後、我々の業績録でも、そのような区分けを導入したいと考えております。

さらに、各教室が現在注力している研究テーマを把握できるように、2021年から教室代表論文リストを作成し、公開しています (<https://www.shinshu-u.ac.jp/faculty/medicine/international/>)。業績録と合わせて、ご一読頂けますと幸いです。

最後に、この業績録が信州大学医学部の研究活動のさらなる活性化につながることを祈念し、あとがきとさせて頂きます。関係者の皆様、本当にありがとうございました。

田中直樹

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