API、AVI原著論文 リスト

2024/12/7

資料NO	施 設 名	題 名	誌 名	著 者	リンク先
1	埼玉医大 代謝内科	2型糖尿病患者のオシロメトリック血圧測定による血管指標とFMD,IMTとの比較	Progress in Medicine 30:2003-2007, 2010.	秋山義隆、久野裕輝、早川尚雅、重藤誠、枡澤政広、岡部正、松田昌文	http://jglobal.jst.go.jp/public/20090422/201002222920778530
2	Advanced Industrial Science and Technology (AIST) (国)産業技術総合研究所	Non-invasive assessment of arterial stiffness using oscillometric blood pressure measurement （オシロメトリック血圧計を用いた動脈スティフネス評価方法）	BioMedical Engineering OnLine 2012, 11:6	Hidehiko Komine*, Yoshiyuki Asai, Takashi Yokoi and Mutsuko Yoshizawa	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3359259/
3	(国研)理化学研究所	A computational model of the cardiovascular system coupled with an upper-arm oscillometric cuff and its application to studying the suprasystolic cuff oscillation wave, concerning its value in assessing arterial stiffness （上腕オシロメトリックカフに連結された心血管系の計算モデルと、動脈硬度の評価における suprasystricカフの振動波の研究応用）	Computer Methods in Biomechanics and Biomedical Engineering	Fuyou Liang a , Shu Takagi a b , Ryutaro Himeno c & Hao Liu d	https://www.ncbi.nlm.nih.gov/pubmed/21916678
4	Kumamoto University 熊本大学循環器内科	Association of estimated central blood pressure measured non-invasively with pulse wave velocity in patients with coronary artery disease （冠動脈疾患患者における非侵襲的に測定された推定中枢血圧と脈波伝播速度との関連）	IJC Heart & Vasculature 8 (2015) 52-54	Daisuke Sueta a, Eiichiro Yamamoto a,*, Tomoko Tanaka b, Yoshihiro Hirata a, Kenji Sakamoto a, Kenichi Tsujita a, Sunao Kojima a, Koichi Nishiyama b, Koichi Kaikita a, Seiji Hokimoto a, Hideaki Jinnouchi b, Hisao Ogawa a	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5497261/
5		The accuracy of central blood pressure waveform by novel mathematical transformation of non-invasive measurement （非侵襲的測定から新しい数学的変換によってえられる中心血圧波形の精度）	International Journal of Cardiology Available online 17 March 2015	Daisuke Suetaa, Eiichiro Yamamotoa, , , Tomoko Tanakab, Yoshihiro Hirataa, Kenji Sakamotoa, Kenichi Tsujitaa, Sunao Kojimaa, Koichi Nishayamab, Koichi Kaikitaa, Seiji Hokimotoa, Hideaki Jinnouchib, Hisao Ogawa	https://pubmed.ncbi.nlm.nih.gov/25897917/
6	The University of Tokyo 東京大学公衆衛生学教室	Association between novel arterial stiffness indices and risk factors of cardiovascular disease(新しい動脈硬化指数と心血管疾患の危険因子との関連)	BMC Cardiovascular Disorders (2016) 16:211	Masaki Okamoto1*, Fumiaki Nakamura1, Terunaga Musha2 and Yasuki Kobayashi1	https://www.ncbi.nlm.nih.gov/pubmed/27821070
7	Tohoku University 東北大学内部障害	Arterial Stiffness Measured with the Cuff Oscillometric Method Is Predictive of Exercise Capacity in Patients with Cardiac Diseases(カフオシロメトリック法で測定された動脈の硬さは、心臓病患者の運動耐容能の予測値である)	Tohoku J. Exp. Med., 2016, 239,O 1s2c7il-lo1m34etr	Yasushi Tazawa,1 Nobuyoshi Mori,1 Yoshiko Ogawa,1 Osamu Ito1 and Masahiro Kohzuki1	https://www.jstage.jst.go.jp/article/tjem/239/2/239_127/_article
8	Tokyo Medical University 東京医科大循環器内科	Comparison of the clinical significance of single cuff-based arterial stiffness parameters with that of the commonly used parameters(単一カフに基づく動脈硬化パラメータと一般的に使用されるパラメータとの臨床的意義の比較)	Journal of Cardiology xxx (2016) xxx-xxx	Shunsuke Komatsu (MD), Hirofumi Tomiyama (MD, FJCC) *, Kazutaka Kimura (MD), Chisa Matsumoto (MD), Kazuki Shiina (MD, FJCC), Akira Yamashina (MD, FJCC)	https://www.journal-of-cardiology.com/article/S0914-5087(16)30119-8/pdf
9		Increase in the Arterial Velocity Pulse Index of Patients with Peripheral Artery Disease 血管障害の評価にAVIを使用する際は、末梢動脈疾患(PAD＝peripheral arterial disease)が存在する可能性を考慮しなければならない。	Pulse 2017;5:154-160	Naotaka Murata Kazuki Shiina Jun Yamashita Nobuhiro Tanaka Taishiro Chikamori Akira Yamashina Hirofumi Tomiyama	https://www.ncbi.nlm.nih.gov/pubmed/29761091
10	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University 上海交通大学第九病院	Non-Invasive Assessment of Early Atherosclerosis Based on New Arterial Stiffness Indices Measured with an Upper-Arm Oscillometric Device(上腕オシロメトリック装置を用いて測定した新しい動脈硬さ指数に基づく早期アテローム性動脈硬化症の非侵襲的評価)	Tohoku J. Exp. Med., 2017, 241, 263-27E0a	Yaping Zhang,1,* Ping Yin,1,* Zuojun Xu,1 Yushui Xie,1 Changqian Wang,1 Yuqi Fan,1 Fuyou Liang2 and Zhaofang Yin1	https://www.jstage.jst.go.jp/article/tjem/241/4/241_263/_article
11	Yokohama City University 横浜市立大学循環器内科	Successful prediction of cardiovascular risk by new non-invasive vascular indexes using suprasystolic cuff oscillometric waveform analysis(収縮期圧以上のカフオシロメトリック波形解析を用いた新しい非侵襲的血管指標による心血管リスクの予測)	Journal of Cardiology 69 (2017) 30-37	Rie Sasaki-Nakashima (MD)a,b, Tabito Kino (MD)a,b, Lin Chen (MD)a,b, Hiroshi Doi (MD)a,b, Shintaro Minegishi (MD, PhD)a,b, Kaito Abe (MD, PhD)a,b, Teruyasu Sugano (MD, PhD)a,b, Masataka Taguri (PhD)c, Tomoaki Ishigami (MD, PhD)a,b,*	https://www.journal-of-cardiology.com/article/S0914-5087(16)30121-6/fulltext
12		New non-invasive indexes of arterial stiffness are significantly correlated with severity and complexity of coronary atherosclerosis. 動脈硬化の新しい非侵襲性指数は、冠動脈アテローム性動脈硬化症の重症度および複雑さと有意に相関する。	Clinical and Experimental Hypertension 2018 May 8:1-7.	DoiH1,2, Ishigami T1,2, Nakashima-Sasaki R1,2, Kino T1,2, Chen L1,2, Arakawa K1,2, Teranaka S1,2, Minegishi S1,2, Abe K1,2, Ishikawa T1,2, Sugano T1,2, Tamura K1	https://pubmed.ncbi.nlm.nih.gov/29737880/
13	Hitsumoto Medical Clinic ひつもと循環器内科CL	Arterial Velocity Pulse Index as a Novel Marker of Atherosclerosis Using Pulse Wave Analysis in High Sensitivity Troponin T in Hypertensive Patients(高血圧患者の高感度トロポニンTと脈波解析を応用したアテローム性動脈硬化症のマーカーとしての速度脈波指標AVI)	Cardiol Res. 2017;8(2):36-43	Takashi Hitsumoto	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5421484/
14		Relationships between the arterial velocity pulse index as a novel marker of atherosclerosis and biomarkers of cardiac or renal condition in patients with type 2 diabetes mellitus 2型糖尿病患者におけるアテローム性動脈硬化症の新規マーカーである動脈速度パルス指数と心臓または腎臓のバイオマーカーの関係	Diabetology International pp 1-8 2017	Takashi Hitsumoto	https://link.springer.com/article/10.1007/s13340-017-0329-8
15		Clinical Significance of Arterial Velocity Pulse Index in Patients With Stage B Heart Failure With Preserved Ejection Fraction 駆出率が維持されたB期心不全患者における動脈速度パルス指数の臨床的意義	Cardiol Res. 2019;10(3):142-149	Takashi Hitsumoto	https://pubmed.ncbi.nlm.nih.gov/31236176/

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17	Teikyo University of Science 帝京科学大学運動生理	New indices of arterial stiffness measured with an upper-arm oscillometric device in active versus inactive women（若い女性における運動習慣の有無と上腕オシロメトリック装置で測定された新しい動脈硬化の指数）	Physiol Rep, 6 (5), 2018, e13574, https://doi.org/10.14814/phy2.13574	Ryota Kobayashi1 , Soichiro Iwanuma2, Nobuyuki Ohashi2 & Takeo Hashiguchi2	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5827568/
18	Nagasaki University 長崎大学先進予防医学	Screening Validity of Arterial Pressure-Volume Index and Arterial Velocity-Pulse Index for Preclinical Atherosclerosis in Japanese Community-Dwelling Adults: the Nagasaki Islands Study（日本の地域社会に暮らす成人における症状発現前のアテローム性動脈硬化症のスクリーニングに対する動脈圧容積指数と動脈速度脈波指数の有効性）	J Atheroscler Thromb. 2018 Feb 3. doi: 10.5551/jat.43125. [Epub ahead of print]	Hirotomo Ymanashi	https://www.ncbi.nlm.nih.gov/pubmed/29398680
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20		Cardiac rehabilitation in patients with cardiovascular disease leads various hemodynamic parameters obtained using simple non-invasive tests to their appropriate levels 心臓血管疾患の患者の心臓リハビリテーションは、簡便な非侵襲的試験器を用いて得られた様々な血行動態パラメータを適切なレベルに導く	IJC Heart & Vasculature 17 (2017) 23-29	Makito Futami a,1, Kanta Fujimi a,b,1, Takashi Ueda a, TakuroMatsuda b, Masaomi Fujita b, Kouji Kainob, Maaya Sakamoto a, Tomoe Horita c, Rie Koyoshi a, Tadaaki Arimura a, Yuhei Shiga a, Takashi Kuwano a, Ken Kitajima a, Keijiro Saku a,d, Shin-ichiro Miura a,d,*	https://www.ncbi.nlm.nih.gov/pubmed/29201997
21	Nippon Shinyaku Co., Ltd. 日本新薬・東海大学	Effect of mangosteen pericarp extract on skin moisture and arterial stiffness: Placebo-controlled double-blinded randomized clinical trial　マンゴスチン果皮抽出物が皮膚の水分および動脈硬化に及ぼす影響：プラセボ対照二重盲検ランダム化臨床試験	Glycative Stress Research	Kazuhiro Maejima 1), Rei-ichi Ohno 2), Ryoji Nagai 2, 3), Shuji Nakata 4)	http://www.toukastress.jp/webj/article/2018/GS18-15.pdf
22	University of Miyazaki 宮崎大学循環器内科	Seasonal variation of novel arterial stiffness indexes in Japanese hypertensive patients　日本人高血圧患者における新しい動脈硬化指数の季節変動	Clinical and Experimental Hypertension	Toshihiro Kita & Kazuo Kitamura	https://www.ncbi.nlm.nih.gov/pubmed/30409046/
23	Niigata University 新潟大学医歯学総合研究科先進血管病・塞栓症治療・予防講座|新潟大学医歯学総合研究科呼吸循環外科	Relationship between high intensity transient signals at common carotid artery by paste type probe and cerebro-cardiovascular disease in the residents in the area of Chu-etsu Oki Earthquake新潟県中越沖地震被災地域一般住民における貼り付け型プローブを用いた総頸動脈のhigh intensity transient signalsと脳・心血管疾患との関連	Article in Neurosonology 32(2):46-52 · January 2019	榛沢 和彦, 伊倉 真衣子, 岡本 竹司, 大久保 由華, 土田 正則, 中島 孝, 品田 恭子, 岡村 治	https://ci.nii.ac.jp/naid/130007709115/
24	Yokohama City University 横浜市立大学循環器内科	Successful prediction of clinical outcomes using arterial velocity pulse index, a new non-invasive vascular index, in Japan 新しい非侵襲的血管指標である動脈速度脈波指標（AVI)は臨床転帰を良好に予測する	Vascular Failure 2019; 3(2): 43-50	Rie Sasaki-Nakashima1), Tomoaki Ishigami1), Tabito Kino1), Sae Teranaka-Saigo1), Lin Chen1), Hiroshi Doi1), Michiko Sugiyama1), Shintaro Minegishi1), Kentaro Arakawa1), Kaito Abe1), Hiromichi Wakui1), Kengo Azushima1), Kouichi Tamura1)2) and Kazuo Kimura1)2)	https://www.jstage.jst.go.jp/article/vascfail/3/2/3_43/_article/-char/en
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26	School of Naval Architecture, Ocean & Civil Engineering, Shanghai Jiao Tong University 上海交通大学	Theoretical Method and Clinical Experiments for Estimating Arterial Stiffness Based on Upper-Arm Cuff Oscillometric Wave	中国医疗设备 2018, Vol. 33 Issue (4): 22-28 DOI: 10.3969/j.issn.1674-1633.2018.04.006	ZHANG Xujie1, ZHANG Yaping2, YIN Zhaofang3, QIN Kairong4, LIANG Fuyou1	http://cs.china-cmd.org/zgylsb/CN/abstract/abstract3246.shtml
27	Department of Cardiology, Kurume University Medical Center,Kurume 久留米大学	Increased arterial velocity pulse index is an independent factor related to skeletal muscle mass reduction and tissue damage in patients with cardiovascular disease	Hypertension Research (2020) 43:534-542	Haruhito Harada1 ,Hisao Ikeda2 , Yasuhiro Nishiyama1 , Hiroshi Niiyama1 , Atsushi Katoh1 , Hisashi Kai1	https://www.nature.com/articles/s41440-020-0404-6
28	West China Hospital, Sichuan University 四川医学院	New indices of arterial stiffness correlate with disease severity and mid-term prognosis in acute decompensated heart failure	Internal and Emergency Medicine Official Journal of the Italian Society of Internal Medicine	Junteng Zhou, Yushu Wang, Yizhou Feng, Xiaojing Chen & Qing Zhang	https://link.springer.com/article/10.1007/s11739-020-02486-x
29	長崎県農林技術開発センター　食品加工研究室	摘果ミカンと緑茶三番茶葉を混合揉捻して製造した発酵茶摂取が動脈血管の柔軟性に及ぼす影響　—ランダム化二重盲検プラセボ対照並行群間比較試験—	Jpn Pharmacol Ther（薬理と治療）vol. 49 no. 1 2021	宮田　裕次1)　田 中　隆2)　松井　利郎3)　大曲　勝久4)　湯浅　正洋4)　山本咲暁子4)　田中　一成4)	http://www.pieronline.jp/content/article/0386-3603/49010/63
30	Juntendo University 順天堂大学	Arterial Stiffness Index and Exercise Tolerance in Patients Undergoing Cardiac Rehabilitation	Int Heart J Advance Publication	Kei Fujiwara 1, Kazunori Shimada 1 2 3, Miho Nishitani-Yokoyama 1 2, Mitsuhiro Kunimoto 1, Tomomi Matsubara 1, Rie Matsumori 1, Abidan Abulimiti 1 3, Tatsuro Aikawa 1, Shohei Ouchi 1, Megumi Shimizu 1, Kosuke Fukao 1, Tetsuro Miyazaki 1, Akio Honzawa 2, Miki Yamada 2, Masakazu Saitoh 4, Tomoyuki Morisawa 4, Tetsuya Takahashi 4, Hiroyuki Daida 1 3 4, Tohru Minamino 1 5	https://pubmed.ncbi.nlm.nih.gov/33731517/
31	Teikyo University of Science 帝京科学大学	Effect of aerobic exercise training frequency on arterial stiffness in middle-aged and elderly females	The Journal of Physical Therapy Science	Ryota Kobayashi, PhD1)*, Kenji Asaki2), Takeo Hashiguchi, PhD3), Hideyuki Negoro, MD, PhD4, 5)	https://pubmed.ncbi.nlm.nih.gov/35527837/

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34	Department of Cardiovascular Medicine, Kagoshima City Hospital, Kagoshima, Japan 鹿児島市民病院	Noninvasive Assessment of Arterial Stiffness Using Oscillometric Methods: baPWV, CAVI, API, and AVI	The official journal of the Japan Atherosclerosis Society and the Asian Pacific Society of Atherosclerosis and Vascular Diseases	Masaaki Miyata	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6143778/
35	Department of Ultrasound, First Hospital of Shanxi Medical University 山西医科大学第一医院	Relationship of arterial stiffness and centralhemodynamics with cardiovascular risk inhypertension	American Journal of Hypertension	Lin Jin,Jianxiong Chen,Mengjiao Zhang,Lei Sha,Mengmeng Cao,Lanyue Tong,Qingqing Chen,Cuiqin Shen,Lianfang Du,Zhaojun Li,Liping Liu	https://pubmed.ncbi.nlm.nih.gov/36645322/
36	Yokohama City University 横浜市立大学循環器内科	Upper-Arm SBP Decline Associated with Repeated Cuff-Oscillometric Inflation Significantly Correlated with the Arterial Stiffness Index	Journal of Clinical Medicine	Noriyuki Kawaura 1, Rie Nakashima-Sasaki 1, Hiroshi Doi 2, Kotaro Uchida 1, Takuya Sugawara 1, Sae Saigo 3,Kaito Abe 1, Kentaro Arakawa 1, Koichi Tamura 1, Kiyoshi Hibi 4 and Tomoaki Ishigami 1,*	https://pubmed.ncbi.nlm.nih.gov/36362683/
37	Shanghai General Hospital,	Relative contributions of arterial stiffness to cardiovascular disease risk score in Chinese women in framingham and China-PAR model	Frontiers in Cardiovascular Medicin	Lin Jin1,2, Jianxiong Chen3, Lingheng Wu3, Mengjiao Zhang1,Jiali Sun1, Cuiqin Shen1, Lianfang Du4, Dingqian Wang5and haojun Li1,4*	https://pubmed.ncbi.nlm.nih.gov/37396573/
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39	Nippon Shinyaku Co., Ltd.,	Effects of hot water extract of mangosteen pericarp on vascular function:Re-analysis focusing on factors affecting vascular function.	Glycative Stress Research	Kenjiro Hayashi, Aoi Kiyokawa, Kazuhiro Maejima	https://www.jstage.jst.go.jp/article/gsr/9/3/9_170/_article/-char/ja/
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41	Shanghai Jiao Tong University	Threshold values of brachial cuff-measured arterial stiffness indices determined by comparisons with the brachial-ankle pulse wave velocity: a cross-sectional study in the Chinese population	Front Cardiovasc Med	Xujie Zhang1, Yumin Jiang2, Fuyou Liang1,3* and Jianping Lu2*	https://pubmed.ncbi.nlm.nih.gov/37522090/
42	Shanghai University of Traditional Chinese Medicine	Uncoupling of the center-to-periphery arterial stiffness gradient and pulse pressure amplification in viral pneumonia infection	BMC Infectious Diseases	Lin Jin1,2, Lingheng Wu2,3, Jianxiong Chen2,3, Mengjiao Zhang2, Jiali Sun2, Cuiqin Shen2, Lianfang Du4, Xiaoyin She5 and Zhaojun Li2,4	https://pubmed.ncbi.nlm.nih.gov/37798630/
43	独立行政法人労働者健康安全機構労働安全衛生総合研究所	地場トラックドライバーの職場における血圧上昇要因の検討	令和4年度労災疾病臨床研究事業費補助金「過労死等の実態解明と防止対策に関する総合的な労働安全衛生研究」 分担研究報告書（疫学研究）	研究分担者 松元 俊	https://records.johas.go.jp/rep20220321.pdf
44	Nanjing Medical University	Association between Fruit and Vegetable Intake and Arterial Stiffness_ The China-PAR Project	Biomed Environ Sci.	Shuai Liu 1, Fang Chao Liu 2, Jian Xin Li 2, Ke Yong Huang 2, Xue Li Yang 3, Ji Chun Chen 2, Jie Cao 2, Shu Feng Chen 2, Jian Feng Huang 2, Chong Shen 4, Xiang Feng Lu 5, Dong Feng Gu 6	https://pubmed.ncbi.nlm.nih.gov/38199223/
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46	Kumamoto University 熊本大学	Efficacy of a novel non-invasive indicator of arteriosclerosis for theprediction of hypertensive disorder of pregnancy	Pregnancy Hypertension	Kaori Kishimoto,MunekageYamaguchi,Takashi Ohba,Hidetaka Katabuchi	https://www.sciencedirect.com/science/article/abs/pii/S2210778918304549
47	独立行政法人労働者健康安全機構労働安全衛生総合研究所	トラックドライバーの夜間早朝出発を伴う不規則勤務スケジュールが血圧・動脈硬化に及ぼす影響の検討	日本労働研究雑誌	松元 俊	https://www.jil.go.jp/institute/zassi/backnumber/2024/02-03/pdf/077-092.pdf
48	Shanghai University	Association of Arterial Stiffness Indices with Framingham Cardiovascular Disease Risk Score	Cardiovasc. Med	Lin Jin1,2	https://pmc.ncbi.nlm.nih.gov/articles/PMC11266941/
49	Shanghai Jiaotong University School of Medicine	Central artery pulse pressure, not central arterial stiffness impact on all-cause mortality in patients with viral pneumonia infection	BMC Infectious Diseases	Lin Jin1,2, Jianxiong Chen1,3, Lingheng Wu1,3, Mengjiao Zhang1, Xiaobo Tang4, Cuiqin Shen1, Jiali Sun1, Lianfang Du5, Xifu Wang4 and Zhaojun Li1,5*	https://pmc.ncbi.nlm.nih.gov/articles/PMC11266941/
50	Yokohama City University 横浜市立大学循環器内科	A Noninvasive Arterial Stiffness Index to Estimate the Severity of Coronary Atherosclerosis in Patients Undergoing Coronary Angiography	Journal of Vascular Diseases	Kotaro Uchida 1, Lin Chen 1, Shintaro Minegishi 1, Takuya Sugawara 1, Rie Sasaki-Nakashima 1, Kentaro Arakawa 1, Hiroshi Doi 1, Tabito Kino 1, Naoki Tada 1, Sho Tarumi 1, Noriyuki Kawaura 1, Kouichi Tamura 1, Kiyoshi Hibi 2 and Tomoaki Ishigami 1,*	https://www.mdpi.com/2813-2475/3/2/14
51	Research Centre for Biomedical Engineering, City, University of London	Photoplethysmography for the Assessment of Arterial Stiffness	Sensors	Parmis Karimpour, James M. May and Panicos A. Kyriacou	https://pmc.ncbi.nlm.nih.gov/articles/PMC10747425/
52	就実大学	薬局における血管病変に着目した脳心血管疾患の個別化セルフメディケーションの構築	令和5年度 調査・研究報告書	出石 恭久	https://www.otc-spf.jp/wp-content/uploads/2024/05/r5b-15.pdf

53	Yokohama City University 横浜市立大学循環器内科	AI-Induced Vascular Ages Are a Measurable Residual Risk for Cardiovascular Diseases in the Japanese Population	Journal of Clinical Medicine	Hikaru Ueno 1,†, Kotaro Uchida 1,†, Honoka Kawashima 1, Hiroto Hommo 1, Takuya Sugawara 1, Shintaro Minegishi 1 , Lin Chen 1,2, Rie Sasaki-Nakashima 1, Tabito Kino 1 , Kentaro Arakawa 1, Michiko Sugiyama 1, Koichi Tamura 3, Kiyoshi Hibi 1 and Tomoaki Ishigami 1,*	https://pmc.ncbi.nlm.nih.gov/articles/PMC12251095/
54	新潟大学	半導体機能繊維の皮膚接触部位及び遠隔の循環改善作用と応用の可能性について	日皮協ジャーナル	榛沢　和彦　　伊倉 真衣子	https://jglobal.jst.go.jp/detail?JGLOBAL_ID=202202262190638494