

## 2017 年度研究業績

- **Hagihara Y, Nara T.** Morphological features of the fibula in Jomon hunter - gatherers from the shell mounds of the Pacific coastal area. *American Journal of Physical Anthropology*. 2017:160:4 708-718
- **Hagihara Y, Nara T.** Diaphyseal cross-sectional geometry of the metatarsal bones in the Jomon population. *American Journal of Physical Anthropology*. [in press]
- **Saeki F, Sawada J,** Suzuki T, Hatano Y, Shinoda K. Morphological and paleopathological report of the Late Jomon human remains from the Daizen-no-minami site, Chiba Prefecture. *Bulletin of National Museum of Nature and Science, Series D*.2017:43:17-31
- Sawaura R, **Sawada J,** Sato T, Suzuki T, Sasaki K. Late Pleistocene hares of the Japanese archipelago: Paleobiogeographic implication at the Last Glacial Maximum International. *Journal of Osteoarchaeology*. [in press]
- **Tamakoshi K,** Ishida K, Kawanaka K, Takamatsu Y, **Tamaki H.** Motor skills training enhances AMPA receptor subunit mRNA expression in the ipsilateral sensorimotor cortex and striatum of rats following intracerebral hemorrhage. *Journal of Stroke and Cerebrovascular Diseases*. 2017:26:10: 2232-2239
- **Takahashi H, Tamaki H,** Oyama M, Yamamoto N, Onishi H. Time-dependent changes in the structure of calcified fibrocartilage in the rat Achilles tendon-bone interface with sciatic denervation. *Anatomical Record*. 2017:300:12:2166-2174
- Takahashi H, Tamaki H, Yamamoto N, Onishi H. Articular chondrocyte alignment in the rat after surgically induced osteoarthritis. *J Phys Ther Sci*. 2017:29:4:598-604
- **Hayao K, Tamaki H,** Nakagawa K, **Tamakoshi K, Takahashi H,** Yotani K, Ogita F, Yamamoto N, Onishi H. Effects of Streptomycin Administration on Increases in Skeletal Muscle Fiber Permeability and Size Following Eccentric Muscle Contractions *Anatomical Record*. 2017
- Kirimoto H, **Tamaki H,** Otsuru N, Yamashiro K, **Onishi H,** Nojima I, Oliviero A. Transcranial Static Magnetic Field Stimulation over the Primary Motor Cortex Induces Plastic Changes in Cortical Nociceptive Processing. *Front Hum Neurosci*. 2018 [in press]
- **Miyaguchi S, Kojima S, Sasaki R,** Kotan S, Kirimoto H, **Tamaki H, Onishi H.** Decrease in short-latency afferent inhibition during corticomotor postexercise depression following repetitive finger movement. *Brain and Behavior*. 2017:7:7

- **Miyaguchi S, Kojima S, Sasaki R, Tamaki H, Onishi H.** Modulation of short-latency afferent inhibition and short-interval intracortical inhibition by test stimulus intensity and motor evoked potential amplitude. *Neuroreport*. 2017;28:18:1202-1207
- **Nakayama H, Onishi H,** Nojima M, Ishizu K, Kubo M. Analysis of scapular kinematics in three planes of shoulder elevation: A comparison between men and women. *The Journal of Physical Fitness and Sports Medicine*. 2018;7:65-74
- **Otsuka R, Sasaki R, Tsuiki S, Kojima S, Onishi H.** Post-exercise cortical depression following repetitive passive finger movement. *Neurosci Lett*. 2017;656:24:89-93
- **Sasaki R, Nakagawa M, Tsuiki S, Miyaguchi S, Kojima S, Saito K, Inukai Y, Masaki M, Otsuru N, Onishi H.** Regulation of primary motor cortex excitability by repetitive passive finger movement frequency. *Neuroscience* 2017 357 15 232-240
- **Nakagawa M, Sasaki R, Tsuiki S, Miyaguchi S, Kojima S, Saito K, Inukai Y, Onishi H.** Effects of passive finger movement on cortical excitability. *Frontiers in Human Neuroscience*. 2017;11:3: 216
- **Masaki M,** Aoyama T, Murakami T, Yanase K, Ji X, Tateuchi H, Ichihashi N. Association of low back pain with muscle stiffness and muscle mass of the lumbar back muscles, and sagittal spinal alignment in young and middle-aged medical workers. *Clin Biomech (Bristol, Avon)*. 2017;49: 128-133
- **Inukai Y, Otsuru N, Masaki M, Saito K, Miyaguchi S, Kojima S, Onishi H.** Effect of noisy galvanic vestibular stimulation on center of pressure sway of static standing posture. *Brain Stimulation*. 2017;11:85-93
- **Kojima S, Onishi H, Miyaguchi S,** Kotan S, **Sasaki R, Nakagawa M,** Kirimoto H, **Tamaki H.** Modulation of corticospinal excitability depends on the pattern of mechanical tactile stimulation. *Neural Plasticity*. 2018. [in press]
- Hashiguchi Y, Ohata K, Osako S, Kitatani R, Aga Y, **Masaki M,** Yamada S. Number of synergies is dependent on spasticity and gait kinetics in children with cerebral palsy. *Pediatr Phys Ther*. 2018;30: 34-38
- Yoshino A, Okamoto Y, Doi M, **Otsuru N,** Okada G, Takamura M, Ichikawa N, Yokoyama S, Yamashita H, Yamawaki S. Regional brain functions in the resting state indicative of potential differences between depression and chronic pain. *Scientific Reports*. 2017;7:1:30003
- **中山裕子, 大西秀明,** 野嶋素子, 石津克人, 久保雅義. 負荷の有無が肩関節挙上運動時における肩甲骨動態に及ぼす影響. *日本基礎理学療法学雑誌*. 2017 : 20 : 51-60
- **大鶴直史.** 感覚環境の変化検出システム. *日本基礎理学療法学雑誌*. 2017 : 20 : 2-7
- **Tsubaki A, Morishita S,** Tokunaga Y, Sato D, Tamaki H, Yamazaki Y, Qin W, **Onishi H.** Changes in Cerebral Oxyhaemoglobin Levels During and After a Single 20-minute

Bout of Moderate-intensity Cycling. *Advances in Experimental Medicine and Biology*. [In press]

- Yawata A, **Tsubaki A**, Yawata H, Takai H, Matsumoto K, Takehara N, **Kobayashi R**. Voluntary cough intensity and its influencing factors differ by sex in community-dwelling adults. *Ther Adv Respir Dis*. 2017; 11:12: 427-433
- **Ohyanagi H, Tsubaki A, Morishita S, Obata H, Qin W, Onishi H**. Changes in the Prefrontal Cortex Oxygenation Levels during Cycling in the Supine and Upright Positions. *Advances in Experimental Medicine and Biology*. [In press]
- Yamauchi S, **Morishita S**, Mabuchi S, Kodama N, Domen K. Examination of Simple Outcome Measures and Cut-off Values Related to Walking Independence of Inpatients with Medical Diseases in Acute Care Hospitals. *Progress in Rehabilitation Medicine*. 2017; 2
- Wakasugi T, **Morishita S**, Kaida K, Itani Y, Kodama N, Ikegame K, Ogawa H, Domen K. Impaired skeletal muscle oxygenation following allogeneic hematopoietic stem cell transplantation is associated with exercise capacity. *Support Care Cancer*. [in press]
- **Edama M**, Kageyama I, **Kikumoto T, Nakamura M, Ito W, Nakamura E, Takabayashi T, Hirabayashi R, Inai T, Onishi H**. The effects on calcaneofibular ligament function of differences in the angle of the calcaneofibular ligament with respect to the long axis of the fibula: A simulation study. *J Foot Ankle Res*. 2017; 28;10:60.
- **Edama M**, Kageyama I, **Kikumoto T, Nakamura M, Ito W, Nakamura E, Hirabayashi R, Takabayashi T, Inai T, Onishi H**. Morphological features of the anterior talofibular ligament by the number of fiber bundles. *Annals of Anatomy*. 2017; 28; 216:69-74.
- **Nakamura M**, Ikezoe T, Nishishita S, Umehara J, Kimura M, Ichihashi N. Acute effects of static stretching on the shear elastic moduli of the medial and lateral gastrocnemius muscles in young and elderly women. *Musculoskelet Sci Pract*. 2017; 32:98-103.
- **Ohya S, Nakamura M, Aoki T, Suzuki D, Kikumoto T, Nakamura E, Ito W, Hirabayashi R, Takabayashi T, Edama M**. The effect of running task on muscle shear elastic modulus of posterior lower leg. *J Foot Ankle Res*. 2017; 12; 10:56.
- Sakata J, **Nakamura E**, Suzuki T, Suzukawa M, Akaike A, Shimizu K, Hirose N. Efficacy of a prevention program for medial elbow injuries in youth baseball players. *American Journal of Sports Medicine*. 2018;46; 2: 460-469

- Umehara J, Kusano K, **Nakamura M**, Morishita K, Nishishita S, Tanaka H, Shimizu I, Ichihashi N. Scapular kinematic and shoulder muscle activity alterations following serratus anterior muscle fatigue. J Shoulder Elbow Surg. [in press]
- Yanase K, Hasegawa S, **Nakamura M**, Yamauchi T, Nishishita S, Araki K, Umehara J, Sato K, Ibuki S, Ichihashi N. Electrical Stimulation to the Infraspinatus on Hypertrophy and Strength of the Shoulder. Int J Sports Med. [in press]
- Umehara J, **Nakamura M**, Nishishita S, Tanaka H, Kusano K, Ichihashi N. Scapular kinematic alterations during arm elevation with decrease in pectoralis minor stiffness after stretching in healthy individuals. J Shoulder Elbow Surg. [in press]
- Ikezoe T, Kobayashi T, **Nakamura M**, Ichihashi N. Effects of low-load, higher-repetition versus high-load, lower-repetition resistance training not performed to failure on muscle strength, mass, and echo intensity in healthy young men: a time-course study. J Strength Cond Res. [in press]
- Kusano K, Nishishita S, **Nakamura M**, Tanaka H, Umehara J, Ichihashi N. Acute effect and time course of extension and internal rotation stretching of the shoulder on infraspinatus muscle hardness. J Shoulder Elbow Surg. 2017; S1058-2746(17)30256-2.
- Yanase K, Hasegawa S, **Nakamura M**, Tanaka H, Umehara J, Araki K, Ibuki S, Ichihashi N. Acute Effect Of Electrical Stimulation On The Infraspinatus Muscle Using Different Types Of Muscle Contractions And Shoulder Joint Positions. Gazette Medica Italiana. 2017: 176(12):647-54
- **江玉睦明**, 影山幾男, **中村雅俊**, **菊元孝則**, **伊藤涉**, **高林知也**, **稲井卓真**, **大森豪**, **大西秀明**. 前距腓靭帯の線維束数の違いと足関節機能との関係. J. sports Injury: 2017: 21
- **江玉睦明**. アキレス腱障害発生メカニズムの解剖学的検証. 日本基礎理学療法学雑誌. 2017: 20: 2: 16-22
- **菊元孝則**, **江玉睦明**, **中村雅俊**, 宮川俊平. 女子バスケットボール選手の股関節外転筋力が片脚着地時の膝関節アライメントに及ぼす影響. 体力科学. 2017:66:6: 399-405
- **菊元孝則**, 宮川俊平. 片脚着地時における矢状面上の下肢関節戦略. 理学療法科学. 2018:33: 2
- **佐々木美憂**, **江玉睦明**, **奥山遼**, **後藤聡介**. 月経周期における他動的膝関節屈曲時の膝蓋腱長の変化. 体力科学. 2017 [印刷中]
- 樋口明奈, 本間未来, 山本望由, 田中康雄, 濱野礼奈, **江玉睦明**. 月経周期における大学女子バレーボール選手の足関節機能の変化—筋力, 関節位置覚, 関節柔軟性に着目して—. 理学療法科学. 2017: 32:4: 503-507

- 青木孝史, 中村雅俊, 鈴木大地, 大箭周平, 江玉睦明. 皮膚冷刺激下での低負荷筋力トレーニングが筋厚および筋力に及ぼす影響. *The Japanese Journal of Rehabilitation Medicine*. 2018 [印刷中]
- Sasaguri T, **Taguchi T**, Murata Y, Kobayashi K, Iizasa S, Iizasa E, Tsuda M, Hirakawa N, Hara H, Yoshida H, Yasaka T. Interleukin-27 controls basal pain threshold in physiological and pathological conditions. *Scientific Reports* (in press).
- Mori T, Agata N, Itoh Y, Miyazu-Inoue M, Sokabe M, **Taguchi T**, Kawakami K. Post-injury stretch promotes recovery in a rat model of muscle damage induced by lengthening contractions. *Journal of Physiological Sciences* (in press).
- Morikawa Y, Takamoto K, Nishimaru H, **Taguchi T**, Urakawa S, Sakai S, Ono T, Nishijo H. Compression at myofascial trigger point on chronic neck pain provides pain relief through the prefrontal cortex and autonomic nervous system: a pilot study. *Frontiers in Neuro science* 68(4):483-492, 2018.
- Hayashi K, Katanosaka K, Abe M, Yamanaka A, Nosaka K, Mizumura K, **Taguchi T**. Muscular mechanical hyperalgesia after lengthening contractions in rats depends on stretch velocity and range of motion. *European Journal of Pain* 21(1): 125-139, 2017.
- Uta D, **Taguchi T**. Peripheral and spinal mechanisms of nociceptive transmission in a rat model of fibromyalgia. *Pain Research* 32(4): 280-287, 2017.
- 阿部真博, 林功栄, 若月康次, 田口徹. ラット筋機械痛覚過敏に対するネオビタカイン®の鎮痛効果. *ペインクリニック* 38(5): 645-654, 2017.
- **Takabayashi T, Edama M, Nakamura M, Nakamura E, Inai T, Kubo M**. Gender differences associated with Rearfoot, Midfoot, and Forefoot Kinematics during running. *European Journal of Sport Science*. 2017: 17: 10: 1289-1296
- **Takabayashi T, Edama M, Nakamura E, Yokoyama E, Kanaya C, Kubo M**. Coordination among the rearfoot, midfoot, and forefoot during walking. *Journal of Foot Ankle Research*. 2017:10:42: 10.1186/s13047-017-0224-3
- **Inai T, Takabayashi T, Edama M, Kubo M**. Evaluation of factors that affect hip moment impulse during gait: A systematic review. *Gait & Posture*. 2018 [in press]
- **Inai T, Takabayashi T, Edama M, Kubo M**. Relationship Between Hip Flexion Contracture and Hip-Joint Contact Force in Standing Posture: A Computer Simulation Study. *Journal of Ergonomics*. 2017 :7: 3. 10.4172/2165-7556.1000194
- Sargent B, Reimann H, **Kubo M**, Fetters L. INFANT INTRALIMB COORDINATION AND TORQUE PRODUCTION: Influence of Prematurity. *Infant Behav Dev*. 2017:49: 129-140

- Sargent B, **Kubo M**, Fetters L. Infant Discovery Learning and Lower Extremity Coordination: Influence of Prematurity. Physical & Occupational Therapy in Pediatrics. 2018;38:2:210-225
- **高林知也**, 江玉睦明, 中村雅俊, 中村絵美, 金谷知晶, 柳宗, 稲井卓真, 大森豪, **久保雅義**. 静的な足部評価方法である Arch height index と動的な中足部機能との関連性. J Sports Injury. 2017: 22
- **高林知也**, 江玉睦明, 中村雅俊, 中村絵美, 金谷知晶, 柳宗, **稲井卓真**, **久保雅義**. ランニングにおける下腿と後足部間の協調性パターン. 理学療法学. 2017;44:5: 332-339
- **Kitamura K**, Watanabe Y, Nakamura K, Takahashi A, Takachi R, Oshiki R, **Kobayashi R**, Saito T, Tsugane S, Sasaki A. PLoS One. 2017;12:10
- **神田賢**, **佐藤成登志**, **北村拓也**, **多田葉月**. 腰部筋持久力テスト：脊柱変形のある高齢者への実施の検討. 日本運動器疼痛学会誌. 2017;9:2: 210-219
- **神田賢**, **北村拓也**, **多田葉月**, **金子巧**, **井出愛実**, 郷津良太, **古西勇**, 渡辺慶, **佐藤成登志**. 青年期女性の慢性肩こり有訴に影響を及ぼす因子－頸胸椎アライメント, 頸部屈筋群持久力, 頸部 ADL 機能に着目して－日本運動器疼痛学会誌. 2018: 10:1
- **神田賢**, **北村拓也**, **多田葉月**, **金子巧**, **井出愛実**, 郷津良太, **古西勇**, **佐藤成登志**. 青年期女性における頸胸椎アライメントと頸部屈筋群持久力との関連性. 理学療法新潟. 2018: 21
- **多田葉月**, **神田賢**, **佐藤成登志**. バレーボール選手における背部体幹筋の筋厚-スパイク動作時に注目して-. 理学療法新潟. 2018: 21
- **北村拓也**, **佐藤成登志**, **神田賢**, 渡辺慶, 山本智章. 慢性腰痛を有する成人脊柱変形者に対する 3 ヶ月の介入効果. 日本運動器疼痛学会誌. 2017: 9:2: 229-236
- 山下優子, 関奈緒, 梅田君枝, 田邊直仁, 篠田邦彦, **古西勇**, 関谷昭吉, 関井愛紀子, 太田玉紀. メディカルフィットネス利用経験者における性格特性と運動継続との関連. 日本公衆衛生雑誌. 2017;64:11: 664-671
- 相馬俊雄, 丹保信人. 体幹ベルト付下肢装具歩行の身体動揺解析. 臨床バイオメカニクス. 2017;38:373-378
- 内田貴洋, **相馬俊雄**. 等尺性膝関節屈曲運動における大腿四頭筋の運動制御. 理学療法科学. 2017;32:1:51-55
- 菅井拓哉, **相馬俊雄**. 下腿の回旋肢位の違いが膝関節伸展トルクおよび仕事量に及ぼす影響. 理学療法科学. 2017;32:1:17-20
- 前田雄, 林豊彦, 須田祐紀, 高橋素彦, 勝平純司, 東江由起夫, **相馬俊雄**, **佐藤成登志**, 霜鳥大希. 下腿義足ソケット適合評価のために構築した生体計測システムの評価 臨床バイオメカニクス. 2017;38:379-388

- Takahashi R, **Koibuchi R, Saeki F, Hagihara Y**, Yoneda M, Adachi N, **Nara T**. Mitochondrial DNA analysis of the human skeletons excavated from the Shomyoji shell midden site, Kanagawa, Japan. *Anthropological Science*, 2019; 127: 65-72.
- **奈良貴史**. 人骨の発掘方法-取り上げから報告書まで-. 季刊考古学 2018 : 143: 18-21.
- **澤田純明**. 人骨のミクロ・マクロ形態分析による生活環境復元. 考古学ジャーナル. 2018 ; 714 : 10-14.
- **澤田純明**, 福井淳一, 高島孝宗. 道北更新世人類化石探索の予備的調査報告. 枝幸研究. 2019 ; 10 : 13-23.
- 藤澤珠織, **澤田純明**, **奈良貴史**, 鈴木敏彦, 米田穰, 大森貴之, 尾寄大真, 小山彦逸, 高部由夏, 斉藤慶史. 史跡二ツ森貝塚から出土した縄文時代中期人骨群. 青森県考古学. 2019 ; 27 : 21-40.
- **Tamakoshi K**, Ishida K, **Hayao K, Takahashi H, Tamaki H**. Behavioral Effect of Short- and Long-Term Exercise on Motor Functional Recovery after Intracerebral Hemorrhage in Rats. *Journal of Stroke and Cerebrovascular Diseases*. 2018;27(12) 3630-3635
- **Tamakoshi K**, Nishii Y, Minematsu A. Upward running is more beneficial than level surface or downslope running in reverting tibia bone degeneration in ovariectomized rats. *Journal of Musculoskeletal Neuronal Interactions*. 2018;18(4) 493-500
- KawamotoE, **Tamakoshi K**, Song-Gyu Ra, Masuda H, Kawanaka K. Immobilization rapidly induces thioredoxin-interacting protein (TXNIP) gene expression together with insulin resistance in rat skeletal muscle. *Journal of Applied Physiology*. 2018;125(2) 596-604
- **Onishi H, Otsuru N, Kojima S, Miyaguchi S, Saito K, Inukai Y**, Yamashiro K, Sato D, **Tamaki H**, Shirozu H, Kameyama S. Variability and reliability of paired-pulse depression and cortical oscillation induced by median nerve stimulation. *Brain Topogr*. 2018;31(5):780-794.
- **Onishi H**. Cortical excitability following passive movement. *Physical Therapy Research*. 2018;21:23-32.
- **Inukai Y, Masaki M, Otsuru N, Saito K, Miyaguchi S, Kojima S, Onishi H**. Effect of noisy galvanic vestibular stimulation in community-dwelling elderly people: a randomised controlled trial. *J Neuroeng Rehabil*. 2018 Jul 3;15(1):63.
- **Saito K, Otsuru N, Inukai Y, Kojima S, Miyaguchi S, Tsuiki S, Sasaki R, Onishi H**. Inhibitory Mechanisms in Primary Somatosensory Cortex Mediate the Effects of Peripheral Electrical Stimulation on Tactile Spatial Discrimination. *Neuroscience*. 2018; 384: 262-274.

- **Miyaguchi S, Otsuru N, Kojima S, Saito K, Inukai Y, Masaki M, Onishi H.** Transcranial alternating current stimulation with gamma oscillations over the primary motor cortex and cerebellar hemisphere improved visuomotor performance. *Frontiers in behavioral neuroscience*. 2018.
- **Miyaguchi S, Otsuru N, Kojima S, Yokota H, Saito K, Inukai Y, Onishi H.** Gamma tACS over M1 and cerebellar hemisphere improves motor performance in a phase-specific manner. *Neuroscience Letters*. 694:64-68.2018.
- **Miyaguchi S, Otsuru N, Kojima S, Yokota H, Saito K, Inukai Y, Onishi H.** The effect of gamma tACS over the M1 region and cerebellar hemisphere does not depend on current intensity. *Journal of Clinical Neuroscience*. 65:54-58.2019.
- **Sasaki R, Tsuiki S, Miyaguchi S, Kojima S, Saito K, Inukai Y, Otsuru N, Onishi H.** Repetitive passive finger movement modulates primary somatosensory cortex excitability. *Frontiers in human neuroscience*. 2018;20;12:332.
- **Sasaki R, Tsuiki S, Miyaguchi S, Kojima S, Saito K, Inukai Y, Otsuru N, Onishi H.** Somatosensory inputs induced by passive movement facilitate primary motor cortex excitability depending on the interstimulus interval, movement velocity, and joint angle. *Neuroscience*. 2018;21;386:194-204.
- **Tsuiki S, Sasaki R, Miyaguchi S, Kojima S, Saito K, Inukai Y, Masaki M, Otsuru N, Onishi H.** The effect of combined transcranial direct current stimulation and peripheral nerve electrical stimulation on corticospinal excitability. *PLoS One*. 2019; 29;14(3):e0214592.
- **Tsuiki S, Sasaki R, Pham MV, Miyaguchi S, Kojima S, Saito K, Inukai Y, Otsuru N, Onishi H.** Repetitive passive movement modulates corticospinal excitability: Effect of movement and rest cycles and subject attention. *Front Behav Neurosci*. 2019;13:38.
- **Ishikawa N, Miyao R, Miyaguchi S, Sasaki R, Tsuiki S, Onishi H.** Corticospinal excitability following repetitive voluntary movement. *J Clin Neurosci*. 2018;57:93-98.
- **Yamashiro K, Sato D, Onishi H, Sugawara K, Otsuru N, Kirimoto H, Nakazawa S, Yamazaki Y, Shirozu H, Maruyama A.** Change-driven M100 component in the bilateral secondary somatosensory cortex: A magnetoencephalographic study. *Brain Topogr*. 2018;32:435-444.
- **大西秀明.** 生涯学習への連動を意識した卒前教育と大学院高度専門職業人プログラムの紹介. *理学療法ジャーナル*. 2018;52:1022-1025.
- **大西秀明.** 経頭蓋直流電流刺激 (tDCS) による brain doping. *Clinical Neuroscience*. 2018;36:1234-1237.



- **大鶴直史**, 木村慎二, 細井昌子, 松原貴子, 柴田政彦, 水野泰行, 西原真理, 村上孝徳, **大西秀明**. 慢性疼痛に対する認知行動療法をリハビリテーションの併用効果—いきいきリハビリノートの治療実績を含めて—. 日本運動器疼痛学会誌. 2018;10: 205-216.
- **齊藤慧**. 末梢電気刺激がもたらす神経生理学効果の検証. 日本基礎理学療法学雑誌. 2018 ; 21 (1) : 43-54. (総説)
- 木村慎二, 細井昌子, 松原貴子, 柴田政彦, 水野泰行, 西原真理, 村上孝徳, **大鶴直史**. 運動器慢性疼痛に対する認知行動療法理論に基づいた運動促進法. Jpn J Rehabil Med 2018; 55: 206-214
- **Tsubaki A, Morishita S**, Tokunaga Y, Sato D, **Qin W, Kojima S, Onishi H**. Effect of Exercise Duration on Post-exercise Persistence of Oxyhemoglobin Changes in the Premotor Cortex: A Near-infrared Spectroscopy Study in Moderate-intensity Cycling Exercise. *Advances in Experimental Medicine and Biology* (in press)
- **Morishita S, Tsubaki A**, Nashimoto S, Fu JB, **Onishi H**. Face scale rating of perceived exertion during cardiopulmonary exercise test. *BMJ Open Sport & Exercise Medicine*. 2018; 4: e000474
- **Morishita S**, Mitobe Y, **Tsubaki A**, Aoki O, Fu JB, **Onishi H**, Tsuji T. Differences in Balance Function Between Cancer Survivors and Healthy Subjects: A Pilot Study. *Integrative Cancer Therapies*. 2018; 17(4): 1144-1149: 2018
- **Ichinose Y, Morishita S, Suzuki R, Endo G, Tsubaki A**. Comparison of the Effects of Continuous and Intermittent Exercise on Cerebral Oxygenation and Cognitive Function. *Advances in Experimental Medicine and Biology*.
- **Kojima S, Morishita S, Qin W, Tsubaki A**. Cerebral Oxygenation Dynamics of the Pre-frontal Cortex and Motor-Related Area During Cardiopulmonary Exercise Test: A Near-infrared Spectroscopy Study. *Advances in Experimental Medicine and Biology*.
- **Morishita S, Tsubaki A, Nakamura M**, Nashimoto S, Fu JB, **Onishi H**. Rating of perceived exertion on resistance training in elderly subjects. Expert review of cardiovascular therapy. 2019; 17(2): 135-142
- Yamazaki Y, Sato D, Yamashiro K, **Tsubaki A, Takehara N**, Uetake Y, Nakano S, Maruyama A. Inter-individual differences in working memory improvement after acute mild and moderate aerobic exercise. *PLoS One*. 2018; 3(12): e0210053
- **遠藤 岳, 森下 慎一郎, 市瀬 裕也, 鈴木 理央, 椿 淳裕**. 持続的運動と間欠的運動が外側広筋の筋酸素動態に及ぼす影響. 理学療法科学. 2019; 34(1): 131-133
- **鈴木理央, 森下慎一郎, 市瀬裕也, 遠藤岳, 椿 淳裕**. 中等度の間欠的運動が運動中の自律神経活動・循環動態へ及ぼす影響. 理学療法科学. 2019; 34(2): 245-248
- **Morishita S, Tsubaki A**, Fu JB, Mitobe Y, **Onishi H**, Tsuji T. Cancer survivors exhibit a different relationship between muscle strength and health-related quality of

life/fatigue compared to healthy subjects. *Eur J Cancer Care (Engl)*. 2018 ;27(4):e12856.

- **Morishita S**, Wakasugi T, Tanaka T, Harada T, Kaida K, Ikegame K, Ogawa H, Domen K. Changes in Borg scale for resistance training and test of exercise tolerance in patients undergoing allogeneic hematopoietic stem cell transplantation. *Support Care Cancer*. 2018;26(9):3217-3223.
- **Morishita S**, Wakasugi T, Kaida K, Itani Y, Ikegame K, Ogawa H, Domen K. Fatigue, muscle oxygen consumption and blood flow to the skeletal muscle after allogeneic hema-topoietic stem cell transplantation. *Adv Exp Med Biol*. 2018;1072:293-298.
- **Morishita S, Tsubaki A**, Takabayashi T, Fu JB. Relationship between the rating of perceived exertion scale and the load intensity of resistance training. *Strength Cond J*. 2018;40(2):94-109.
- Tanaka T, **Morishita S**, Hashimoto M, Nakamichi T, Uchiyama Y, Hasegawa S, Domen K. Physical function and health-related quality of life in the convalescent phase in surgically treated patients with malignant pleural mesothelioma. *Support Care Cancer*. 2019; doi: 10.1007/s00520-019-04704-5.
- Aoki O, Otani Y, **Morishita S**. Effect of eye-object distance on body sway during galvanic vestibular stimulation. *Brain Sci*. 2018;8(11): 191.
- Wakasugi T, **Morishita S**, Kaida K, Itani Y, Kodama N, Ikegame K, Ogawa H, Domen K. Hemoglobin dynamics in the skeletal muscle of patients with malignant hematopoietic disease. *Adv Exp Med Biol*. 2018;1072:287-291.
- **Ohyanagi H, Tsubaki A, Morishita S, Obata H, Qin W**, Onishi H. Changes in the prefrontal cortex oxygenation levels during cycling in the supine and upright positions. *Adv Exp Med Biol*. 2018;1072:133-137.
- **Tsubaki A, Morishita S**, Tokunaga Y, Sato D, Tamaki H, Yamazaki Y, **Qin W, Onishi H**. Changes in cerebral oxyhaemoglobin levels during and after a single 20-minute bout of moderate-intensity cycling. *Adv Exp Med Biol*. 2018;1072:127-131.
- Fu JB, **Morishita S**, Yadav R. Changing paradigms in the rehabilitation of inpatients with brain tumors. *Curr Phys Med Rehabil Rep*. 2018;6(2):115-120.
- **森下慎一郎**, 藤重夫, **奥田生久恵**, 重富雄太, **椿淳裕**. 造血幹細胞移植患者の活動量と身体機能低下の関連性について. *医療の広場* . 2018;58(7): 18-21.
- **森下慎一郎**, 中村和司, 中山靖唯, 松永佑哉, 永井将貴. 造血幹細胞移植患者の筋力低下パターンと身体活動量の関連性を解明する. *大和証券ヘルス財団研究業績集*. 2019; (42):53-58.

- Yamamoto S, **Hotta K**, Ota E, Matsunaga A, Mori R. Exercise - based cardiac rehabilitation for people with implantable ventricular assist devices. *Cochrane Database of Systematic Reviews*. 2018; 9:CD012222.
- Hirai DM, Colburn TD, Craig JC, **Hotta K**, Kano Y, Musch TI, Poole DC. Skeletal muscle interstitial O<sub>2</sub> pressures: bridging the gap between the capillary and myocyte. *Microcirculation*. 2018; e12497.
- **Hotta K**, Behnke B, Masamoto K, Shimotsu R, Onodera N, Yamaguchi A, Poole D, Kano Y. Microvascular Permeability of Skeletal Muscle After Eccentric Contraction-Induced Muscle Injury: In Vivo Imaging Using Two-Photon Laser Scanning Microscopy. *Journal of Applied Physiology*. 2018; 125 (2): 369-380.
- **Hotta K**, Behnke BJ, Arjmandi BH, Ghosh P, Chen B, Brooks R, Maraj JJ, Elam ML, Maher P, Kurien D, Churchill A, Sepulveda JL, Kabolowsky MB, Christou D, Muller-Delp JM. Daily muscle stretching enhances blood flow, endothelial function, capillarity, vessel density and connectivity in aged skeletal muscle. *The Journal of Physiology*. 2018; 596 (10): 1903-1917.
- **Edama M, Ikezu M, Kaneko F, Kikumoto T, Takabayashi T, Hirabayashi R, Inai T**, Kageyama I. Morphological features of the bifurcated ligament. *Surg Radiol Anat*. 2019; 41(1): 3-7.
- **Edama M**, Kageyama I, **Kikumoto T, Takabayashi T, Ito W, Nakamura E, Hirabayashi R, Inai T, Ikezu M, Kaneko F**, Kumazaki A, Inaba H, Omori G. Morphological characteristics of the lateral talocalcaneal ligament: A large-scale anatomical study. *Surg Radiol Anat*. 2019; 41(1): 25-28.
- **Edama M, Takabayashi T, Inai T, Kikumoto T, Ito W, Nakamura E, Hirabayashi R, Ikezu M, Kaneko F**, Kageyama I. The effect of differences in the number of fiber bundles of the anterior tibial ligament on ankle braking function: A simulation study. *Surg Radiol Anat*. *Surg Radiol Anat*. 2019; 41(1):69-73.
- **Edama M, Okuyama R, Goto S, Sasaki M**. Influence of loading rate and limb position on patellar tendon mechanical properties in vivo. *Clin Biomech (Bristol, Avon)*. 2018; 10(61): 52-57.
- **Edama M, Takabayashi T, Inai T, Kikumoto T, Ito W, Nakamura E, Hirabayashi R, Ikezu M, Kaneko F**, Kageyama I. Differences in the strain applied to Achilles tendon fibers when the subtalar joint is overpronated: A simulation study. *Surgical and Radiologic Anatomy*. *Surg Radiol Anat*. 2019 May; 41(5): 595-599.
- **Edama M, Takabayashi T, Inai T, Kikumoto T, Ito W, Nakamura E, Hirabayashi R, Ikezu M, Kaneko F**, Kageyama I. The relationships between the quadratus

- plantae and the flexor digitorum longus and the flexor hallucis longus. *Surg Radiol Anat.* 2019 Apr 16. doi: 10.1007/s00276-019-02240-9. [Epub ahead of print]
- **Edama M, Takabayashi T, Inai T, Kikumoto T, Ito W, Nakamura E, Hirabayashi R, Ikezu M, Kaneko F,** Kageyama I. Relationships between differences in the number of fiber bundles of the anterior talofibular ligament and differences in the angle of the calcaneofibular ligament and their effects on ankle braking function. *Surg Radiol Anat.* 2019 Apr 16. doi: 10.1007/s00276-019-02239-2. [Epub ahead of print]
  - **Hirabayashi R, Edama M, Kojima S, Ito W, Nakamura E, Kikumoto T, Onishi H.** Spinal Reciprocal Inhibition in the Co-contraction of the Lower Leg Depends on Muscle Activity Ratio. *Experimental Brain Research.* 2019; 237(6): 1469-1478.
  - **Hirabayashi R, Edama M, Kojima S, Nakamura M, Ito W, Nakamura E, Kikumoto T,** Onishi H. Effects of Reciprocal Ia Inhibition on Contraction Intensity of Co-contraction. *Frontiers in Human Neuroscience (JCR).* 2018; 12: 57.
  - **Nakamura M, Hirabayashi R, Ohya S, Aoki T, Suzuki D, Shimamoto M, Kikumoto T, Ito W, Nakamura E,** Takabayashi T, **Edama M.** Effect of Static Stretching with Superficial Cooling on Muscle Stiffness. *Sports Medicine International Open* 2018; 02(05): E142-E147.
  - **江玉睦明, 高林知也.** 外側距踵靭帯の形態学的特徴. *日本足の外科学会誌.* 2018. 39 (1) : 23-25.
  - 梨本智史, 渡辺聡, 角張勲, 渡邊博史, 杉戸裕一, 飯田晋, **江玉睦明,** 佐藤 卓. 鼠径部痛と対側の腰椎分離症を併発した一症例. *理学療法ジャーナル.* 2018. 53(3) : 311-316.
  - 下島蒼一郎, 坂本義峰, **平林 怜,** 青木啓成. 動作時の骨盤アライメント補正により疼痛が軽減したシンスプリントの一症例. *長野県理学療法学会誌.* 2018 ; 46(2) : 49-52. (原著論文)
  - Cheng CC\*, Tsutsui K\*, **Taguchi T\*** (\*co-first author), Sanzen N, Nakagawa A, Kakiguchi K, Yonemura S, Tanegashima C, Keeley SD, Kiyonari H, Furuta Y, Tomono Y, Watt FM, Fujiwara H. Hair follicle epidermal stem cells define a niche for tactile sensation. *Elife* 7: e38883, 2018.
  - Sasaguri T, **Taguchi T,** Murata Y, Kobayashi K, Iizasa S, Iizasa E, Tsuda M, Hirakawa N, Hara H, Yoshida H, Yasaka T. Interleukin-27 controls basal pain threshold in physiological and pathological conditions. *Scientific Reports* 8: 11022, 2018.
  - Takamoto K, Saitoh T, **Taguchi T,** Nishimaru H, Urakawa S, Sakai S, Ono T, Nishijo H. Lip closure training improves eating behaviors and prefrontal cortical hemodynamic

- activity and decreases daytime sleep in elderly persons. *Journal of Bodywork & Movement Therapies* 22(3): 810-816, 2018.
- Mori T, Agata N, Itoh Y, Miyazu-Inoue M, Sokabe M, **Taguchi T\***, Kawakami K\*. Post-injury stretch promotes recovery in a rat model of muscle damage induced by lengthening contractions. *Journal of Physiological Sciences* 68(4): 483-492, 2018.
  - Honda Y, Sakamoto J, **Hamaue Y**, Kondo Y, Sasabe R, Goto K, Fukusima T, Oga S, Sasaki R, Tanaka N, Nakano J, Okita M. Effects of physical-agent pain relief modalities for fibromyalgia patients:A systematic review and meta-analysis of randomized controlled trials. *Pain Res Manag* 2018: 2930632, 2018.
  - **Takabayashi T, Edama M, Inai T, Kubo M**. Gender differences in coordination variability between shank and rearfoot during running. *Human Movement Science*. 2019; 66: 91-97.
  - **Takabayashi T, Edama M, Inai T, Kubo M**. Sex-related differences in coordination and variability among foot joints during running. *Journal of Foot and Ankle Research*. 2018; 11(53).1-8.
  - 高林知也, 江玉睦明, 中村絵美, 柳宗, 稲井卓真, 大森豪, 久保雅義. 日本人大学生における女性の足部アーチモビリティの基準値. *J Sports Injury*. 2018; 23: 8-9.
  - 高林知也. 運動科学の概念に基づく筋機能に着目した走行動作の捉え方. *理学療法*. 2018; 35(10): 908-914.
  - **Inai T, Takabayashi T, Edama M, Kubo M**. Effect of contralateral cane use on hip moment impulse in the frontal plane during the stance phase. *Gait & Posture*. 2019; 70: 311-316.
  - **Inai T, Takabayashi T, Edama M, Kubo M**. Relationship between movement time and hip moment impulse in the sagittal plane during sit-to-stand movement: A combined experimental and computer simulation study. *BioMedical Engineering Online*. 2018; 17(48).1-13.
  - **Inai T, Takabayashi T, Edama M, Kubo M**. Effect of hip joint angle at seat-off on hip joint contact force during sit-to-stand movement: A computer simulation study. *BioMedical Engineering Online*. 2018; 17(1). 1-14.
  - 市川崇, 亀尾徹, 久保雅義. 膝痛に対する機能障害に基づく分類システムによる運動器理学療法に関する文献的考察. *理学療法学*. 2018; 5: 318-324
  - Okamura T, Hayashi A, Matsuo S, Shinoda K, **Konishi I**, Makio H, Tsuji M. Prevention of falls in the elderly dementia trial: a quasi-experimental study. *Journal of Human Ergology*. 2018; 47(1): 37-41.
  - **Konishi I**, Cunanan CC. Use of the International Classification of Functioning, Disability, and Health core set for stroke in evaluating a community-based

rehabilitation program among rural Filipino persons with disabilities. The College of Allied Medical Professions Journal (a research publication of Angeles University Foundation, Philippines), 2018; 5: 83-87.

- Takahashi A, Kitamura K, Watanabe Y, **Kobayashi R**, Saito T, Takachi R, Kabasawa K, Oshiki R, Tsugane S, Iki M, Sasaki A, Yamazaki O, Nakamura K. Epidemiologic profiles of chronic low back and knee pain in middle-aged and elderly Japanese from the Murakami Cohort. J Pain Res. 2018 Dec 12 ; 11 : 3161-3169.
- Nakamura K, Takachi R, Kitamura K, Saito T, **Kobayashi R**, Oshiki R, Watanabe Y, Kabasawa K, Takahashi A, Tsugane S, Iki M, Sasaki A, Yamazaki O. The Murakami Cohort Study of vitamin D for the prevention of musculoskeletal and other age-related diseases: a study protocol. Environ Health Prev Med. 2018;23(1):28.
- **神田賢, 北村拓也, 多田葉月, 金子巧, 井出愛実, 郷津良太, 古西勇, 佐藤成登志**. 青年期女性における頸胸椎アライメントと頸部屈筋群持久力との関連性. 理学療法新潟. 2018 ; 21 : 19-24.
- **神田賢, 北村拓也, 多田葉月, 金子巧, 井出愛実, 郷津良太, 古西勇, 渡辺慶, 佐藤成登志**. 青年期女性の慢性肩こり有訴に影響をおよぼす因子：頸胸椎アライメント, 頸部屈筋群持久力, 頸部 ADL 機能に着目して. 日本運動器疼痛学会誌 10(1): 64-74, 2018.
- **佐藤成登志, 神田賢, 北村拓也, 渡辺慶, 山本智章**. 高齢者脊柱変形に対する運動療法. ペインクリニック. 2019 ; 40(2) : 194-202.
- **井出愛実, 神田賢, 北村拓也, 古西勇, 高野義隆, 立石学, 佐藤成登志**. 若年女性における腹横筋収縮が骨盤底筋と腹横筋におよぼす影響－超音波画像診断装置を用いた検討－. 理学療法新潟. 2019 ; 22 : 3-8.
- **脇野俊貴, 小林量作**. カーフレイズにおける上肢支持量, 足関節角度が下腿三頭筋活動量に与える影響, 総合リハ, 2019 ; 47(2) : 155-160.
- **Masaki M**, Ikezoe T, Kamiya M, Araki K, Isono R, Kato T, Kusano K, Tanaka M, Sato S, Hirono T, Kita K, Tsuboyama T, Ichihashi N. Association of activities of daily living with the load during step ascent motion in nursing home-residing elderly individuals. Am J Phys Med Rehabil. 2018; 97: 715-720.
- **Masaki M**, Tateuchi H, Koyama Y, Sakuma K, Otsuka N, Ichihashi N. Back muscle activity and sagittal spinal alignment during quadruped upper and lower extremity lift in young men with low back pain history. Gait Posture. 2018; 66: 221-227.
- **Masaki M**, Ikezoe T, Yanase K, Ji X, Umehara J, Aoyama J, Minami S, Fukumoto Y, Watanabe Y, Kimura M, Ichihashi N. Association of pain history and current pain with sagittal spinal alignment and muscle stiffness and muscle mass of the back muscles in middle-aged and elderly women. Clin Spine Surg. 2019 (in press).

- **Masaki M**, Ji X, Yamauchi T, Tateuchi H, Ichihashi N. Effects of the trunk position on muscle stiffness that reflects elongation of the lumbar erector spinae and multifidus muscles: an ultrasonic shear wave elastography study. *Eur J Appl Physiol* 2019; 119: 1085-1091.
- Tabara Y, **Masaki M**, Ikezoe T, Setoh K, Kato T, Kawaguchi T, Kosugi S, Nakayama T, Ichihashi N, Tsuboyama T, Matsuda F; Nagahama Study Group. Small degree of lumbar lordosis as an overlooked determinant for orthostatic increases in blood pressure in the elderly: The nagahama study. *Am J Hypertens* 2019; 32: 61-69
- **Nakamura M, Sato S, Kiyono R, Takahashi N, Yoshida T**. Effect of rest duration between static stretching on passive stiffness of medial gastrocnemius muscle in vivo. *J Sport Rehabil*. (in press)
- **Nakamura M**, Ikezoe T, Nishishita S, Tanaka H, Umehara J, Ichihashi N. Static stretching duration needed to decrease passive stiffness of hamstrings muscle tendon unit. *J Phys Fitness Sports Med*. (in press)
- Nakao S, Ikezoe T, **Nakamura M**, Umegaki H, Fujita K, Umehara J, Kobayashi T, Ibuki S, Ichihashi N. Chronic effects of a static stretching program on hamstring strength. *J Strength Cond Res*. (in press)
- Saeki J, Ikezoe T, Yoshimi S, **Nakamura M**, Ichihashi N. Menstrual cycle variation and gender difference in muscle stiffness of triceps surae. *Clin Biomech. (JCR)*. 2019; 61:222-226.
- Tanaka H, Ikezoe T, Tateuchi H, **Nakamura M**, Umehara J, Fujita K, Araki K, Yanase K, Ichihashi N. The effects of low-load hip abductor isometric training at shortened muscle length: randomized controlled trial. *J Phys Fitness Sports Med*. 2019; 8(2): 107-111.
- Nunes JP, **Nakamura M**, Schoenfeld BJ, Cyrino ES. The data does not seem to support the effect of stretch training on increasing muscle thickness. *Scand J Med Sci Sports*. 2018; 28(12):2767-2768.
- **Nakamura M, Hirabayashi R, Ohya S, Aoki T, Suzuki D, Shimamoto M, Kikumoto T, Ito W, Nakamura E, Takabayashi T, Edama M**. Effect of static stretching with superficial cooling on muscle stiffness. *Sports Med Int Open*. 2018; 25: 2(5): E142-E147.
- Nishishita S, Hasegawa S, **Nakamura M**, Umegaki H, Kobayashi T, Ichihashi N. Effective stretching position for the supraspinatus muscle evaluated by shear wave elastography in vivo. *J Shoulder Elbow Surg. (JCR)*. 2018; 27(12):2242-2248.

- Takeuchi K, Takemura M, **Nakamura M**, Tsukuda F, Miyakawa S. Effects of Active and Passive Warm-ups on Range of Motion, Strength, and Muscle Passive Properties in Ankle Plantarflexor Muscles. J Strength Cond Res. (in press)
- **中村雅俊**, 楊玲, 清野涼介, 佐藤成, 高橋信重, 吉田委市, 森下勝行. 超音波照射が僧帽筋上部線維弾性率に及ぼす影響—せん断波エラストグラフィ機能を用いた検討—. 物理療法科学. (印刷中).
- **鈴木大地**, **中村雅俊**, **大箭周平**, **青木孝史**, **江玉睦明**. 遅発性筋痛を生じた筋に対するストレッチング介入の効果—スタティックストレッチングとホールドリラクソストレッチングの比較—. 体力科学.
- **中村雅俊**, 藤堂萌, 海老根直之, 福岡義之, 高倉久志, 北條達也. 足浴がエネルギー代謝に及ぼす影響の検討. 日本温泉気候物理医学会雑誌 2018 年 81 巻 2 号 p. 70-75.
- 

#### 2019 年度研究業績

- **Hagihara Y, Ohtani T**, Hatano Y, Yoneda M, Suzuki T, **Saeki F, Sawada J, Koibuchi R, Nara T**. Heian-period human skeletal remains from the Shomyoji shell midden in Yokohama City, Kanagawa Prefecture. Anthropological Science. 2019; 127 (3): 149 - 158.
- **Saso A**, Kondo O. Periodontal disease in the Neolithic Jomon: inter-site comparisons of inland and coastal areas in central Honshu, Japan. Anthropological Science. 2019; 127: 13-25.
- Sawafuji R, **Saso A**, Suda W, Hattori M, Ueda S. Ancient DNA analysis of food remains in human dental calculus from the Edo period, Japan. PLOS ONE. 2020
- **Tamakoshi K, Kondo H, Akatsuka N Meguro K, Takahashi Y**: A comparison of motor functional recovery and brain damage between striatal lesions induced by ischemia and hemorrhage in rats. Journal of Stroke and Cerebrovascular Diseases 2020; 5(29)
- **Onishi H**. Effects of passive movement and mechanical tactile stimulation on corticospinal excitability. Niigata Journal of Health and Welfare. 2019; 19(2): 83-100.
- Sato D, Yamashiro K, Yamazaki Y, Ikarashi K, **Onishi H**, Baba Y, Maruyama A. Priming effects of water immersion on paired associative stimulation-induced neural plasticity in the primary motor cortex. International Journal of Environmental Research and Public Health. 2020; 17(1): 215.
- **Otsuru N, Kamijo K, Otsuki T, Kojima S, Miyaguchi S, Saito K, Inukai Y, Onishi H**. 10 Hz transcranial alternating current stimulation over posterior parietal cortex facilitates tactile temporal order judgment. Behavioural Brain Research. 2019; 368.



- **Otsuru N, Miyaguchi S, Kojima S, Yamashiro K, Sato D, Yokota H, Saito K, Inukai Y, Onishi H.** Timing of modulation of corticospinal excitability by heartbeat differs with interoceptive accuracy. *Neuroscience*. 2020; 433:156-162.
- **Yokota H, Otsuru N, Kikuchi R, Suzuki R, Kojima S, Saito K, Miyaguchi S, Inukai Y, Onishi H.** Establishment of optimal two-point discrimination test method and consideration of reproducibility. *Neuroscience Letters*. 2020; 714(1).
- **Saito K, Otsuru N, Inukai Y, Miyaguchi S, Yokota H, Kojima S, Sasaki R, Onishi H.** Comparison of transcranial electrical stimulation regimens for effects on inhibitory circuit activity in primary somatosensory cortex and tactile spatial discrimination performance. *Behavioural Brain Research*. 2019; 375: 112168.
- **Miyaguchi S, Otsuru N, Kojima S, Yokota H, Saito K, Inukai Y, Onishi H.** The effect of gamma tACS over the M1 region and cerebellar hemisphere does not depend on current intensity. *Journal of Clinical Neuroscience*. 2019; 65: 54-58.
- **Miyaguchi S, Yamaguchi M, Kojima S, Yokota H, Saito K, Inukai Y, Otsuru N, Onishi H.** Time course of bilateral corticospinal tract excitability in the motor-learning process. *Neuroscience letters*. 2019; 711.
- **Nagasaka K, Takashima I, Matsuda K, Higo N.** Brain activity changes in a monkey model of central post-stroke pain. *Experimental Neurology*. 2020; 323: 113096.
- **Kojima S, Miyaguchi S, Sasaki R, Tsuiki S, Saito K, Inukai Y, Otsuru N, Onishi H.** The effects of mechanical tactile stimulation on corticospinal excitability and motor function depend on pin protrusion patterns. *Scientific reports*. 2019; 9(1): 16677.
- Yamazaki Y, Yamashiro K, **Onishi H, Otsuru N, Kojima S, Saito K, Sato D.** The modulation of inhibitory function in the primary somatosensory cortex and temporal discrimination threshold induced by acute aerobic exercise. *Behavioral Brain Research*. 2019; 377: 112253.
- Yamazaki Y, Sato D, Yamashiro K, Nakano S, **Onishi H, Maruyama A.** Acute low-intensity aerobic exercise modulates intracortical inhibitory and excitatory circuits in an exercised and a non-exercised muscle in the primary motor cortex. *Frontiers in Physiology*. 2019; 10:1361.
- **Mahn VP, Saito K, Miyaguchi S, Tsuiki S, Onishi H.** Effects of long-duration paired pulse electrical stimulation on excitability of corticospinal tract in healthy subjects. *Niigata Journal of Health and Welfare*. 2019; 19(2): 109-121.
- **Mahn VP, Miyaguchi S, Saito K, Tsuiki S, Yokota H, Kojima S, Inukai Y, Otsuru N, Onishi H.** Effects of lcontinuous and intermittent voluntary movement tasks on the excitability of the corticospinal pathway. *Niigata Journal of Health and Welfare*. 2019; 19(2): 135-143.

- **Watanabe H, Kojima S, Otsuru N, Onishi H.** The repetitive mechanical tactile stimulus intervention effects depend on input methods. *Frontiers in Neuroscience*. 2020; 14:393.
- Tamaki H, Yotani K, Ogita F, **Hayao K**, Kirimto H, **Onishi H**, Kasuga N, Yamamoto N. Low-Frequency Electrical Stimulation of Denervated Skeletal Muscle Retards Muscle and Trabecular Bone Loss in Aged Rats. *Int J Med Sci*. 2019; 2(16): 822-830.
- **Abe T, Miyaguchi S, Otsuru N, Onishi H.** The effect of transcranial random noise stimulation on corticospinal excitability and motor performance. *Neurosci Lett*. 2019; 13(705): 138-142.
- **Tsubaki A, Morishita S, Hotta K, Tokunaga Y, Qin W, Kojima S,** Onishi H. Changes in the laterality of oxygenation in the prefrontal cortex and premotor area during a 20-min moderate-intensity cycling exercise. *Advances in Experimental Medicine and Biology (JCR)*. (in press)
- **Kojima S, Morishita S, Hotta K, Qin W,** Kato T, Oyama K, **Tsubaki A.** Relationship Between Decrease of Oxygenation During Incremental Exercise, Partial Pressure End-Tidal Carbon Dioxide: Near-Infrared Spectroscopy Vector Analysis. *Advances in Experimental Medicine and Biology (JCR)*. (in press)
- **Kojima S, Abe T, Morishita S, Inagaki Y, Hotta K, Qin W, Tsubaki A.** Acute moderate-intensity exercise improves 24-h sleep deprivation-induced cognitive decline and cerebral oxygenation: A near-infrared spectroscopy study. *Respiratory Physiology & Neurobiology (JCR)*. 2020; 274: 103354
- **Qin W, Kojima S, Morishita S, Hotta K,** Oyama K, **Tsubaki A.** Effects of 20-Minute Intensive Exercise on Subjects with Different Working Memory Bases. *Advances in Experimental Medicine and Biology (JCR)*. (in press)
- **Sato D, Morishita S, Hotta K, Ito Y, Shirayama A, Kojima S, Qin W, Tsubaki A.** Supine cycling exercise enhances cerebral oxygenation of motor-related areas in healthy male volunteers. *Advances in Experimental Medicine and Biology (JCR)*. (in press)
- **Hashimoto K, Hotta K, Morishita S, Kanai R, Takahashi H, Tsubaki A.** Cerebral oxygenation dynamics during incremental exercise: Comparison of arm cranking and leg cycling. *Advances in Experimental Medicine and Biology (JCR)*. (in press)
- **Morishita S,** Nakano J, Fu JB, Tsuji T. Physical exercise is safe and feasible in thrombocytopenic patients with hematologic malignancies: a narrative review. *Hematology*. 2020 Dec;25(1):95-100. doi: 10.1080/16078454.2020.1730556.
- **Kojima S, Morishita S, Qin W, Tsubaki A.** Cerebral Oxygenation Dynamics of the Prefrontal Cortex and Motor-Related Area During Cardiopulmonary Exercise Test: A

- Near-Infrared Spectroscopy Study. *Adv Exp Med Biol.* 2020;1232:231-237. doi: 10.1007/978-3-030-34461-0\_29.
- **Morishita S**, Wakasugi T, Kaida K, Itani Y, Ikegame K, Ogawa H, Fujimori Y, Domen K. Relationship Between Exercise Capacity and Muscle O<sub>2</sub>Hb Saturation in Patients Before Hematopoietic Stem-Cell Transplantation. *Adv Exp Med Biol.* 2020;1232:215-221. doi: 10.1007/978-3-030-34461-0\_27.
  - **Ichinose Y, Morishita S, Suzuki R, Endo G, Tsubaki A.** Comparison of the Effects of Continuous and Intermittent Exercise on Cerebral Oxygenation and Cognitive Function. *Adv Exp Med Biol.* 2020;1232:209-214. doi: 10.1007/978-3-030-34461-0\_26.
  - Wakasugi T, **Morishita S**, Kaida K, Itani Y, Ikegame K, Kodama N, Ogawa H, Fujimori Y, Domen K. Relationship Between Muscle Oxygen Saturation and Exercise Load in Patients with Malignant Hematopoietic Disease. *Adv Exp Med Biol.* 2020;1232:201-207. doi: 10.1007/978-3-030-34461-0\_25.
  - Mitobe Y, **Morishita S**, Ohashi K, Sakai S, Uchiyama M, Abeywickrama H, Yamada E, Kikuchi Y, Nitta M, Honda T, Endoh H, Kimura S, Sakano S, Koyama Y. Skeletal Muscle Index at Intensive Care Unit Admission Is a Predictor of Intensive Care Unit-Acquired Weakness in Patients With Sepsis. *J Clin Med Res.* 2019 Dec;11(12):834-841. doi: 10.14740/jocmr4027. Epub 2019 Nov 24.
  - **Morishita S, Hirabayashi R, Tsubaki A**, Aoki O, Fu JB, **Onishi H**, Tsuji T. Assessment of the Mini-Balance Evaluation Systems Test, Timed Up and Go test, and body sway test between cancer survivors and healthy participants. *Clin Biomech(Bristol, Avon).* 2019 Oct;69:28-33. doi: 10.1016/j.clinbiomech.2019.07.002. Epub 2019 Jul 2.
  - Fu JB, Molinares DM, **Morishita S**, Silver JK, Dibaj SS, Guo Y, Bruera E. Retrospective Analysis of Acute Rehabilitation Outcomes of Cancer Inpatients with Leptomeningeal Disease. *PM R.* 2020 Mar;12(3):263-270. doi: 10.1002/pmrj.12207. Epub 2019 Sep 12.
  - **Morishita S, Tsubaki A, Hotta K**, Fu JB, Fuji S. The benefit of exercise in patients who undergo allogeneic hematopoietic stem cell transplantation. *J Int Soc Phys Rehabil Med.* 2019 Jan-Mar;2(1):54-61. doi: 10.4103/jisprm.jisprm\_2\_19. Epub 2019 May 22.
  - Yamauchi S, **Morishita S**, Uchiyama Y, Kodama N, Domen K. An investigation into the factors related to independent walking in elderly inpatients with collagen diseases. *J Int Soc Phys Rehabil Med.* 2019;2:30-4. doi:10.4103/jisprm.jisprm\_3\_19.

- **Hotta K**, Batchelor WB, Graven J, Dahya V, Noel TE, Ghai A, Katopodis JN, Dixon WC, Andrews R, Pragle A, Chheda J, Liberatore L, Behnke BJ, Muller-Delp J. Daily Passive Muscle Stretching Improves Flow-Mediated Dilation of Popliteal Artery and 6-minute Walk Test in Elderly Patients with Stable Symptomatic Peripheral Artery Disease. *Cardiovasc Revasc Med*. 2019; 20(8): 642-648.
- 梨本智史, 坂内将貴, 井上雅之, 杉戸 裕一, 與口貴子, 阿部健介, 飯田晋, 富井亜佐子, 眞田明子, 岡田慎輔, 杉浦広隆, 樋口浩太郎, **森下慎一郎**, **椿 淳裕**. 外来介入開始時の身体活動量に影響を与える因子の検討-季節を加味した検討-. 心臓リハビリテーション (協力学術研究団体) (印刷中)
- 大嶋春乃, 長濱秀明, 小林千穂, **椿 淳裕**, 小川智. 動作時の呼吸困難感が強い慢性閉塞性肺疾患患者への呼吸リハビリテーション介入. *日本呼吸ケア・リハビリテーション学会誌 (協力学術研究団体)*. 2019; 28 (2) : 254-258
- **森下慎一郎**, 伊藤 歩, 奥田 生久恵, 重富 雄太, **椿 淳裕**. 造血幹細胞移植患者の移植前後における筋肉量や栄養状態と身体活動量の変化について. *医療の広場*. 2019;59(6): 9-23
- **Edama M, Takeishi M, Kurata S, Kikumoto T, Takabayashi T, Hirabayashi R, Inai T, Ikezu M, Kaneko F**, Kageyama I. Morphological features of the inferior fascicle of the anterior inferior tibiofibular ligament. *Scientific Reports* volume 9, Article number: 10472. 2019.
- **Edama M, Takabayashi T, Inai T, Hirabayashi R, Ikezu M, Kaneko F, Kanta M**, Kageyama I. Morphological features of the posterior intermalleolar ligament. *Surg Radiol Anat*. Jul 23. Dec;41(12):1441-1443.2019.
- **Edama M, Takabayashi T, Inai T, Hirabayashi R, Ikezu M, Kaneko F, Kanta M**, Kageyama I. Morphological features of the cervical ligament. *Surgical and Radiologic Anatomy*, 42(2), 215-218.2020.
- **Edama M, Takabayashi T, Inai T, Hirabayashi R, Ikezu M, Kaneko F, Kanta M**, Kageyama I. Morphological features of the deep component of the posterior inferior tibiofibular ligament. *Surgical and Radiologic Anatomy*. [in press]
- **Hirabayashi R, Edama M, Kojima S, Miyaguchi S, Onishi H**. Effects of repetitive passive movement on ankle joint on spinal reciprocal inhibition. *Experimental Brain Research* [in press]
- **Nakamura E, Edama M, Kikumoto T, Ito W, Hirabayashi R, Yamamoto N, Kubo M** Characteristics of physical functions in junior high school baseball players with different site of throwing-related arm pain. *J Phys Fitness Sports Med*, 8 (4): 159-164, 2019.

- **Shimizu S, Edama M, Ikezu M, Kanta M, Kaneko F**, Kageyama I. Morphological features of the posterior oblique ligament of the ulnar collateral ligament of the elbow joint. *Surgical and Radiologic Anatomy*. Mar;42(3):243-248.2020.
- **Kikumoto T, Akatsuka K, Nakamura E, Ito W, Hirabayashi R, Edama M**. Quantitative evaluation method for clarifying ankle plantar flexion angles using anterior drawer and inversion stress tests: a cross-sectional study. *J Foot Ankle Res*. 3;12:27. 2019.
- Takahashi S., Nagano Y., **Ito W.**, Kido Y., Okuwaki T. A retrospective study of mechanisms of anterior cruciate ligament injuries in high school basketball, handball, judo, soccer, and volleyball. *Medicine (Baltimore)*. 2019;98(26):e16030.
- **伊藤渉, 江玉睦明, 菊元孝則, 中村絵美, 平林怜, 金子史弥, 大森豪**. 大学生女性サッカー選手における ACL 再建術後の drop vertical jump の 膝外反変位量についての検討 — 対側再損傷例との比較 — (*J. sports Injury*) Vol. 24 : 7–9. 2019.
- 竹田典広, **伊藤渉**, 三富咲恵, 菊地冴子, 金子未来, **江玉睦明**, 山本智章, 谷藤理, 望月友晴, 大森豪. スポーツ選手における ACL 再建術後の ACL-RSI と膝関節機能との関連. *J. sports Injury* Vol. 24 : 13–15. 2019.
- 梨本智史, 渡辺聡, 角張勲, 渡邊博史, 杉戸祐一, 飯田晋, **江玉睦明**, 佐藤卓. 鼠径部痛と対側の腰椎分離症を併発した一症例. *理学療法ジャーナル* 53 (3) : 311-31. 2019.
- 高林知也, **江玉睦明**, **中村絵美**, 稲井卓真, 大森豪, 久保雅義. 日本人大学生における女性の足部アーチモビリティの基準値. *J. sports Injury* Vol. 23 : 8–9 2018.
- Wakatsuki K, Takeda-Uchimura Y, Matsubara T, Nasu T, Mizumura K, **Taguchi T**. Peripheral nociceptive mechanisms in an experimental rat model of fibromyalgia induced by repeated cold stress. *Neuroscience Research*, in press.
- Tsuboshima K, Urakawa S, Takamoto K, **Taguchi T**, Matsuda T, Sakai S, Mizumura K, Ono T, Nishijo H. Distinct effects of thermal treatments after lengthening contraction on mechanical hyperalgesia and exercise-induced physiological changes in the rat muscle. *Journal of Applied Physiology*, 128: 296-306, 2020.
- Shimodaira T, Mikoshiha S, **Taguchi T**. Nonsteroidal anti-inflammatory drugs and acetaminophen ameliorate muscular mechanical hyperalgesia developed after lengthening contractions via cyclooxygenase-2 independent mechanisms in rats. *PLoS One*, 14(11): e0224809, 2019.
- Matsubara T, Hayashi K, Wakatsuki K, Abe M, Ozaki N, Yamanaka A, Mizumura K, **Taguchi T**. Thin-fiber receptors expressing acid-sensing ion channel 3 contribute to muscular mechanical hypersensitivity after exercise. *European Journal of Pain*, 23(10): 1801-1813, 2019.

- Suarez, Sibayan, Regino, **Kubo** et. al, Association between lower extremity movement compensations in the presence of PFPS among female collegiate football athletes: a cross sectional study. *PJAHS*. 2020; 3(1): 26-35
- Agaro, Suarez, Sosa, **Kubo**, et.al. Comparison of Core Stability and Hip Muscular Strength in Selected Collegiate Football Players with and without Patellofemoral Pain Syndrome. *PJAHS*. 2020; 3(2):18-25
- **Takabayashi T, Edama M, Inai T, Kubo M**. A mathematical modelling study investigating the influence of knee joint flexion angle and extension moment on patellofemoral joint reaction force and stress. *Knee*. 2019; 26(66):1323-1329.
- **Inai T, Takabayashi T, Edama M, Kubo M**. Decrease in walking speed increases hip moment impulse in the frontal plane during the stance phase. *PeerJ*. 2019; 19(7).
- **吉田 卓磨, 高林 知也, 徳永 由太, Nguyen Khoa, 久保 雅義**. 膝関節角度と膝関節伸展筋力の変化による膝蓋骨後方傾斜への影響—エコーを用いた検証—. *理学療法学*. 2019; 46 (5) . 334-342.
- **吉田卓真, 高林知也, 徳永由太, 神田賢, 久保雅義**. 肩関節疾患患者の肩峰骨頭距離と肩関節屈曲可動域の関係. *理学療法新瀉*, 2019; 22, 9–12.
- Shimoura K, Nakayama Y, Tashiro Y, Hotta T, **Suzuki Y**, Tasaka S, Matsushita T, Matsubara K, Kawagoe M, Sonoda T, Yokota Y, Aoyama T. Association Between the Functional Movement Screen Scores and Injuries in Male College Basketball Players. *J Sport Rehabil*. 2019 May 16;1-19.
- Yokota J, Fukutani N, Nin N, Yamanaka H, Yasuda M, Tashiro Y, Matsushita T, **Suzuki Y**, Yokota I, Teramukai , Aoyama T. Association of Low Back Pain With Presenteeism in Hospital Nursing Staff. *J Occup Health*. 2019 May;61(3):219-226.
- Iijima H, **Suzuki Y**, Aoyama T, Takahashi M. Relationship Between Varus Thrust During Gait and Low Back Pain in People With Knee Osteoarthritis. *Arthritis Care Res (Hoboken)*. 2019 Jun 29.
- **Suzuki Y**, Iijima H, Shimoura K, Tsuboyama T, Aoyama T. Patients With Early-Stage Knee Osteoarthritis and Knee Pain Have Decreased Hip Abductor Muscle Strength While Descending Stairs. *Clin Rheumatol*. 2019 Aug;38(8):2249-2254.
- Masataka Tatsumi, Egidio Michael Mkoba, **Yusuke Suzuki**, Yuu Kajiwarra, Hala Zeidan, Keiko Harada, Tsubasa Bitoh, Yuichi Nishida, Kengo Nakai, Kanako Shimoura, Tomoki Aoyama. Risk Factors of Low Back Pain and the Relationship With Sagittal Vertebral Alignment in Tanzania. *BMC Musculoskelet Disord*. 2019 Dec 4;20(1):584.
- **Yusuke Suzuki**, Hiroataka Iijima, Tomoki Aoyama. Pain Catastrophizing Affects Stair Climbing Ability in Individuals With Knee Osteoarthritis. *Clin Rheumatol*. (in press)

- Hala Zeidan, Eguchi Ryo, **Yusuke Suzuki**, Hirotaka Iijima, Yuu Kajiwara, Keiko Harada, Kengo Nakai, Kanako Shimoura, Koji Fujimoto, Masaki Takahashi, Tomoki Aoyama. Detailed Analysis of the Transverse Arch of Hallux Valgus Feet With and Without Pain Using Weightbearing Ultrasound Imaging and Precise Force Sensors. PLoS One. 2020 Jan 9;15(1)
- Hirotaka Iijima, Mami Inoue, **Yusuke Suzuki**, Kanako Shimoura, Tomoki Aoyama, Katsuyuki Madoba, Masaki Takahashi. Contralateral Limb Effect on Gait Asymmetry and Ipsilateral Pain in a Patient With Knee Osteoarthritis: A Proof-of-Concept Case Report. JBJS Case Connect. Jan-Mar 2020;10(1)
- Hirotaka Iijima, Ayanori Yorozu, **Yusuke Suzuki**, Ryo Eguchi, Tomoki Aoyama, Masaki Takahashi. Hip Abductor Muscle Weakness and Slowed Turning Motion in People With Knee Osteoarthritis. J Biomech. 2020 Mar 5;101:109652.
- Tsubasa Bito, **Yusuke Suzuki**, Yuu Kajiwara, Hala Zeidan, Keiko Harada, Kanako Shimoura, Masataka Tatsumi, Kengo Nakai, Yuichi Nishida, Soyoka Yoshimi, Rika Kawabe, Junpei Yokota, Chiaki Yamashiro, Tadao Tsuboyama, Tomoki Aoyama. Effects of Deep Thermotherapy on Chest Wall Mobility of Healthy Elderly Women. Electromagn Biol Med. (in press)
- Takuya Kitamura, **Masaru Kanda, Naritoshi Sato**, Kei Watanabe, **Hideaki Onishi**. The differences between hemiplegic patients and healthy subjects in trunk muscles. Niigata Journal of Health and Welfare, 2019 ; 19 : 37-44
- Takuya Kitamura, **Masaru Kanda, Naritoshi Sato**, Kei Watanabe, **Hideaki Onishi**. Factors related to quality of life of patients with adult spinal deformity and chronic low back pain. Niigata Journal of Health and Welfare, 2019 ; 19 : 155-162
- 清野涼介, 佐藤成, 高橋信重, 吉田委市, 中村雅俊. 脊髓興奮性の変化が筋硬度に及ぼす影響－骨格筋電気刺激を用いた検討－. 新潟医療福祉学会誌. 2019; 19(3): 100-106.
- **Nakamura M, Sato S, Hiraizumi K, Kiyono, Fukaya T**, Nishishiata S. Effects of static stretching programs performed at different volume-equated weekly frequencies on passive properties of muscle-tendon unit. J Biomech. 2020;103:109670.
- **Sato S, Kiyono R, Takahashi N, Yoshida T, Takeuchi K, Nakamura M**. The acute and prolonged effects of 20-s static stretching on muscle strength and shear elastic modulus PLoS One. 2020. 6;15(2):e0228583
- **Nakamura M, Yoshida T, Kiyono R, Sato S, Takahashi N**. The effect of low-intensity resistance training after heat stress on muscle size and strength of triceps brachii: a randomized controlled trial. BMC Musculoskelet Disord. 2019 12;20(1):603.

- Nunes JP, Schoenfeld BJ, **Nakamura M**, Ribeiro AS, Cunha PM, Cyrino ES. Does stretch training induce muscle hypertrophy in humans? A review of the literature. Clin Physiol Funct Imaging. 2020; 16;103:109670.
- 武内孝祐, **中村雅俊**. 整形外科勤務の理学療法士による静的ストレッチ実施状況調査. 運動器リハビリテーション(協力学術団体). 印刷中
- Nakao S, Ikezoe T, **Nakamura M**, Saeki J, Kato T, Umehara J, Ichihashi N. Effects of ankle position during static stretching for the hamstrings on the decrease in passive stiffness. J Biomech.2019, 11; 96: 109358
- 八幡薫, 佐藤 成, 清野涼介, 稲葉和貴, 須藤重樹, 平泉翔, **中村雅俊**. ストレッチングが遅発性筋痛に及ぼす影響の検討—Hold relax stretching と modified PNF stretching の比較—体力科学. 体力科学. 2020 年 69 巻 1 号 p.157-164
- **Nakamura M, Ohya S, Aoki T, Suzuki D, Hirabayashi R, Kikumoto T, Nakamura E, Ito W, Takabayashi T, Edama M**. Differences in muscle attachment proportion within the most common location of Medial Tibial Stress Syndrome in vivo. Orthop Traumatol Surg Res. 2019; 105(7):1419-1422
- **Nakamura M, Sutoh S, Kiyono R, Sato S, Yahata K, Hiraizumi K**, Morishita S. Efficacies of ultrasound and a handheld dynamometer to predict one-repetition maximum. J Phys Ther Sci. 2019. 31(10): 790-794
- Hirono T, Ikezoe T, **Nakamura M**, Tanaka H, Umehara J, Ichihashi N. Acute effects of low-loaded resistance exercise with different rest periods on muscle swelling in healthy young men. J Phys Fitness Sports Med (JCR). 2019, 8(4): 165-171
- Takeuchi K, **Nakamura M**, Kakahana H, Tsukuda F. A survey of static and dynamic stretching protocol. Int J Sport Health Sci. 2019. 17: 72-79