解 剖 学 第 二 講 座

〇主な研究内容

１　再生医学と変性疾患の解明のための骨髄幹細胞研究
２　骨髄間葉系幹細胞を用いた糖尿病合併症に対する治療法の研究
３　間葉系幹細胞を用いた炎症性腸疾患に対する治療法の研究
４　骨髄間葉系幹細胞移植のための細胞の賦活化による安全性と治療効果機能改善方法とその治療効果の研究
５　骨髄間葉系幹細胞を用いたアルツハイマー病による学習記憶障害に対する治療法の研究
６　間葉系幹細胞を用いた糖尿病性腎症に対する治療法の研究

〇Pub Med 掲載論文（2018 年）

1. An enriched environment prevents diabetes-induced cognitive impairment in rats by enhancing exosomal miR-146a secretion from endogenous bone marrow-derived mesenchymal stem cells.

   Kubota K, Nakano M, Kobayashi E, Mizue Y, Chikenji T, Otani M, Nagaishi K, Fujimiya M.
   PLoS One. 2018 Sep 21;13(9):e0204252. doi: 10.1371/journal.pone.0204252. eCollection 2018.
   PMID: 30240403 Free PMC Article

2. ACL Function in Bicruciate-Retaining Total Knee Arthroplasty.

   Okada Y, Teramoto A, Takagi T, Yamakawa S, Sakakibara Y, Shoji H, Watanabe K, Fujimiya M, Fujie H, Yamashita T.
   J Bone Joint Surg Am. 2018 Sep 5;100(17):e114. doi: 10.2106/JBJS.18.00099.
   PMID: 30180063

3. Effect of Initial Graft Tension During Calcaneofibular Ligament Reconstruction on Ankle Kinematics and Laxity.

   Sakakibara Y, Teramoto A, Takagi T, Yamakawa S, Okada Y, Shoji H, Kobayashi T, Fujimiya M, Fujie H, Watanabe K, Yamashita T.
   Am J Sports Med. 2018 Oct;46(12):2935-2941. doi: 10.1177/0363546518790254. Epub 2018 Aug 20.
   PMID: 30125125

4. A Multi-modality Approach Towards Elucidation of the Mechanism for Human Achilles Tendon Bending During Passive Ankle Rotation.

   Kinugasa R, Taniguchi K, Yamamura N, Fujimiya M, Katayose M, Takagi S, Edgerton VR, Sinha S.
   Sci Rep. 2018 Mar 12;8(1):4319. doi: 10.1038/s41598-018-22661-7.
   PMID: 29531268 Free PMC Article

5. Activated forms of astrocytes with higher GLT-1 expression are associated with cognitive

normal subjects with Alzheimer pathology in human brain.

Kobayashi E, Nakano M, Kubota K, Himuro N, Mizoguchi S, Chikenji T, Otani M, Mizue Y, Nagaishi K, Fujimiya M.
Sci Rep. 2018 Jan 26;8(1):1712. doi: 10.1038/s41598-018-19442-7.
PMID: 29374250 Free PMC Article

6. Umbilical cord extracts improve osteoporotic abnormalities of bone marrow-derived mesenchymal stem cells and promote their therapeutic effects on ovariectomised rats.

Saito A, Nagaishi K, Iba K, Mizue Y, Chikenji T, Otani M, Nakano M, Oyama K, Yamashita T, Fujimiya M.
Sci Rep. 2018 Jan 18;8(1):1161. doi: 10.1038/s41598-018-19516-6.
PMID: 29348535 Free PMC Article

解 剖 学 第 二 講 座

〇主な研究内容

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３　骨髄幹細胞を用いた糖尿病治療に関する研究
４　骨髄幹の細胞を用いたアルツハイマー型認知症治療に関する研究

〇Pub Med 掲載論文（2017 年）

1. Establishment of a refined culture method for rat colon organoids.

Isshiki H, Arimura Y, Nagaishi K, Kawakami K, Onodera K, Yamashita K, Naishiro Y, Fujimiya M,Imai K, Shinomura Y.
Biochem Biophys Res Commun. 2017 Jul 29;489(3):305-311.
doi: 10.1016/j.bbrc.2017.05.142. Epub 2017 May 27.
PMID: 28559141

2 .Osteopontin attenuates acute gastrointestinal graft-versus-host disease by preventing apoptosis of intestinal epithelial cells.

Kawakami K, Minami N, Matsuura M, Iida T, Toyonaga T, Nagaishi K, Arimura Y, Fujimiya M, Uede T, Nakase H.
Biochem Biophys Res Commun. 2017 Apr 1;485(2):468-475.
doi: 10.1016/j.bbrc.2017.02.047. Epub 2017 Feb 9.
PMID: 28192120

3 .Umbilical cord extracts improve diabetic abnormalities in bone marrow-derived mesenchymal stem cells and increase their therapeutic effects on diabetic nephropathy.

Nagaishi K, Mizue Y, Chikenji T, Otani M, Nakano M, Saijo Y, Tsuchida H, Ishioka S, Nishikawa A, Saito T, Fujimiya M.
Sci Rep. 2017 Aug 16;7(1):8484. doi: 10.1038/s41598-017-08921-y.
PMID: 28814814

4. Effect of wrist and finger flexion in relation to strain on the tendon origin of the extensor carpi radialis brevis: A cadaveric study simulating stretching exercises.

Shirato R, Aoki M, Iba K, Wada T, Hidaka E, Fujimiya M, Yamashita T.
Clin Biomech (Bristol, Avon). 2017 Aug 18;49:1-7. doi: 10.1016/j.clinbiomech.2017.08.008. [Epub ahead of print]
PMID: 28826010

5. Measurement of strain and tensile force of the supraspinatus tendon under conditions that simulates low angle isometric elevation of the gleno-humeral joint: Influence of adduction torque and joint positioning.

Miyamoto H, Aoki M, Hidaka E, Fujimiya M, Uchiyama E.

Clin Biomech (Bristol, Avon). 2017 Oct 13;50:92-98.
doi: 10.1016/j.clinbiomech.2017.10.014. [Epub ahead of print]
PMID: 29054030

6. PDGFR Signaling Mediates Hyperproliferation and Fibrotic Responses of Subsynovial Connective Tissue Cells in Idiopathic Carpal Tunnel Syndrome.

Saito Y, Chikenji T, Ozasa Y, Fujimiya M, Yamashita T, Gingery A, Iba K.
Sci Rep. 2017 Nov 23;7(1):16192. doi: 10.1038/s41598-017-16443-w.
PMID:29170419

〇その他論文（2017 年）

1.（実践講座）基礎的研究を身体障害領域の臨床作業療法に活かす
千見寺　貴子，齋藤　悠城
北海道作業療法 34 巻 3 号-2017.10 月

解 剖 学 第 二 講 座

〇主な研究内容

１　再生医学と変性疾患の解明のための骨髄幹細胞研究
２　脳腸相関
３　骨格標本を用いた生物人類学的研究
４　バイオメカニクス研究
５　腸管粘膜の修復、再生のための骨髄幹細胞研究
６　骨髄幹細胞を用いた糖尿病治療に関する研究
７　心理ストレス誘発生体反応の分子機構解明

〇Pub Med 掲載論文（2016 年）

１．Bone marrow-derived mesenchymal stem cells improve diabetes-induced cognitive impairment by exosome transfer into damaged neurons and astrocytes.
Nakano M1, Nagaishi K1, Konari N1, Saito Y1, Chikenji T1, Mizue Y1, Fujimiya M1.
Sci Rep. 2016 Apr 22;6:24805. doi: 10.1038/srep24805.
PMID: 27102354 Free PMC Article

２. Mesenchymal stem cell therapy ameliorates diabetic nephropathy via the paracrine effect of renal trophic factors including exosomes.
Nagaishi K1,2, Mizue Y1,2, Chikenji T1,2, Otani M2, Nakano M1, Konari N1, Fujimiya M1,2.
Sci Rep. 2016 Oct 10;6:34842. doi: 10.1038/srep34842.
PMID: 27721418 Free Article

３．The anterolateral ligament in a Japanese population: Study on prevalence and morphology.
Watanabe J1, Suzuki D2, Mizoguchi S3, Yoshida S4, Fujimiya M5.
J Orthop Sci. 2016 Sep;21(5):647-51. doi: 10.1016/j.jos.2016.06.004. Epub 2016 Jul 14.
PMID: 27423811

４．The Pullout Strength of Pedicle Screws Following Redirection After Lateral Wall Breach or End-plate Breach.
Goda Y1, Higashino K, Toki S, Suzuki D, Kobayashi T, Matsuura T, Fujimiya M, Hutton WC, Fukui Y, Sairyo K.
Spine (Phila Pa 1976). 2016 Aug 1;41(15):1218-23. doi: 10.1097/BRS.0000000000001600.
PMID: 27046637

５．The in situ force in the calcaneofibular ligament and the contribution of this ligament to ankle joint stability.
Kobayashi T, Yamakawa S, Watanabe K, Kimura K, Suzuki D, Otsubo H, Teramoto A, Fujimiya M, Fujie H, Yamashita T.
Clin Biomech (Bristol, Avon). 2016 Oct 14;40:8-13. doi: 10.1016/j.clinbiomech.2016.10.009. [Epub ahead of print]
PMID: 27771606

解 剖 学 第 二 講 座

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５　腸管粘膜の修復、再生のための骨髄幹細胞研究
６　骨髄幹細胞を用いた糖尿病治療に関する研究
７　心理ストレス誘発生体反応の分子機構解明

○Pub Med 掲載論文（2015 年）

１．Nakagaki S, Arimura Y, Nagaishi K, Isshiki H, Nasuno M, Watanabe S, Idogawa M, Yamashita K, Naishiro Y, Adachi Y, Suzuki H, Fujimiya M, Imai K, Shinomura Y.
Contextual niche signals towards colorectal tumor progression by mesenchymal stem cell in the mouse xenograft model.
J Gastroenterol. 2015 Feb 14. [Epub ahead of print]

２．Nagaishi K, Arimura Y, Fujimiya M.
Stem cell therapy for inflammatory bowel disease.
J Gastroenterol. 2015 Mar;50(3):280-6. doi: 10.1007/s00535-015-1040-9. Epub 2015 Jan 25.

３．Onodera K, Arimura Y, Isshiki H, Kawakami K, Nagaishi K, Yamashita K, Yamamoto E, Niinuma T, Naishiro Y, Suzuki H, Imai K, Shinomura Y.
Low-Frequency IL23R Coding Variant Associated with Crohn's Disease Susceptibility in Japanese Subjects Identified by Personal Genomics Analysis.
PLoS One. 2015 Sep 16;10(9):e0137801. doi: 10.1371/journal.pone.0137801. eCollection 2015.

４．Ishiyama G, Nishidate T, Ishiyama Y, Nishio A, Tarumi K, Kawamura M, Okita K, Mizuguchi T, Fujimiya M, Hirata K.
Anal cushion lifting method is a novel radical management strategy for hemorrhoids that does not involve excision or cause postoperative anal complications.
World J Gastrointest Surg. 2015 Oct 27;7(10):273-8. doi: 10.4240/wjgs.v7.i10.273.

５．Kataoka T, Moritomo H, Omori S, Iida A, Omokawa S, Suzuki D, Fujimiya M, Wada T, Aoki M, Yoshikawa H
Pressure and tendon strain in the sixth extensor compartment of the wrist during simulated provocative maneuvers for diagnosing extensor carpi ulnaris tendinitis.
J Orthop Sci. 2015 Nov;20(6):993-8. doi: 10.1007/s00776-015-0772-y. Epub 2015 Sep 16.

６．Shirato R, Wada T, Aoki M, Iba K, Kanaya K, Fujimiya M, Yamashita T.
Effect of simultaneous stretching of the wrist and finger extensors for lateral epicondylitis: a gross anatomical study of the tendinous origins of the extensor carpi radialis brevis and extensor digitorum communis.
J Orthop Sci. 2015 Nov;20(6):1005-11. doi:10.1007/s00776-015-0758-9. Epub 2015 Aug 11.

○その他論文（2015 年）

１．永石歓和，有村佳昭
MMP を介したシグナル伝達
分子消化器病　12(1)：　81 -86 2015

解 剖 学 第 二 講 座

○主な研究内容

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５　腸管粘膜の修復、再生のための骨髄幹細胞研究
６　骨髄幹細胞を用いた糖尿病治療に関する研究
７　心理ストレス誘発生体反応の分子機構解明

○Pub Med 掲載論文（2014 年）

１．Suzuki T[1], Shino K[2], Otsubo H[3], Suzuki D[4], Mae T[5], Fujimiya M[6], Yamashita T[3], Fujie H[7].
Biomechanical Comparison Between the Rectangular-Tunnel and the Round-Tunnel Anterior Cruciate Ligament Reconstruction Procedures With a Bone-Patellar Tendon-Bone Graft.
Arthroscopy. 2014 Oct;30(10):1294-302. doi: 10.1016/j.arthro.2014.05.027. Epub 2014 Jul 23.

２．Hidaka E[1], Aoki M, Izumi T, Suzuki D, Fujimiya M
Ligament strain on the iliofemoral, pubofemoral, and ischiofemoral ligaments in cadaver specimens: Biomechanical measurement and anatomical observation.
Clin Anat. 2014 Oct;27(7):1068-75. doi: 10.1002/ca.22425. Epub 2014 Jun 10.

３．Sawada A[1], Niiyama Y[1], Ataka K[2], Nagaishi K[2], Yamakage M[1], Fujimiya M[3].
Suppression of bone marrow-derived microglia in the amygdala improves anxiety-like behavior induced by chronic partial sciatic nerve ligation in mice.
Pain. 2014 Sep;155(9):1762-72. doi: 10.1016/j.pain.2014.05.031. Epub 2014 Jun 4.

４．Hinata N[1], Murakami G[2], Miyake H[3], Tanaka K[3], Abe S[4], Fujimiya M[5], Takenaka A[6], Fujisawa M[3].
Urethral sphincter fatigue after robot-assisted radical prostatectomy: descriptive questionnaire-based study and anatomic basis.
Urology. 2014 Jul;84(1):144-8. doi: 10.1016/j.urology.2014.01.046. Epub 2014 Apr 29.

５．Hinata N[1], Hieda K[2], Sasaki H[3], Kurokawa T[4], Miyake H[1], Fujisawa M[1], Murakami G[5], Fujimiya M[6].
Nerves and fasciae in and around the paracolpium or paravaginal tissue: an immunohistochemical study using elderly donated cadavers.
Anat Cell Biol. 2014 Mar;47(1):44-54. doi: 10.5115/acb.2014.47.1.44. Epub 2014 Mar 13.

６．Ishiyama G[1], Hinata N, Kinugasa Y, Murakami G, Fujimiya M.
Nerves supplying the internal anal sphincter: an immunohistochemical study using donated elderly cadavers.
Surg Radiol Anat. 2014 Dec;36(10):1033-42. doi: 10.1007/s00276-014-1289-3. Epub 2014 Apr 2.

7. Ando R[1], Taniguchi K[2], Saito A[3], Fujimiya M[4], Katayose M[2], Akima H[5].
Validity of fascicle length estimation in the vastus lateralis and vastus intermedius using ultrasonography.
J Electromyogr Kinesiol. 2014 Apr;24(2):214-20. doi: 10.1016/j.jelekin.2014.01.003. Epub 2014 Jan 15.

8. Nagaishi K[1], Ataka K, Echizen E, Arimura Y, Fujimiya M.
Mesenchymal stem cell therapy ameliorates diabetic hepatocyte damage in mice by inhibiting infiltration of bone marrow-derived cells.
Hepatology. 2014 May;59(5):1816-29. doi: 10.1002/hep.26975. Epub 2014 Apr 1.

9. Takizawa M[1], Suzuki D, Ito H, Fujimiya M, Uchiyama E.
Why adductor magnus muscle is large: the function based on muscle morphology in cadavers.
Scand J Med Sci Sports. 2014 Feb;24(1):197-203. doi: 10.1111/j.1600-0838.2012.01466.x. Epub 2012 Apr 27.

10. Nakai M[1], Abe M, Miyazaki A, Fujimiya M, Hiratsuka H.
Macroscopic and microscopic features of the mandibular condyle in autopsied elderly individuals.
Clin Anat. 2014 Apr;27(3):399-407. doi: 10.1002/ca.22102. Epub 2012 Jul 17.

11. Kinugasa Y[1], Arakawa T, Murakami G, Fujimiya M, Sugihara K.
Nerve supply to the internal anal sphincter differs from that to the distal rectum: an immunohistochemical study of cadavers.
Int J Colorectal Dis. 2014 Apr;29(4):429-36. doi: 10.1007/s00384-013-1811-9. Epub 2013 Dec 5.

12. Nasuno M[1], Arimura Y, Nagaishi K, Isshiki H, Onodera K, Nakagaki S, Watanabe S, Idogawa M, Yamashita K, Naishiro Y, Adachi Y, Suzuki H, Fujimiya M, Imai K, Shinomura Y.
Mesenchymal stem cells cancel azoxymethane-induced tumor initiation.
Stem Cells. 2014 Apr;32(4):913-25. doi: 10.1002/stem.1594.

13. Sano T[1], Aoki M, Tanaka Y, Izumi T, Fujimiya M, Yamashita T.
Glenohumeral joint motion after subscapularis tendon repair: an analysis of cadaver shoulder models.
J Orthop Surg Res. 2014 May 23;9:41. doi: 10.1186/1749-799X-9-41.

14. Hayashi S, Kim JH, Hwang SE, Shibata S, Fujimiya M, Murakami G, Cho BH[1].
Interface between intramembranous and endochondral ossification in human foetuses.
Folia Morphol (Warsz). 2014 May;73(2):199-205. doi: 10.5603/FM.2014.0029.

15. Iida A[1], Omokawa S, Moritomo H, Omori S, Kataoka T, Aoki M, Wada T, Fujimiya M, Tanaka Y.
Effect of wrist position on distal radioulnar joint stability: a biomechanical study.
J Orthop Res. 2014 Oct;32(10):1247-51. doi: 10.1002/jor.22669. Epub 2014 Jun 25.

16. Chikenji T, Gingery A, Zhao C, Vanhees M, Moriya T, Reisdorf R, An KN, Amadio PC.
Transforming growth factor-β (TGF-β) expression is increased in the subsynovial connective tissue in a rabbit model of carpal tunnel syndrome.
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Transforming growth factor-β (TGF-β) expression is increased in the subsynovial connective tissues of patients with idiopathic carpal tunnel syndrome.
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18. Yasuda S, Yoshida M, Yamagata H, Iwanaga Y, Suenaga H, Ishikawa K, Nakano M, Okuyama S, Furukawa Y, Furukawa S, Ishikawa T.
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○主な研究内容

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４　バイオメカニクス研究
５　腸管粘膜の修復、再生のための骨髄幹細胞研究
６　骨髄幹細胞を用いた糖尿病治療に関する研究
７　心理ストレス誘発生体反応の分子機構解明

○Pub Med 掲載論文（2013 年）

１. Watanabe S, Arimura Y, Nagaishi K, Isshiki H, Onodera K, Nasuno M, Yamashita K, Idogawa M, Naishiro Y, Murata M, Adachi Y, Fujimiya M, Imai K, Shinomura Y.
Conditioned mesenchymal stem cells produce pleiotropic gut trophic factors.
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Site-dependent differences in density of sympathetic nerve fibers in muscle-innervating nerves of the human head and neck.
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Characteristics of Japanese inflammatory bowel disease susceptibility loci.
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４. Chiba H, Ataka K, Iba K, Nagaishi K, Yamashita T, Fujimiya M.
Diabetes impairs the interactions between long-term hematopoietic stem cells and osteopontin-positive cells in the endosteal niche of mouse bone marrow.
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The adductor part of the adductor magnus is innervated by both obturator and sciatic nerves.
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６. Hosaka F, Rodríguez-Vázquez JF, Abe H, Murakami G, Fujimiya M, Ohguro H.
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Implications from platelet-leukocyte aggregates in inflammatory bowel disease: current and future status.
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Clin Anat. 2013 Mar 20. doi: 10.1002/ca.22227. [Epub ahead of print]

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A new distraction arthroplasty device using magnetic force; a cadaveric study.
Clin Biomech (Bristol, Avon). 2013 Apr;28(4):423-8.doi: 10.1016/j.clinbiomech. 2013.02.003. Epub 2013 Mar 15.

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[Ultrasound-guided subcostal and mid-axillary transverus abdominis plane block: a cadaveric study of the spread of injectate].[Article in Japanese]
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Retropancreatic fascia is absent along the pancreas facing the superior mesenteric artery: a histological study using elderly donated cadavers.
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Suprahyoid neck fascial configuration, especially in the posterior compartment of the parapharyngeal space: a histological study using late-stage human fetuses.
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Bone marrow-derived microglia infiltrate into the paraventricular nucleus of chronic psychological stress-loaded mice.
PLoS One. 2013 Nov 26;8(11):e81744. doi: 10.1371/journal.pone.0081744. eCollection 2013.

15. Nagaishi K[1], Ataka K, Echizen E, Arimura Y, Fujimiya M.
Mesenchymal stem cell therapy ameliorates diabetic hepatocyte damage in mice by inhibiting infiltration of bone marrow-derived cells.
Hepatology. 2014 May;59(5):1816-29. doi: 10.1002/hep.26975. Epub 2014 Apr 1.

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Bone marrow-derived microglia infiltrate into the paraventricular nucleus of chronic psychological stress-loaded mice.
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