

整形外科学講座

○主な研究内容

- 1 骨肉種の成因に関する免疫学的・分子生物学的研究
- 2 疼痛マーカーのプロテオミクス解析
- 3 四肢のバイオメカニクスに関する研究
- 4 脊椎疾患に関する定量的画像診断の研究
- 5 運動器における痛覚発生メカニズムに関する研究
- 6 骨塩量に影響を及ぼす諸因子の研究
- 7 神経細胞のイオンチャネルに関する研究
- 8 脊椎低侵襲手術の開発
- 9 各種関節鏡視下手術の開発
- 10 骨軟部悪性腫瘍に対する免疫療法の開発
- 11 骨粗鬆症に伴う疼痛の研究
- 12 スポーツ障害と外傷の予防と治療
- 13 慢性疼痛に対する有効な治療法の確立
- 14 アルコール性大腿骨頭壊死の発生機序に関する研究

○Pub Med 掲載論文 (2018 年)

1. The effects of teriparatide on acceleration of bone healing following atypical femoral fracture: comparison between daily and weekly administration.

Tsuchie H, Miyakoshi N, Iba K, Kasukawa Y, Nozaka K, Dohke T, Kosukegawa I, Aizawa T, Maekawa S, Abe H, Takeshima M, Tomite T, Segawa T, Ouchi K, Kinoshita H, Suzuki M, Yamashita T, Shimada Y.

Osteoporos Int. 2018 Dec;29(12):2659-2665. doi: 10.1007/s00198-018-4658-7. Epub 2018 Aug 13.

PMID: 30105400

2. Proteomics analysis of site- and stage-specific protein expression after peripheral nerve injury.

Aiki H, Wada T, Iba K, Oki G, Sohma H, Yamashita T, Kokai Y.

J Orthop Sci. 2018 Nov;23(6):1070-1078. doi: 10.1016/j.jos.2018.07.012. Epub 2018 Aug 9.

PMID: 30100211

3. Surgical treatment for partial rupture of the distal biceps tendon using palmaris longus tendon graft: A case report.

Ozasa Y, Wada T, Iba K, Yamashita T.

Acta Orthop Traumatol Turc. 2018 Jul;52(4):323-325. doi: 10.1016/j.aott.2018.02.006. Epub 2018 Mar 9.

PMID: 29526347 Free PMC Article

4. Antagonists to TRPV1, ASICs and P2X have a potential role to prevent the triggering of

regional bone metabolic disorder and pain-like behavior in tail-suspended mice.

Hanaka M, Iba K, Dohke T, Kanaya K, Okazaki S, Yamashita T.
Bone. 2018 May;110:284–294. doi: 10.1016/j.bone.2018.02.006. Epub 2018 Feb 14.
PMID: 29452264

5. Sagittal band reconstruction in the index finger using a modified Elson technique.

Takahashi N, Iba K, Hanaka M, Ozasa Y, Kanaya K, Yamashita T.
J Orthop Surg (Hong Kong). 2018 Jan–Apr;26(1):2309499017749985. doi:
10.1177/2309499017749985.
PMID: 29415617

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

7. Teriparatide rapidly improves pain-like behavior in ovariectomized mice in association with the downregulation of inflammatory cytokine expression.

Dohke T, Iba K, Hanaka M, Kanaya K, Okazaki S, Yamashita T.
J Bone Miner Metab. 2018 Sep;36(5):499–507. doi: 10.1007/s00774-017-0865-0. Epub 2017 Oct 5.
PMID: 28983699

8. Improvement in the rate of inadequate pharmaceutical treatment by orthopaedic surgeons for the prevention of a second fracture over the last 10 years.

Iba K, Dohke T, Takada J, Sasaki K, Sonoda T, Hanaka M, Miyano S, Yamashita T.
J Orthop Sci. 2018 Jan;23(1):127–131. doi: 10.1016/j.jos.2017.09.008. Epub 2017 Oct 2.
PMID: 28982605

9. Treatment of forearm deformity with radial head dislocation because of multiple osteochondromas: a series of three cases treated by simple axis correction and distraction osteogenesis of the ulna.

Iba K, Hanaka M, Ozasa Y, Takahashi N, Kanaya K, Yamashita T.
J Pediatr Orthop B. 2018 Jul;27(4):315–321. doi: 10.1097/BPB.0000000000000453.
PMID: 28306622

10. Comparison of Health-Related Quality of Life between Double-Door Laminoplasty and Selective Laminoplasty for Degenerative Cervical Myelopathy, with a Minimum Follow-Up of 5 Years.

Hirota R, Miyakoshi N, Yoshimoto M, Hongo M, Hamada S, Kasukawa Y, Oshigiri T, Ishikawa Y, Iesato N, Kudo D, Tanimoto K, Terashima Y, Takebayashi T, Shimada Y, Yamashita T.

Spine (Phila Pa 1976). 2018 Jul 27. doi: 10.1097/BRS.0000000000002814. [Epub ahead of print]
PMID: 30059486

11. Differentiating spinal intradural–extramedullary schwannoma from meningioma using MRI T2 weighted images.

Takashima H, Takebayashi T, Yoshimoto M, Onodera M, Terashima Y, Iesato N, Tanimoto K, Ogon I, Morita T, Yamashita T.
Br J Radiol. 2018 Dec;91(1092):20180262. doi: 10.1259/bjr.20180262. Epub 2018 Aug 7.
PMID: 30052467

12. Intravenous Infusion of Mesenchymal Stem Cells Alters Motor Cortex Gene Expression in a Rat Model of Acute Spinal Cord Injury.

Oshigiri T, Sasaki T, Sasaki M, Kataoka-Sasaki Y, Nakazaki M, Oka S, Morita T, Hirota R, Yoshimoto M, Yamashita T, Hashimoto-Torii K, Honmou O.
J Neurotrauma. 2018 Aug 10. doi: 10.1089/neu.2018.5793. [Epub ahead of print]
PMID: 29901416

13. Short-term Results of Microendoscopic Muscle-preserving Interlaminar Decompression versus Spinal Process Splitting Laminectomy.

Fukushi R, Yoshimoto M, Iesato N, Terashima Y, Takebayashi T, Yamashita T.
J Neurol Surg A Cent Eur Neurosurg. 2018 Nov;79(6):511–517. doi: 10.1055/s-0037-1608871.
Epub 2018 Jan 2.
PMID: 29294509

14. Analysis of intra and extramyocellular lipids in the multifidus muscle in patients with chronic low back pain using MR spectroscopy.

Takashima H, Takebayashi T, Ogon I, Yoshimoto M, Morita T, Imamura R, Nakanishi M, Nagahama H, Terashima Y, Yamashita T.
Br J Radiol. 2018 Feb;91(1083):20170536. doi: 10.1259/bjr.20170536. Epub 2018 Jan 2.
PMID: 29227152

15. Early surgical management of traumatic dislocation of the tibialis posterior tendon: a case report and review of the literature.

Sakakibara Y, Kura H, Teramoto A, Yamashita T.
J Med Case Rep. 2018 Nov 23;12(1):348. doi: 10.1186/s13256-018-1872-z.
PMID: 30466481 Free PMC Article

16. Investigation of factors related to the occurrence of osteochondral lesions of the talus by 3D bone morphology of the ankle.

Teramoto A, Shoji H, Kura H, Sakakibara Y, Kamiya T, Watanabe K, Yamashita T.
Bone Joint J. 2018 Nov;100-B(11):1487–1490. doi:
10.1302/0301-620X.100B11.BJJ-2018-0346.R1.
PMID: 30418063

17. Suture-button fixation and anterior inferior tibiofibular ligament augmentation with suture-tape for syndesmosis injury: A biomechanical cadaveric study.

Shoji H, Teramoto A, Suzuki D, Okada Y, Sakakibara Y, Matsumura T, Suzuki T, Watanabe K, Yamashita T.

Clin Biomech (Bristol, Avon). 2018 Dec;60:121-126. doi: 10.1016/j.clinbiomech.2018.10.014. Epub 2018 Oct 12.

PMID: 30342380

18. Modified distal tibial oblique osteotomy for osteoarthritis of the ankle: Operative procedure and preliminary results.

Watanabe K, Teramoto A, Kobayashi T, Sakakibara Y, Shoji H, Okimura S, Nuka S, Yamashita T.

J Orthop Sci. 2018 Sep 21. pii: S0949-2658(18)30244-6. doi: 10.1016/j.jos.2018.08.020. [Epub ahead of print]

PMID: 30245094

19. Radiographic assessment and clinical outcomes after total knee arthroplasty using an accelerometer-based portable navigation device.

Shoji H, Teramoto A, Suzuki T, Okada Y, Watanabe K, Yamashita T.

Arthroplast Today. 2018 Feb 12;4(3):319-322. doi: 10.1016/j.artd.2017.11.012. eCollection 2018 Sep.

PMID: 30186913 Free PMC Article

20. 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

21. 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

22. The distal margin of the lateral malleolus visible under ankle arthroscopy (articular tip) from the anteromedial portal, is separate from the ATFL attachment site of the fibula: A cadaver study.

Teramoto A, Shoji H, Sakakibara Y, Suzuki T, Watanabe K, Yamashita T.

J Orthop Sci. 2018 May;23(3):565-569. doi: 10.1016/j.jos.2018.01.002. Epub 2018 Feb 1.

PMID: 29395807

23. Nodular fasciitis involving the palm.

Emori M, Shimizu J, Murahashi Y, Mizushima E, Sugita S, Hasegawa T, Yamashita T.
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Tsuchie H, Emori M, Nagasawa H, Miyakoshi N, Murahashi Y, Mizushima E, Yamashita T, Shimada Y.
Int J Clin Oncol. 2018 Aug;23(4):775–782. doi: 10.1007/s10147-018-1255-x. Epub 2018 Feb 27.
PMID: 29488145

25. Restoration of proximal periprosthetic bone loss by denosumab in cementless total hip arthroplasty.

Nagoya S, Tateda K, Okazaki S, Kosukegawa I, Shimizu J, Yamashita T.
Eur J Orthop Surg Traumatol. 2018 Dec;28(8):1601–1607. doi: 10.1007/s00590-018-2223-x.
Epub 2018 May 17.
PMID: 29774416

26. Suppression of Sympathetic Nerve Sprouting by Local Administration of an α -antagonist Around the Dorsal Root Ganglion in a Lumbar Radiculopathy Model.

Ogon I, Takebayashi T, Miyakawa T, Iwase T, Tanimoto K, Terashima Y, Jimbo S, Kobayashi T, Tohse N, Yamashita T.
Spine (Phila Pa 1976). 2018 Mar 15;43(6):E321–E326. doi: 10.1097/BRS.0000000000002333.
PMID: 28723879

27. Midterm outcomes after arthroscopic surgery for hypermobile lateral meniscus in adults: Restriction of paradoxical motion.

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28. Intravenous Infusion of Mesenchymal Stem Cells Alters Motor Cortex Gene Expression in a Rat Model of Acute Spinal Cord Injury.

Oshigiri T, Sasaki T, Sasaki M, Kataoka-Sasaki Y, Nakazaki M, Oka S, Morita T, Hirota R, Yoshimoto M, Yamashita T, Hashimoto-Torii K, Honmou O.
J Neurotrauma. 2018 Aug 10. doi: 10.1089/neu.2018.5793. [Epub ahead of print]
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29. Restoration of proximal periprosthetic bone loss by denosumab in cementless total hip

arthroplasty.

Nagoya S, Tateda K, Okazaki S, Kosukegawa I, Shimizu J, Yamashita T.
Eur J Orthop Surg Traumatol. 2018 Dec;28(8):1601-1607. doi: 10.1007/s00590-018-2223-x.
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30. Multi-layered PLLA-nanosheets loaded with FGF-2 induce robust bone regeneration with controlled release in critical-sized mouse femoral defects.

Murahashi Y, Yano F, Nakamoto H, Maenohara Y, Iba K, Yamashita T, Tanaka S, Ishihara K, Okamura Y, Moro T, Saito T.
Acta Biomater. 2018 Dec 21. pii: S1742-7061(18)30756-6. doi: 10.1016/j.actbio.2018.12.031. [Epub ahead of print]
PMID: 30583110

31. A Case Report of Vertebral Osteomyelitis Caused by Peptostreptococcus micros.

Shimizu J, Yoshimoto M, Takebayashi T, Terashima Y, Yamashita T.
J Orthop Case Rep. 2018 May-Jun;8(3):7-9. doi: 10.13107/jocr.2250-0685.1084.
PMID: 30584506

32. Morphological evaluation of the calcaneofibular ligament in different ankle positions using a three-dimensional MRI sequence.

Akatsuka Y, Teramoto A, Takashima H, Watanabe K, Yamashita T.
Surg Radiol Anat. 2018 Dec 11. doi: 10.1007/s00276-018-2152-8. [Epub ahead of print]
PMID: 30539208

33. Suture-Button Fixation and Mini-Open Anterior Inferior Tibiofibular Ligament Augmentation Using Suture Tape for Tibiofibular Syndesmosis Injuries.

Teramoto A, Shoji H, Sakakibara Y, Suzuki T, Watanabe K, Yamashita T.
J Foot Ankle Surg. 2018 Jan - Feb;57(1):159-161. doi: 10.1053/j.jfas.2017.07.007.
PMID: 29268900

34. Arthroscopic Resection for Benign Fibrous Histiocytoma in the Epiphysis of the Femur.

Shimizu J, Emori M, Okada Y, Hasegawa T, Yamashita T.
Case Rep Orthop. 2018 Nov 18;2018:8030862. doi: 10.1155/2018/8030862. eCollection 2018.
PMID: 30581643 Free PMC Article

35. Secondary malignant giant cell tumor of bone with histone H3.3 mutation: A case series.

Emori M, Nagoya S, Sugawara M, Mizushima E, Shimizu J, Murahashi Y, Murase K, Takada K, Sugita S, Takagi M, Hasegawa T, Yamashita T.
J Orthop Sci. 2018 Dec 3. pii: S0949-2658(18)30325-7. doi: 10.1016/j.jos.2018.11.002.
[Epub ahead of print] No abstract available.
PMID: 30522923

36. Detection of specific gene rearrangements by fluorescence in situ hybridization in 16

cases of clear cell sarcoma of soft tissue and 6 cases of clear cell sarcoma-like gastrointestinal tumor.

Segawa K, Sugita S, Aoyama T, Kubo T, Asanuma H, Sugawara T, Ito Y, Tsujiwaki M, Fujita H, Emori M, Hasegawa T.

Diagn Pathol. 2018 Sep 15;13(1):73. doi: 10.1186/s13000-018-0752-6.

PMID: 30219084 Free PMC Article

37. Prospective comparison of various radiological response criteria and pathological response to preoperative chemotherapy and survival in operable high-grade soft tissue sarcomas in the Japan Clinical Oncology Group study JCOG0304.

Tanaka K, Ogawa G, Mizusawa J, Naka N, Kawai A, Takahashi M, Hiruma T, Matsumoto Y, Tsuchiya H, Nakayama R, Hatano H, Emori M, Hosaka M, Yoshida Y, Toguchida J, Abe S, Asanuma K, Yokoyama R, Hiraga H, Yonemoto T, Morii T, Matsumoto S, Nagano A, Yoshikawa H, Fukuda H, Ozaki T, Iwamoto Y.

World J Surg Oncol. 2018 Aug 10;16(1):162. doi: 10.1186/s12957-018-1462-y.

PMID: 30097070 Free PMC Article

38. Clinical outcome of primary giant cell tumor of bone after curettage with or without perioperative denosumab in Japan: from a questionnaire for JCOG 1610 study.

Urakawa H, Yonemoto T, Matsumoto S, Takagi T, Asanuma K, Watanuki M, Takemoto A, Naka N, Matsumoto Y, Kawai A, Kunisada T, Kubo T, Emori M, Hiraga H, Hatano H, Tsukushi S, Nishida Y, Akisue T, Morii T, Takahashi M, Nagano A, Yoshikawa H, Sato K, Kawano M, Hiraoka K, Tanaka K, Iwamoto Y, Ozaki T.

World J Surg Oncol. 2018 Aug 8;16(1):160. doi: 10.1186/s12957-018-1459-6.

PMID: 30089488 Free PMC Article

39. Giant cell-rich osteosarcoma of the vertebra with murine double minute chromosome 2- and cyclin-dependent kinase 4-positive and histone H3F3A mutant p.Gly34Trp-negative immunophenotypes.

Ito Y, Sugita S, Segawa K, Sugawara T, Tsujiwaki M, Fujita H, Ono Y, Morita T, Emori M, Hasegawa T.

Pathol Int. 2018 May;68(5):324-326. doi: 10.1111/pin.12650. Epub 2018 Feb 15. No abstract available.

PMID: 29446514

40. Segmental Lordosis of the Spondylolytic Vertebrae in Adolescent Lumbar Spondylolysis: Differences between Bilateral L5 and L4 Spondylolysis.

Sugawara K, Iesato N, Katayose M.

Asian Spine J. 2018 Dec;12(6):1037-1042. doi: 10.31616/asj.2018.12.6.1037. Epub 2018 Oct 16.

PMID: 30322253 Free PMC Article

41. Radius of curvature at the talocrural joint surface: inference of subject-specific kinematics.

Nozaki S, Watanabe K, Kato T, Miyakawa T, Kamiya T, Katayose M.
Surg Radiol Anat. 2018 Aug 30. doi: 10.1007/s00276-018-2098-x. [Epub ahead of print]
PMID: 30167817

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- 14 アルコール性大腿骨頭壊死の発生機序に関する研究

○Pub Med 掲載論文 (2017 年)

1. Regional osteoporosis due to osteoclast activation as a trigger for the pain-like behaviors in tail-suspended mice.

Dohke T, Iba K, Hanaka M, Kanaya K, Abe Y, Okazaki S, Yamashita T.
J Orthop Res. 2017 Jun;35(6):1226-1236. doi: 10.1002/jor.23373. Epub 2017 Mar 8.
PMID: 27431941

2. Magnetic resonance spectroscopic analysis of multifidus muscles lipid content and association with spinopelvic malalignment in chronic low back pain.

Ogon I, Takebayashi T, Takashima H, Morita T, Yoshimoto M, Terashima Y, Yamashita T.
Br J Radiol. 2017 May;90(1073):20160753. doi: 10.1259/bjr.20160753. Epub 2017 Mar 14.
PMID: 28291378

3. Suppression of Sympathetic Nerve Sprouting by Local Administration of an α -antagonist Around the Dorsal Root Ganglion in a Lumbar Radiculopathy Model.

Ogon I, Takebayashi T, Miyakawa T, Iwase T, Tanimoto K, Terashima Y, Jimbo S, Kobayashi T, Tohse N, Yamashita T.
Spine (Phila Pa 1976). 2017 Jul 18. doi: 10.1097/BRS.0000000000002333. [Epub ahead of print]
PMID: 28723879

4. Further significant effects of eldecalcitol on bone resorption markers and bone mineral density in postmenopausal osteoporosis patients having undergone long-term bisphosphonate treatment.

Iba K, Sonoda T, Takada J, Dohke T, Yamashita T.
J Bone Miner Metab. 2017 Mar;35(2):171–176. doi: 10.1007/s00774-016-0738-y. Epub 2016 Jan 30.
PMID: 26832388

5. Teriparatide rapidly improves pain-like behavior in ovariectomized mice in association with the downregulation of inflammatory cytokine expression.

Dohke T, Iba K, Hanaka M, Kanaya K, Okazaki S, Yamashita T.
J Bone Miner Metab. 2017 Oct 5. doi: 10.1007/s00774-017-0865-0. [Epub ahead of print]
PMID: 28983699

6. Long-Term Outcome of Microendoscopic Discectomy for Lumbar Disk Herniation. A Clinical Study of Consecutive 112 Cases with More than 5-Year Follow-Up.

Yoshimoto M, Iesato N, Terashima Y, Tanimoto K, Takebayashi T, Yamashita T.
J Neurol Surg A Cent Eur Neurosurg. 2017 Sep;78(5):446–452. doi: 10.1055/s-0037-1598657.
Epub 2017 Mar 1.
PMID: 28249307

7. Tibiotalocalcaneal Arthrodesis Using a Soft Tissue-Preserved Fibular Graft for Treatment of Large Bone Defects in the Ankle.

Watanabe K, Teramoto A, Kobayashi T, Ogon I, Sakakibara Y, Kamiya T, Suzuki T, Yamashita T.
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PMID: 28552043

8. MRI depiction and 3D visualization of three anterior cruciate ligament bundles.

Otsubo H, Akatsuka Y, Takashima H, Suzuki T, Suzuki D, Kamiya T, Ikeda Y, Matsumura T, Yamashita T, Shino K.
Clin Anat. 2017 Mar;30(2):276–283. doi: 10.1002/ca.22810. Epub 2016 Dec 2.
PMID:27888604

9. Repair of Acute Patellar Tendon Rupture Augmented with Strong Sutures.

Otsubo H, Kamiya T, Suzuki T, Kuroda M, Ikeda Y, Matsumura T, Yamashita T.
J Knee Surg. 2017 May;30(4):336–340. doi: 10.1055/s-0036-1586725. Epub 2016 Aug 16.
PMID: 27529600

10. Analysis of Proprioception of Hip Joint in Total Hip Arthroplasty.

Onishi H, Nagoya S, Takebayashi T, Yamashita T.
Open Journal of Orthopedics 7: 53–62. 2017.

11. Vascularised fibular grafts for reconstruction of extremity bone defects after resection of bone and soft-tissue tumours : a single institutional study of 49 patients.

Emori M, Kaya M, Irifune H, Takahashi N, Shimizu J, Mizushima E, Murahashi Y, Yamashita T.

Bone Joint J. 2017 Sep;99-B(9):1237-1243. doi: 10.1302/0301-620X.99B9.BJJ-2017-0219.R1. PMID:28860406

12. A typical presentation of primary pulmonary epithelioid sarcoma misdiagnosed as non-small cell lung cancer.

Emori M, Tamakawa M, Kaya M, Takada K, Murase K, Fujita C, Sato S, Takahashi R, Hatanaka KC, Sugita S, Hirano H, Yamashita T, Hasegawa T.

Pathol Int. 2017 Apr;67(4):222-224. doi: 10.1111/pin.12503. Epub 2017 Jan 12. No abstract available.

PMID: 28078765

13. Implication of chemo-resistant memory T cells for immune surveillance in patients with sarcoma receiving chemotherapy.

Shibayama Y, Tsukahara T, Emori M, Murata K, Mizushima E, Hirohashi Y, Kanaseki T, Nakatsugawa M, Kubo T, Yamashita T, Sato N, Torigoe T.

Cancer Sci. 2017 Sep;108(9):1739-1745. doi: 10.1111/cas.13319. Epub 2017 Aug 7.

PMID: 28699227

14. Investigation of Cervical Intervertebral Discs Before and After Surgery for Adolescent Idiopathic Scoliosis.

Takimura K, Ohara T, Tsuji T, Suzuki Y, Saito T, Nohara A, Tauchi R, Takebayashi T, Yamashita T, Kawakami N

Journal Spine 6: 389, 2017.

15. Treatment of forearm deformity with radial head dislocation because of multiple osteochondromas: a series of three cases treated by simple axis correction and distraction osteogenesis of the ulna.

Iba K, Hanaka M, Ozasa Y, Takahashi N, Kanaya K, Yamashita T.

J Pediatr Orthop B. 2017 Mar 16. doi: 10.1097/BPB.0000000000000453. [Epub ahead of print]

PMID: 28306622

16. IGF-1 Gene Transfer to Human Synovial MSCs Promotes Their Chondrogenic Differentiation Potential without Induction of the Hypertrophic Phenotype.

Ikeda Y, Sakaue M, Chijimatsu R, Hart DA, Otsubo H, Shimomura K, Madry H, Suzuki T, Yoshikawa H, Yamashita T, Nakamura N.

Stem Cells Int 2017; 2017: 5804147. doi: 10.1155/2017/5804147.

17. Preoperative corrections are required for planning of patient-specific instrumentation in total knee arthroplasty.

Okada Y, Teramoto A, Suzuki T, Kii Y, Watanabe K, Yamashita T.

Knee. 2017 Dec;24(6):1492-1497. doi: 10.1016/j.knee.2017.09.008. Epub 2017 Oct 16.

PMID:29046242

18. Improvement in the rate of inadequate pharmaceutical treatment by orthopaedic surgeons for the prevention of a second fracture over the last 10 years.

Iba K, Dohke T, Takada J, Sasaki K, Sonoda T, Hanaka M, Miyano S, Yamashita T.
J Orthop Sci. 2017 Oct 2. pii: S0949-2658(17)30239-7. doi: 10.1016/j.jos.2017.09.008.
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PMID: 28982605

19. Factors affecting survival of patients in the acute phase of upper cervical spine injuries.

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整形外科学講座

○主な研究内容

- 1 骨肉種の成因に関する免疫学的・分子生物学的研究
- 2 疼痛マーカーのプロテオミクス解析
- 3 四肢のバイオメカニクスに関する研究
- 4 脊椎疾患に関する定量的画像診断の研究
- 5 運動器における痛覚発生メカニズムに関する研究
- 6 骨塩量に影響を及ぼす諸因子の研究
- 7 神経細胞のイオンチャネルに関する研究
- 8 脊椎低侵襲手術の開発
- 9 各種関節鏡視下手術の開発
- 10 骨軟部悪性腫瘍に対する免疫療法の開発
- 11 骨粗鬆症に伴う疼痛の研究
- 12 スポーツ障害と外傷の予防と治療
- 13 慢性疼痛に対する有効な治療法の確立
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整形外科学講座

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- 14 アルコール性大腿骨頭壊死の発生機序に関する研究

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整形外科学講座

○主な研究内容

- 1 骨肉種の成因に関する免疫学的・分子生物学的研究
- 2 疼痛マーカープロテオミクス解析
- 3 四肢のバイオメカニクスに関する研究
- 4 脊椎疾患に関する定量的画像診断の研究
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- 14 アルコール性大腿骨頭壊死の発生機序に関する研究

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