



## Masahiro Maruyama

Postdoctoral Research Fellow, Orthopedic Surgery

### Bio

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#### HONORS AND AWARDS

- Travel Award in Orthopaedic Research Translation, ORS (2018)
- JOSSM USA-Travelling fellowship award, The Japanese Orthopaedic Society for Sports Medicine (2017)

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Yamagata University Faculty of Medicine, Japan (2018)
- Doctor of Medicine, Yamagata University Faculty of Medicine, Japan (2004)

### Publications

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#### PUBLICATIONS

- **Treating Titanium Particle-Induced Inflammation with Genetically Modified NF-kappa B Sensing IL-4 Secreting or Preconditioned Mesenchymal Stem Cells in Vitro** *ACS BIOMATERIALS SCIENCE & ENGINEERING*  
Kohno, Y., Lin, T., Pajarinen, J., Jamsen, E., Romero-Lopez, M., Maruyama, M., Lo, C., Ueno, M., Nathan, K., Yao, Z., Goodman, S. B.  
2019; 5 (6): 3032–38
- **Osteogenic ability of rat bone marrow concentrate is at least as efficacious as mesenchymal stem cells in vitro.** *Journal of biomedical materials research. Part B, Applied biomaterials*  
Kohno, Y., Lin, T., Pajarinen, J., Romero-Lopez, M., Maruyama, M., Huang, J., Nathan, K., Yao, Z., Goodman, S. B.  
2019
- **Preconditioned or IL4-Secreting Mesenchymal Stem Cells Enhanced Osteogenesis at Different Stages.** *Tissue engineering. Part A*  
Lin, T., Kohno, Y., Huang, J., Romero-Lopez, M., Maruyama, M., Ueno, M., Pajarinen, J., Nathan, K., Yao, Z., Yang, F., Wu, J., Goodman, S. B.  
2019
- **Trained murine mesenchymal stem cells have anti-inflammatory effect on macrophages, but defective regulation on T-cell proliferation.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*  
Lin, T., Pajarinen, J., Kohno, Y., Huang, J., Maruyama, M., Romero-Lopez, M., Nathan, K., Yao, Z., Goodman, S. B.  
2018: fj201801845R
- **NF kappa B sensing IL-4 secreting mesenchymal stem cells mitigate the proinflammatory response of macrophages exposed to polyethylene wear particles** *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A*  
Lin, T., Kohno, Y., Huang, J., Romero-Lopez, M., Pajarinen, J., Maruyama, M., Nathan, K., Yao, Z., Goodman, S. B.  
2018; 106 (10): 2744–52
- **The effects of a functionally-graded scaffold and bone marrow-derived mononuclear cells on steroid-induced femoral head osteonecrosis.** *Biomaterials*  
Maruyama, M., Nabeshima, A., Pan, C., Behn, A. W., Thio, T., Lin, T., Pajarinen, J., Kawai, T., Takagi, M., Goodman, S. B., Yang, Y. P.  
2018; 187: 39–46

- **NFkappaB sensing IL-4 secreting mesenchymal stem cells mitigate the proinflammatory response of macrophages exposed to polyethylene wear particles.** *Journal of biomedical materials research. Part A*  
Lin, T., Kohno, Y., Huang, J., Romero-Lopez, M., Pajarinen, J., Maruyama, M., Nathan, K., Yao, Z., Goodman, S. B.  
2018
- **Transplanted interleukin-4--secreting mesenchymal stromal cells show extended survival and increased bone mineral density in the murine femur.** *Cytotherapy*  
Lin, T., Pajarinen, J., Kohno, Y., Maruyama, M., Romero-Lopez, M., Huang, J., Nathan, K., Khan, T. N., Yao, Z., Goodman, S. B.  
2018
- **Mesenchymal stem cell-macrophage crosstalk and bone healing.** *Biomaterials*  
Pajarinen, J., Lin, T., Gibon, E., Kohno, Y., Maruyama, M., Nathan, K., Lu, L., Yao, Z., Goodman, S. B.  
2018
- **Diagnosis and treatment of osteochondritis dissecans of the humeral capitellum.** *Journal of orthopaedic science : official journal of the Japanese Orthopaedic Association*  
Maruyama, M., Takahara, M., Satake, H.  
2018; 23 (2): 213–19
- **Outcome of conservative treatment for Little League shoulder in young baseball players: factors related to incomplete return to baseball and recurrence of pain.** *Journal of shoulder and elbow surgery*  
Harada, M., Takahara, M., Maruyama, M., Kondo, M., Uno, T., Takagi, M., Mura, N.  
2018; 27 (1): 1–9
- **Danger of frustrated sensors: Role of Toll-like receptors and NOD-like receptors in aseptic and septic inflammations around total hip replacements** *JOURNAL OF ORTHOPAEDIC TRANSLATION*  
Takagi, M., Takakubo, Y., Pajarinen, J., Naganuma, Y., Oki, H., Maruyama, M., Goodman, S. B.  
2017; 10: 68–85
- **Comparison of the Effects of Osteochondral Autograft Transplantation With Platelet-Rich Plasma or Platelet-Rich Fibrin on Osteochondral Defects in a Rabbit Model.** *The American journal of sports medicine*  
Maruyama, M., Satake, H., Suzuki, T., Honma, R., Naganuma, Y., Takakubo, Y., Takagi, M.  
2017; 45 (14): 3280–88
- **Treatment for Ulnar Neuritis Around the Elbow in Adolescent Baseball Players: Factors Associated With Poor Outcome.** *The American journal of sports medicine*  
Maruyama, M., Satake, H., Takahara, M., Harada, M., Uno, T., Mura, N., Takagi, M.  
2017; 45 (4): 803–9
- **Ultrasonographic Assessment of the Flexor Pollicis Longus Tendon After Plate Fixation.** *Orthopedics*  
Kadoma, C., Takahara, M., Maruyama, M., Satake, H., Takagi, M.  
2017; 40 (1): e104–e108
- **Complications of Distal Radius Fractures Treated by Volar Locking Plate Fixation.** *Orthopedics*  
Satake, H., Hanaka, N., Honma, R., Watanabe, T., Inoue, S., Kanauchi, Y., Kato, Y., Nakajima, T., Sato, D., Eto, J., Maruyama, M., Naganuma, Y., Sasaki, et al  
2016; 39 (5): e893–6
- **Bone-peg grafting for osteochondritis dissecans of the humeral capitellum.** *Journal of orthopaedic surgery (Hong Kong)*  
Maruyama, M., Harada, M., Satake, H., Tomohiro, U., Takagi, M., Takahara, M.  
2016; 24 (1): 51–56
- **Characteristics and prognosis of medial epicondylar fragmentation of the humerus in male junior tennis players.** *Journal of shoulder and elbow surgery*  
Harada, M., Takahara, M., Maruyama, M., Takagi, M.  
2014; 23 (10): 1514–20
- **Outcomes of an open autologous osteochondral plug graft for capitellar osteochondritis dissecans: time to return to sports.** *The American journal of sports medicine*  
Maruyama, M., Takahara, M., Harada, M., Satake, H., Takagi, M.  
2014; 42 (9): 2122–27

- **Assessment of medial elbow laxity by gravity stress radiography: comparison of valgus stress radiography with gravity and a Telos stress device.** *Journal of shoulder and elbow surgery*  
Harada, M., Takahara, M., Maruyama, M., Nemoto, T., Koseki, K., Kato, Y.  
2014; 23 (4): 561–66
  
- **Radiographic features of Kirner's deformity.** *Congenital anomalies*  
Satake, H., Ogino, T., Eto, J., Maruyama, M., Watanabe, T., Takagi, M.  
2013; 53 (2): 78–82
  
- **Preoperative imaging criteria for unstable osteochondritis dissecans of the capitellum.** *Clinical orthopaedics and related research*  
Satake, H., Takahara, M., Harada, M., Maruyama, M.  
2013; 471 (4): 1137–43
  
- **Snapping elbow with congenital radial head dislocation: case report.** *The Journal of hand surgery*  
Maruyama, M., Takahara, M., Kikuchi, N., Ito, K., Watanabe, T., Ogino, T.  
2010; 35 (6): 981–85
  
- **De Quervain disease caused by abductor pollicis longus tenosynovitis: a report of three cases.** *Hand surgery : an international journal devoted to hand and upper limb surgery and related research : journal of the Asia-Pacific Federation of Societies for Surgery of the Hand*  
Maruyama, M., Takahara, M., Kikuchi, N., Ito, K., Watanabe, T., Ogino, T.  
2009; 14 (1): 43–47