

- necrosis with vascularized iliac crest transplants. Clin. Orthop. Rel. Res., 386: 100-5, 2001.
14. Hasegawa, Y., Sakano, S., Iwase, T., Iwasada, S., Torii, S., Iwata, H. Pedicle bone grafting *versus* transtrochanteric rotational osteotomy for avascular necrosis of the femoral head. J. Bone Joint Surg. [Br] 85B: 191-8, 2003.
 15. Gangji, V., Hauzeur, J. P. Treatment of osteonecrosis of the femoral head with implantation of autologous bone-marrow cells. J. Bone Joint Surg. [Am], 87A: 106-12, 2005.
 16. Ikeguchi R., Kakinoki R., Aoyama T., Shibata K., Otsuka S., Fukiage K., Nishijo K., Ishibe T., Shima Y., Otsuki B., Azuma T., Tsutsumi S., Nakayama T., Otsuka T., Nakamura T., Toguchida J. Regeneration of osteonecrosis of canine scapho-lunate using bone marrow stromal cells: possible therapeutic approach for Kienböck disease. Cell transplantation 15:411-422, 2006.
 17. Daniel R., Javier G-C., Maria C. M., Ricardo de la F., Juan C. C., Alison C.L., Antonio B. Spontaneous human adult stem cell transformation. Cancer Res. 65: 3035-9, 2005.
 18. Kraitchman D.L., Tatsumi M., Gilson W.D., Ishimori T., Kedziorek D., Walczak P., Segars W.P., Chen H.H., Fritzsche D., Izbudak I., Young R.G., Marcelino M., Pittenger M.F., Solaiyappan M., Boston R.C., Tsui B.M., Wahl R.L., Bulte J.W. Dynamic imaging of allogeneic mesenchymal stem cells trafficking to myocardial infarction. Circulation. 112:1451-61, 2005.
 19. Rochefort G.Y., Vaudin P., Bonnet N., Pages J.C., Domenech J., Charbord P., Eder V. Influence of hypoxia on the domiciliation of mesenchymal stem cells after infusion into rats: possibilities of targeting pulmonary artery remodeling via cells therapies? Respir Res. 27:125, 2005.
 20. Tatebe M., Nakamura R., Kagami H., Okada K., Ueda M. Differentiation of transplanted mesenchymal stem cells in a large osteochondral defect in rabbit. Cytotherapy. 7:520-30, 2005.
 21. Lichtman, D. M., Alexander, A. H., Mack, G. R., Gunther, S. F. Kienböck's disease-update on silicone replacement arthroplasty. J. Hand Surg. 7A:343-7,1982.
 22. Smith B.S., Cooney W.P. Revision of failed bone grafting for nonunion of the scaphoid: treatment options and results. Clin Orthop 327:98-109, 1996.

23. Appendix

- Appendix 1** 重篤な有害事象に関する報告書等
- Appendix 2** Invitrogen社製品のcGMP品質に関する証明書
- Appendix 3** 研究者の教育研修歴