

<p>(整形外科学)</p> <p>中島 康晴 教授 本村 悟朗 准教授 濱井 敏 准教授 人工関節生体材料学講座准教授</p> <p>連絡先： nakashima.yasuharu.453@m.kyushu-u.ac.jp motomura.goro.014@m.kyushu-u.ac.jp hamai.satoshi.075@m.kyushu-u.ac.jp</p>	<p>研究内容 (股関節関連テーマ) 1：ステロイド性大腿骨頭壊死症の病態解明と予防法開発 2：股関節形態の三次元的検討 3：股関節鏡を用いた骨頭軟骨の定量的評価 4：有限要素法を用いた股関節応力の解析</p> <p>(バイオメカニクス関連テーマ) 1：人工膝関節動態解析 2：人工膝関節の接触圧測定 3：膝周囲骨切り術の研究 4：軟骨の再生・軟骨移植</p> <p>(骨・軟部腫瘍関連テーマ) 1：悪性骨軟部腫瘍の患肢温存手術と生命予後改善 2：悪性骨軟部腫瘍の転移、浸潤抑制 3：Ewing 肉腫の癌化機構と遺伝子治療 4：悪性腫瘍骨転移の機構 5：軟骨肉腫の癌化機構 6：悪性骨軟部腫瘍の薬剤感受性因子</p> <p>(骨関節の基礎関連テーマ) 1：破骨細胞分化の制御による新規骨粗鬆症治療標的の解明 2：骨破壊性疾患における骨細胞の役割 3：関節リウマチにおける関節滑膜増生の分子機序の解明 4：関節リウマチにおける T 細胞活性化機構の解明 5：変形性関節症における軟骨変性・破壊の病態解明 6：軟骨分化メカニズムに関与する因子の発見と機能解析 7：変形性関節症と他臓器疾患におけるクロストークの解明 8：脊髄損傷と脊髄再生</p>
<p>Department of Orthopaedic Surgery</p> <p>Professor Yasuharu Nakashima</p> <p>Associate Professor Goro Motomura</p> <p>Associate Professor Satoshi Hamai</p> <p>E-mail: nakashima.yasuharu.453@m.kyushu-u.ac.jp motomura.goro.014@m.kyushu-u.ac.jp hamai.satoshi.075@m.kyushu-u.ac.jp</p>	<p>Research Interests: Contents of Teaching/ Research Themes (Hip joint) 1. Prevention of the steroid-induced osteonecrosis of the femoral head 2. Morphological analysis of the hip joint 3. Quantitative assessment of the joint cartilage using arthroscopy 4. Analysis of the joint stress distribution using finite element model</p> <p>(Biomechanics in the knee) 1. Motion analysis of total knee arthroplasty 2. Contact stress analysis of total knee arthroplasty 3. Research on the osteotomy around the knee 4. Cartilage regeneration and implantation</p> <p>(Bone and soft tissue tumor) 1. Limb salvation and prognostic improvement in the malignant bone and soft tissue tumor 2. Inhibition of metastasis/invasion of the malignant bone and soft tissue tumor 3. Oncogenesis of Ewing's sarcoma and development of gene therapy 4. Regulation of bone metastasis in cancer 5. Oncogenesis of chondrosarcoma 6. Regulatory mechanisms of the chemosensitivity in malignant bone and soft tissue tumors</p> <p>(Basic science in bone and joint) 1. Elucidation of new target for osteoporosis treatment by regulating osteoclastogenesis 2. Role of osteocyte in osteolytic diseases 3. Analysis of the molecular mechanisms of synovitis in rheumatoid arthritis 4. Analysis of the mechanism of T-cell activation in rheumatoid arthritis 5. Transcriptional regulation of chondrogenic differentiation 6. Pathological clarifications of cartilage degeneration in osteoarthritis 7. Finding and analysis of novel factors involved in the mechanisms of chondrocyte differentiation 8. Elucidation in crosstalk between osteoarthritis and diseases in other organs 9. Spinal cord injury and spinal regeneration</p>