Section of Orthopedic Surgery

1. Staffs and Students (April 2010)

Professor Takeshi MUNETA
Assistant Professor Young-Jin JU
Associate Professor Ichiro SEKIYA (Section of Cartilage Regeneration)
Assistant Professor Hideyuki KOGA (Section of Cartilage Regeneration)
Assistant Professor Toshiyuki MORITO (Section of Cartilage Regeneration)
Graduate Student Toru TAKAHASHI, Tomomasa NAKAMURA, Takashi MIYAMOTO, Sigenori YAGI, Mika YAMAGA, Siro Suzuki, Kazumasa MIYATAKE, Daisuke HATSUSHIKA, Hiroki KATAGIRI, Koji Otabe, Jun Yamada, and Arata Yuki

2. Purpose of Education

We are operating at the "department of orthopaedic surgery of the medical university" in corporation with the section of orthopaedic surgery of the graduate school. As the preliminary resident program, students are given opportunity for basic education and acquire the comprehensive knowledge of the orthopaedic surgery and traumatology in the associated hospital. In concretely terms, students mainly take traumatology training as a basis for clinical medicine for 2 years. Training also includes anesthesiology, emergency medicine, rehabilitation, and neurology. Subsequently, students will take training of joint surgery and neurosurgery in the specialized hospital at least 2 years. After basic training of 6 years, students are required to be orthopaedic specialists which was certificated by Japan orthopaedic association. As for an admission to a graduate school, students will be allowed depending on the personal desire and individual achievements after 4 years’ education.

We also accept extramural and international students, doctors, and veterinarians who interested in the research at our graduate school.

3. Research Subjects

Following studies have been extensively carried out in our laboratory with various biological and molecular biological techniques:

- Establishment of separation and proliferation of mesenchymal stem cells
- Elucidation of biological properties of mesenchymal stem cells
- Development of treatment of joint cartilage injury using mesenchymal stem cells
- Mechanism and treatment of joint pain
- Development of knee and hip arthroplasty which accommodates Japanese
- Promotion of anatomical knee anterior cruciate ligament reconstruction

4. Clinical Services

- Promotion of treatment about diseases of lower extremity from children to elderly people
- Development of program for early social recovery after total hip and knee arthroplasty patients
- Development and education of treatment which accommodates sports fields
- Regenerative medicine for cartilage disease

5. Publications

Original articles


