Oral Radiation Oncology

1. Staffs and Students (April 2009)

Professor: Masahiko MIURA
Tokunin Assistant Professor: Shigehiro ABE, Yoko MORI
Graduate Students (Doctor): Mayuko ISHIKAWA, Atsushi KAIDA,
(Master): Kazuma FUKUDA
Special Research Student: Motoshi NAKAYAMA, Kazunori TAKADA
Research Associate: Keisuke OHTA, Masahiro ISHIMA

2. Purpose of Education

Oral Radiation Oncology is a branch of radiation oncology dealing with basic radiobiology, translational research, and radiotherapy for oral cancer. Main objective of this branch in the graduate course is to provide opportunities to study biological strategies for radiosensitization, development of radiosensitizers, molecular mechanism of tumor radioresistance, the state of the art technology of radiotherapy, and basis of individualized radiotherapy depending on each student’s research projects.

3. Research Subjects

1) Signal transduction of insulin-like growth factor I (IGF-I) receptor
2) Tumor radiosensitization and antiangiogenic mechanism by sulfoglycolipids
3) Visualization of radioreponse by molecular imaging
4) Radiotherapy for oral cancer

4. Clinical Services

Oral Radiation Oncology clinic provides radiotherapeutic treatment for head and neck cancer patients, especially brachytherapy for oral cancer, in cooperation with Diagnostic and Therapeutic Radiology clinic in the Medical Hospital.

5. Publications

Original article