Oral Radiation Oncology

1. Staffs and Students (April 2010)
   Professor: Masahiko MIURA
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   Graduate Students (Doctor): Atsushi KAIDA, Sara AHRABI
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   Research Associate: Keisuke OHTA, Masahiro ISHIMA
   Special Research Student: Motoshi NAKAYAMA, Kazunori TAKADA
   International Resercher: Nguyen Duy SINH

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