DEPARTMENT OF RADIATION ONCOLOGY

31 PHYSICIANS 2015
17 MEDICAL PHYSICISTS AND COMPUTER SCIENTISTS 2015
7 BIOLOGISTS 2015
93 NURSES AND OTHER EMPLOYEES 2015

50,189 OUTPATIENT VISITS 2015
1,174 INPATIENT CASES 2015
2,733 PATIENTS GIVEN RADIATION TREATMENT 2015
1,267,902 EUROS IN THIRD-PARTY FUNDING IN 2015, INCLUDING 373,593 EUROS IN PUBLIC FUNDING AND 489,000 EUROS OF DKTK FUNDING FOR VARIOUS PROJECTS

45 PUBLICATIONS 2015
25 STUDIES AND RESEARCH PROJECTS 2015

DEPARTMENTAL IMPACT FACTOR (LOM): 114.7
AWARDS

Prof. Dr. Gabriele Niedermann
Best of ESTRO 2015
The European Society for Radiotherapy and Oncology (ESTRO) rated the article “The extent of synergy between tumor gamma irradiation and checkpoint-blocking or T cell-recruiting antibodies” by M. Hettich, J. Lahoti, and G. Niedermann as highest scoring abstract in the field of radiation biology in April 2015.

Best of ASTRO 2015
The American Society for Radiation Oncology (ASTRO) rated the presentation “Dissecting the interaction between tumor gamma-irradiation and checkpoint-blocking or T cell-recruiting antibodies” by M. Hettich, J. Lahoti, and G. Niedermann as Best of ASTRO Selected Presentation in September 2015.

Dr. Hua Jing
1st Prize at the 15th Meeting of the Interdisciplinary Network for Molecular Imaging
The article “Imaging and selective elimination of glioblastoma stem cells with theranostic near-infrared-labeled CD133-specific antibodies” received first prize at the 15th Meeting of the Interdisciplinary Network for Molecular Imaging, held from 14 to 16 October 2015 in Freiburg. In cooperation with German professional organizations, the network fosters scientific exchange between medical radiology departments and their respective national organizations:

- German Society for Medical Physics (DGMP)
- German Society for Nuclear Medicine (DGN)
- German Society for Radiation Oncology (DEGRO)
- German Society for Biomedical Technology (DGBMT/VDE)
- German Radiation Society (DRG)

HIGHLIGHTS IN MEDICAL CARE AND RESEARCH

STEREOTACTIC RADIATION THERAPY/ RADIOSURGERY AND IMMUNOTHERAPY

Stereotactic radiation therapy/radiosurgery is a high-precision radiation therapy that treats the tumor with a very high dose in very few fractions while inflicting the least possible damage to the surrounding tissue. The Department of Radiation Oncology uses devices developed especially for stereotactic radiation, such as the Varian TrueBeamSTX Novalis Radiosurgery and the tomotherapy device Accuray Tomo. It is in charge of several national and international (EORTC) studies on stereotactic radiation therapy in the head and body area. Four of these studies were funded by the organization German Cancer Aid. The findings demonstrate that a combination of stereotaxy and a special immunotherapy allows the radiation therapy to work like a vaccination, greatly enhancing the destruction of the tumor at the irradiated points and at other points in the body by activating the immune system. The projects are being conducted with the German Cancer Consortium (DKTK), Comprehensive Cancer Center Freiburg – CCCF, and the Edwin L. Steele Laboratory for Tumor Biology at Harvard Medical School, Massachusetts General Hospital (Group leader: Prof. Dan G. Duda). The research work in the Freiburg radiation biology laboratory was awarded with the distinctions “Best of ESTRO 2015” by the European Society for Radiotherapy and Oncology and “Best of ASTRO 2015” by the American Society for Radiation Oncology.

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