

The Hakubi Project [Tenure-track Type]

Detailed conditions of available posts publicized in LEADER	
Post No.	A5206
Department	Institute for Integrated Radiation and Nuclear Science
URL	N/A
Number of positions	1
Starting date	October 1st,2019
Type of researchers to seek	<p>The institute which our laboratory belongs to has a research reactor. In using neutron beams from the reactor, clinical and basic studies on boron neutron capture therapy (BNCT) have been carried out in our institute. We have investigated the basic studies related to BNCT. BNCT is based on the following nuclear reaction. Nonradioactive isotope ^{10}B atoms that absorb low-energy (<0.5 eV) neutrons (thermal neutrons) disintegrate into an alpha (^4He) particle and a recoiled lithium nucleus (^7Li). These particles deposit high energy along their very short path (<10 μm). Thus, only malignant cells with ^{10}B are destroyed following thermal neutron irradiation. Theoretically, any normal cells abutting the cancer cells are spared from high linear energy transfer irradiation by ^4He and ^7Li particles.</p> <p>The key to success in BNCT is to selectively deliver ^{10}B-containing compound (boron compound) to tumor. We have paid attention to the effect of inhomogeneous microenvironment in tumor, such as oxygenated state or cell cycle distribution on accumulation the boron compounds in tumor. We have also investigated the augmentation of the accumulation of boron compounds by modifications of the microenvironment such as drug-treatment changing hypoxic component in the tumor or hyperthermia treatment.</p> <p>Since, in Japan, only two institutes including ours are available for neutron beams applicable for BNCT basic studies, many issues in the BNCT field are left unsettled. In addition, irradiation with two heavy particles along their very short path (<10 μm) is a unique tool from a viewpoint of radiation biology. We seek a young candidate who will enthusiastically engage in the unsettled issues as a principal investigator.</p> <p>[Future career path]</p> <p>The tenure interim evaluation is conducted in the third year after hiring. The tenure review is conducted by the final year of the tenure track period to determine whether a tenure candidate should be granted the status of tenured associate professor.</p>
Research field	Medicine dentistry and pharmacy
Key words	radiation therapy, radiation oncology
Job type	Program-Specific Associate Professor
Employment Status	tenure-tracking employment
Work Location	2, Asashiro-Nishi, Kumatori-cho, Sennan-gun, Osaka 590-0494
Advance notice/entry	Necessary
Advance notice deadline	May 10, 2019
Method of advance notice	Please e-mail Administration office, Institute for Integrated Radiation and Nuclear Science that you would like to apply for our post. The application forms are the same as the forms for Leading Initiative for Excellent Young Researchers in FY 2019.

Compensation, Research environment	<p>【Salary】Commensurate with experience and skills, in accordance with the salary regulation of the University</p> <p>【Employment Conditions】</p> <p>1. Discretionary labor system: Working hours are at the discretion of the worker with the standard working hours from 8:30 (starting time) to 17:15 (ending time).</p> <p>2. Holidays are Saturday, Sunday, National Holidays and any other days set by the University.</p> <p>【Term】The period of service will be five years in principle.</p> <p>【Social Insurance】Enrollment in the MEXT's mutual aid association, employees' pension, employment insurance, and employee compensation insurance</p> <p>【Tenure Interim Evaluation and Tenure Review】The tenure interim evaluation is conducted in the third year after hiring. The tenure review is conducted by the final year of the tenure track period to determine whether a tenure candidate should be granted the status of tenured associate professor.</p> <p>【Others】Research facilities will be arranged by and in Institute for Integrated Radiation and Nuclear Science.</p>
Process,schedule	<p>Late May 2019: Selection Based on Documents</p> <p>June 2019 : Selection Based on Interview (as necessary)</p> <p>July 2019 : Selection committee meeting</p> <p>August 2019 : Notification of the Selection Result</p>
Contact address	<p>Administration office, Institute for Integrated Radiation and Nuclear Science, Kyoto University</p> <p>072-451-2310</p> <p>soumu2*rri.kyoto-u.ac.jp (Please replace "*" with "@")</p>
Additional Information	