

## CENTER FOR RADIOISOTOPE FACILITIES



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The technical and supporting staff of the Center for Radioisotope Facilities (CRF) maintain controlled areas in compliance with the law. The CRF is responsible for monitoring the purchase of radioisotopes from the Japan Radioisotope Association (JRIA) and the transfer of radioisotope wastes to JRIA.

Ms. Matsuda, Ms. Inuma, Ms. Ito, and Ms. Kamiya maintained the Myodaiji-Area. Ms. Sawada worked in the Yamate-Area. Dr. Kodama worked in both areas.

The following are CRF's notable activities in 2014.

- The Common Facilities building I was repaired, therefore the radiation controlled area of the Myodaiji-Area was closed from April 2013 and re-opened on July 14th 2014. (Figure 1A, 1B, 1C)
- Along with the re-opening of the Myodaiji-Area, the following areas were closed.
  - 2-1 The radioisotope handling rooms at the NIPS building for animal experiments and gene-recombination experiments using radioisotopes.
  - 2-2 The second radioactive waste storage room at the NIBB building.

The number of registrants and the number of users from January 2014 to December 2014 are shown in Table 1.

Users and visitors counted by the access control system of the controlled areas numbered 4,320 during this period. The radioisotope handling rooms' users and visitors counted by

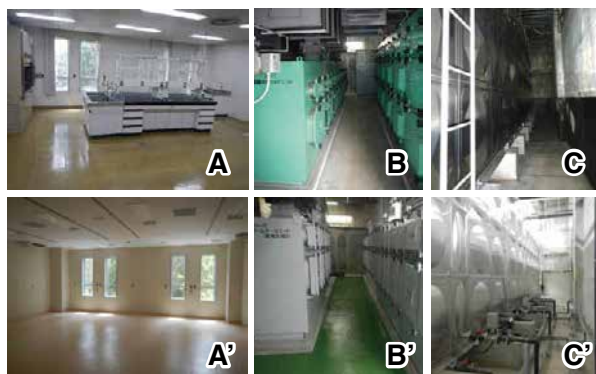


Figure 1. The CRF's notable activities in 2014. The Myodaiji-area was repaired.

A, A': The radioisotope laboratory (A: before, A': after)

B, B': The exhaust facility (B: before, B': after)

C, C': The drainage facility (C: before, C': after)

record sheet numbered 557. The numbers for each area are shown in Table 2. The annual changes of registrants and the number of totals per fiscal year are shown in Figure 2. The balance of radioisotopes received and used at the CRF is shown in Table 3. The training courses on radioisotope handling were given as in Table 4.

	Myodaiji-Area	Yamate-Area
registrants	69	87
users	21	41

Table 1. Numbers of registrants and users at Myodaiji-Area and Yamate-Area in 2014.

	controlled area			radioisotope handling room
	Myodaiji-Area	Yamate-Area	total	
users	754	748	1502	541
visitors	2651	167	2818	16
total	3405	915	4320	557

Table 2. Users and visitors who entered each controlled area and radioisotope handling room in 2014.

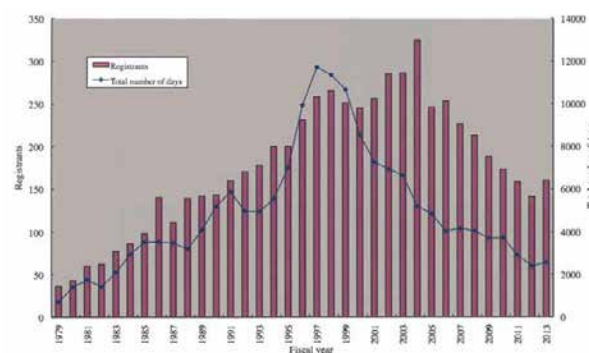


Figure 2. Annual changes in number of registrants and total number of days per fiscal year.

	Myodaiji-Area	Yamate-Area		total
		controlled area	radioisotope handling room	
<sup>125</sup> I Received	0	0	—	0
<sup>125</sup> I Used	0	55	—	55
<sup>125</sup> S Received	74000	1850000	—	1924000
<sup>125</sup> S Used	4218	1536915	—	1541133
<sup>32</sup> P Received	38500	56250	—	94750
<sup>32</sup> P Used	31775	49960	—	81735
<sup>14</sup> C Received	174927	0	—	174927
<sup>14</sup> C Used	13277	0	1480	14757
<sup>3</sup> H Received	544049	1859250	—	2403299
<sup>3</sup> H Used	42353	2778811	8800	2829964

Table 3. Balance of radioisotopes received and used (kBq) at each controlled area and radioisotope handling room in 2014.

training courses	place	numbers of participant
introductory course for beginners*	Myodaiji	1
introductory course for beginners*	Yamate	3
introductory course for experts	Myodaiji	4
introductory course for experts	Yamate	6
Users training course*	Myodaiji	53
Users training course	Yamate	69

\*including English courses

Table 4. Training courses for radiation workers in 2014.