



Japan
Radioisotope
Association



About us

The Japan Radioisotope Association was established in 1951 when radioisotopes were first imported to Japan, thanks to the untiring efforts of the late Dr.Y.Nishina, with a view to ensuring safe and secure operation and improving technical competence, and disseminating this knowledge to researchers throughout Japan. In 1959, the Association, which was organized by researchers, also established a collection service for radioisotope waste. Since then, we have been ensuring the safety and well-being of society by conducting investigations and research on radioisotopes and radiation, and maintaining an integrated system from the supply of radioisotopes through to their disposal.

Currently, radioisotopes and radiation play an important role in a variety of fields, helping save lives and improving our quality of life. In the medical field, radioisotopes facilitate accurate diagnoses and radiation is used for cancer treatment. In the industrial field, radioisotopes are used in the quality control of a range of materials, allowing gauging the thickness of various materials such as iron or paper to be carried out promptly and accurately. They are also used in safety testing and measurement applications, such as determination of the amount of water in soil or finding cracks in power plants by means of non-destructive testing. Furthermore, in the research field, radioisotopes are used as chemical reagents and tracers for basic research in educational organizations and research institutions.

The Japan Radioisotope Association is determined to continue disseminating the technologies associated with radioisotope and radiation use and promoting their safe handling, based on a firm commitment to benefit the users of this technology and society as a whole.

Japan Radioisotope Association
Kawasaki Technical Development Center

Providing greater comfort and a better quality of life

We, the Japan Radioisotope Association, strive to disseminate knowledge and technology, promote the utilization of radioisotopes and ensure their safe use throughout Japan, and have established an integrated system from the supply of radioisotopes through to their disposal, in compliance with all relevant laws and regulations. We share domestic and overseas information on radioisotopes, take responsibility for the whole process of radioisotope distribution from supply through to collection, and ensure that all this is carried out safely and provides all users with confidence.

We aim to promote the beneficial use of radioisotopes and contribute to the development of science and technology, as well as helping to create a better quality of life.

Dissemination/education

We disseminate knowledge and technology associated with radioisotopes and provide the information necessary to ensure their safe handling.

We conduct committee-based activities and hold research meetings and workshops, as well as editing and issuing publications.

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Japan Radioisotope Association

Supply

We supply sealed sources, radio-nuclides, labeled compounds and radiopharmaceuticals to users throughout Japan.

We also manufacture a wide range of sources, including those used for calibration purposes, in response to specific requests.

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Waste management

We take back disused sealed sources, and collect the radio-isotope waste generated by radioisotope users throughout Japan, then treat and store the waste in a safe manner.

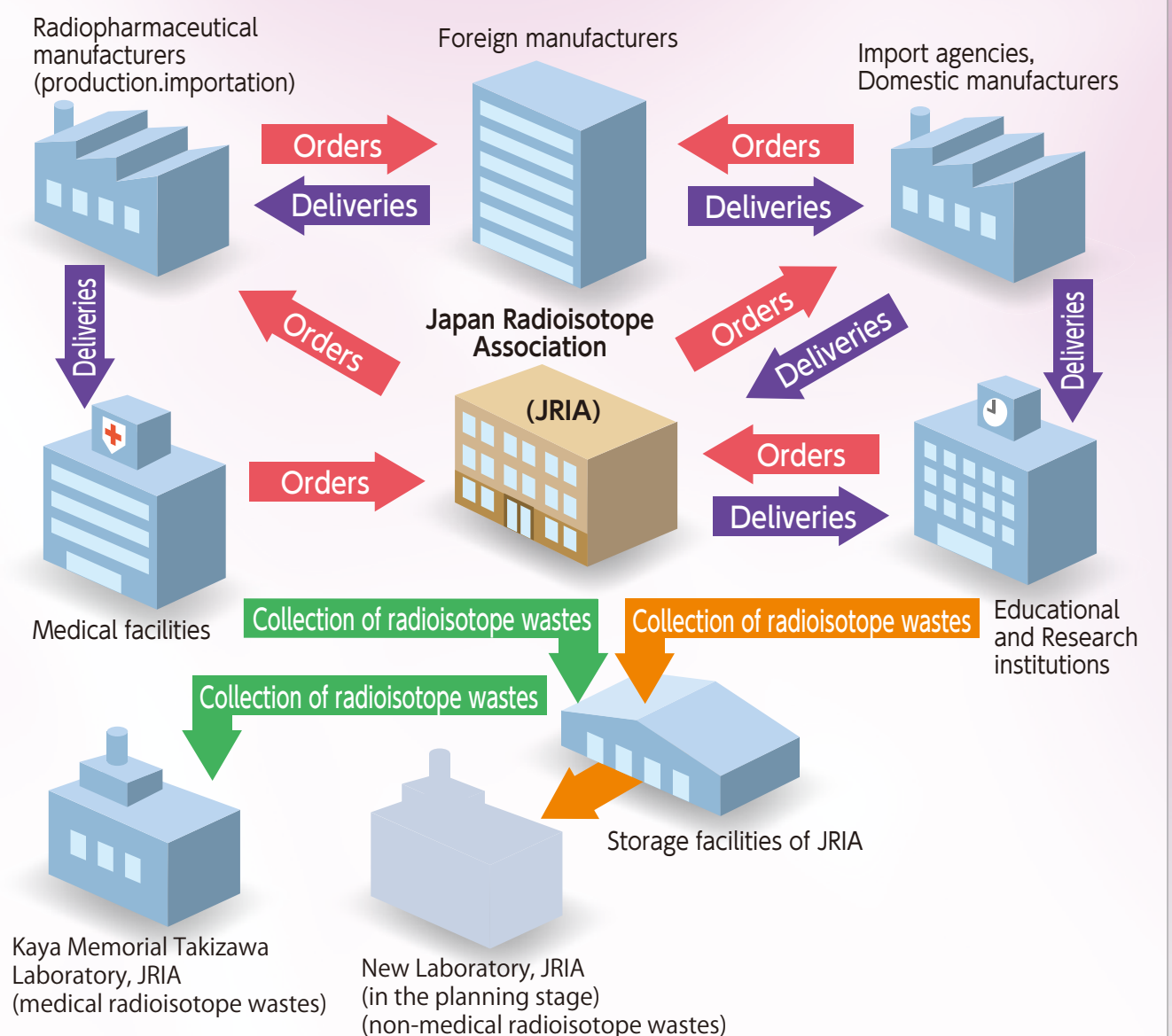
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The Japan Radioisotope Association (JRIA) is a public non-profit organization, operated by the JRIA's members in accordance with the following aims and objectives :

1. To promote the utilization of radioisotopes and to ensure their safety
2. To supply radiopharmaceuticals and labeled compounds, and to produce and supply sealed sources for medical, research and industrial purposes
3. To manage radioisotope waste and disused sealed sources

The Japanese system of radioisotope use and the JRIA's role

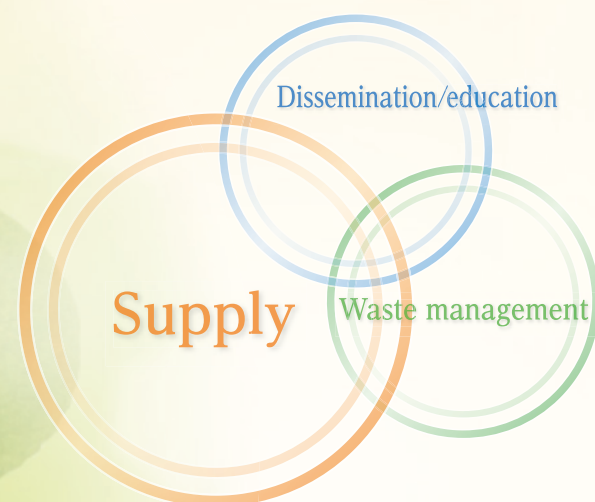
The JRIA maintains an integrated system, from the supply of radioisotope products through to the management of wastes, in order to ensure the safe use of radioisotopes and radioactive sources throughout Japan.



Supply

Radioisotopes support our way of life. However, because they emit radiation and because each radioisotope's nucleus decays over time, their supply needs to be continuous and stable, in keeping with demand. The Japan Radioisotope Association (JRIA) imports, manufactures, and transports radioisotopes in a safe and secure manner, making use of the advanced expertise and technologies derived from its accumulated experience in handling radioisotopes, since its establishment. Furthermore, we share information with relevant organizations, manufacturers and users, both at home and abroad, in order to ensure a stable supply of radioisotopes.

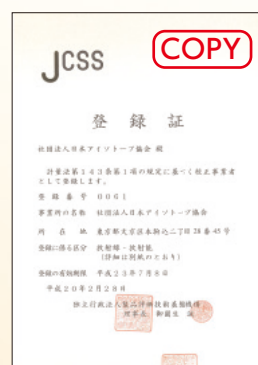
The JRIA has acquired ISO 9001 : 2015 quality management system certification for the *Sale of Radiopharmaceuticals and Radioisotope Products as well as Manufacture of Radioactive Sources for Non-destructive Testing, Standard Sources and Standard Solutions.*



JCSS calibration

In its role as a Japan Calibration Service System (JCSS)-accredited calibration laboratory, the JRIA provides the measurement standards for dosimetry and activity based on the Measurement Law. (The JCSS is a traceability system established within the framework of the Measurement Law.)

Standard sources, calibrated by means of the JRIA's long experience and expertise in the field of radiation measurement, are used to support radiation measurement and radionuclide metrology at facilities using radioisotopes throughout Japan.



Radiopharmaceuticals

We ensure a stable supply of radiopharmaceuticals throughout Japan, in collaboration with the relevant academic societies and manufacturers.

We promote the use of radiopharmaceuticals by the operation of the Internet ordering system called RIOS (Radiopharmaceuticals Information and Ordering System), and provide information on radiopharmaceuticals.



Radionuclides/labeled compounds

We supply radionuclides and labeled compounds procured from domestic or international suppliers and check their stability at our facilities.

We work with the Internet environment to help users conveniently place orders through the Internet ordering system.



Radioactive sources

We import radioactive sources from overseas for various applications such as radiation therapy, irradiation sterilization, non-destructive testing and the calibration of radiation detectors, or manufacture them ourselves and distribute them nationwide. These radioactive sources are only shipped after thorough quality inspections have been performed to ensure that they are safe to use.

The quality inspection process for sealed sources includes checking items such as appearance, radiation output, integrity, and serial numbers.



Dissemination/education

We have formed committees consisting of researchers and technologists to promote the utilization of radioisotopes, and to ensure safe handling by users. We organize field trips, hold workshops and conduct research meetings to help improve and disseminate the use of radioisotopes and educate users. Furthermore, we edit and publish two official journals as well as treatises, introductory books and DVDs for educational and training use.

We conduct training programs to assist in the acquisition of qualifications, such as that of Radiation Protection Supervisor, as well as workshops on safe handling for both professionals and beginners.

We provide users with comprehensive technical support, offering a consultation service on the handling of radioisotopes, radiation measurement, and related matters.



Website

Information on workshops, training programs and annual meetings is available through the JRIA's websites. This information also provides links to the relevant academic societies, associations and government departments which deal with and update laws and regulations.



Committees

We have three standing Committees (the Committee of Engineering and Life Sciences, the Medical Science and Pharmaceutical Committee, and the Radiation Safety Management Committee) which help promote the utilization of radioisotopes, prevent radiation hazards, raise public awareness, and exchange information among the JRIA's members.



Committee

Research and other meetings

We hold the Annual Meeting on Radioisotope and Radiation Research — an opportunity to present research findings — as well as lectures, field trips and training programs.



Research meeting

Workshops

We offer workshops such as the certified regulatory courses for Radiation Protection Supervisors. We also hold education/training programs and general courses on the handling and transport of radioisotopes.



Lecture



Practice

Publications

We publish two official journals, *Isotope News* (for the JRIA's members) and *RADIOISOTOPES* (for researchers). We also edit books on radioisotopes and radiation for beginners and experts, statute books, and practical books on radiation safety management. Japanese versions of the International Commission on Radiological Protection (ICRP) publications are also published, along with DVDs for educational and training use.

In cooperation with related academic societies and associations, we also prepare and distribute brochures to promote the utilization of radioisotopes and raise public awareness.



Publications and DVDs

Waste management

We take back disused sealed sources and collect the radioisotope waste, such as contaminated materials from laboratories and hospitals. We store them safely in our own facilities. We retain and utilize our recording data on supply sources to enhance safety and security.



Take back service for disused sealed sources

We take back disused sealed sources at the request of users. After inspection and checking of the nuclide data, the radioactivity, the serial numbers of the sources, and any surface contamination, the sealed sources that have been collected are then placed in storage. Imported sealed sources are returned to the manufacturers.

Collection service for radioisotope waste

We have a nationwide program to go around and collect radioisotope waste. All collected radioisotope waste is treated in accordance with its properties and is stored safely until delivery to the disposal operator.

We collect not only the waste derived from the use of radioisotopes but also the waste produced by radiation generators.



Collection service for radioisotope waste



Storage of radioisotope waste

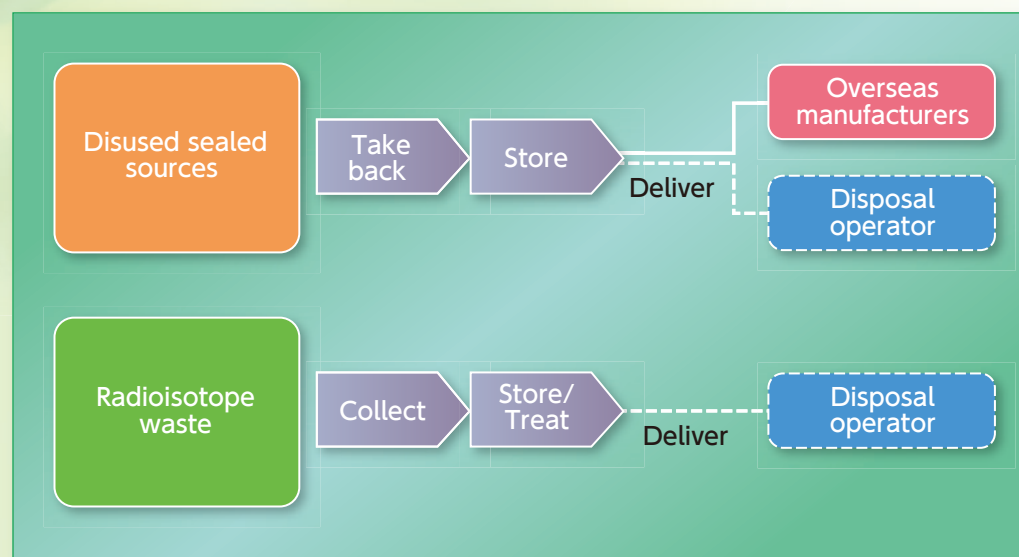
Kaya Memorial Takizawa Laboratory

Kaya Memorial Takizawa Laboratory is the waste management facility for radioisotope waste generated by medical institutions throughout Japan. We have a safe and efficient treatment facility. The treated waste is packaged in special waste containers and stored under controlled conditions.

In order to ensure environmental safety, an environmental radiation-monitoring system and thermoluminescence dosimeters are installed to monitor environmental radiation.

We are managing this waste in a safe and appropriate manner.

Flow



Kaya Memorial Takizawa Laboratory



Incinerators used for radioisotope waste



Japan Radioisotope Association

<https://www.jrias.or.jp/>