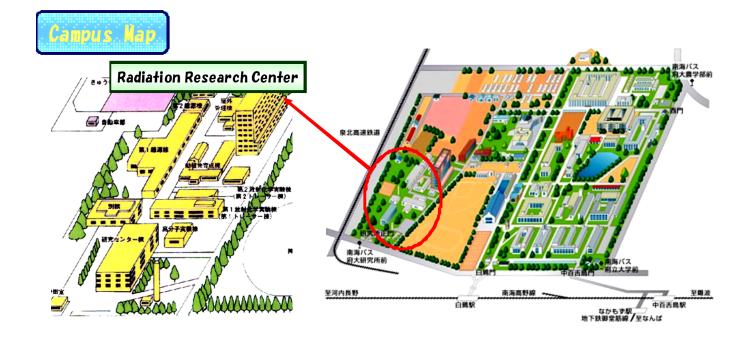
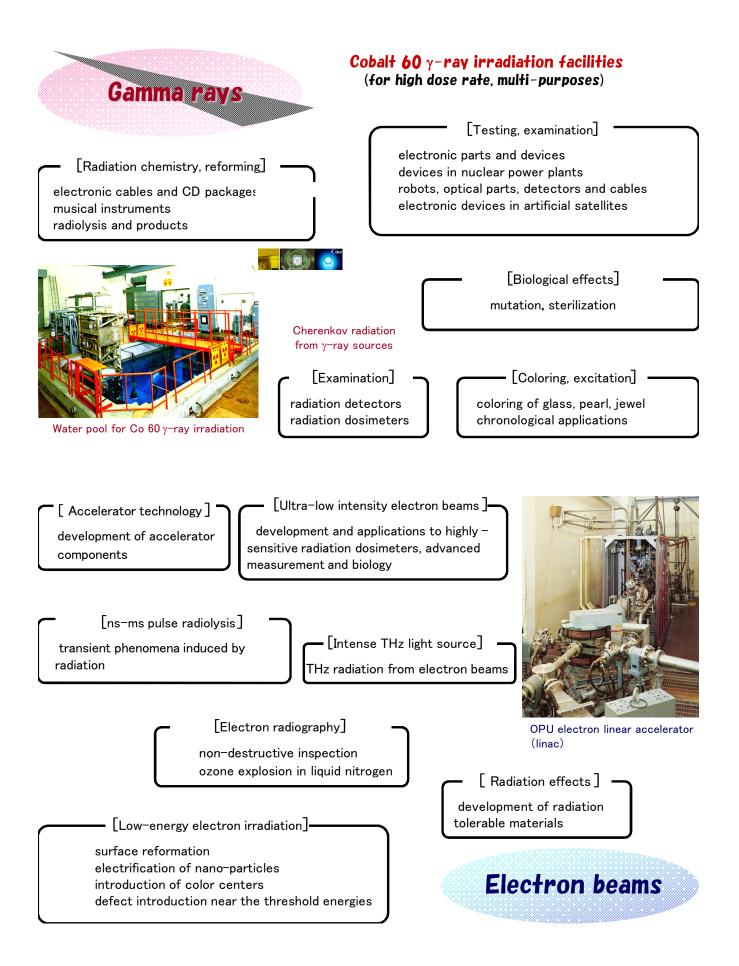
Radiation Research Center Research Organization for University -Community Collaborations Osaka Prefecture University

Radiation Research Center of Osaka Prefecture University has large-scale radiation facilities such as cobolt-60 γ -ray sources, a 16 MeV electron linear accelerator, and laboratories for handling radioisotopes. This center has a long history and is one of the largest radiation research center in Japanese universities. Those are open for many users in universities and industries.

History

- 1959 Radiation Center of Osaka Prefecture (RCOP)
- **1962** Installation of RCOP electron linear accelerator
- 1990 Research Institute of Osaka Prefecture Univ. (OPU)
- 1995 Research Institute for Advanced Science and Technology
- 2005 Radiation Research Center of Organization of U-I-G Cooperation
- 2011 Radiation Research Center in Research Organization for University-Community Collaborations





Radioisotopes

- [Radiation measurement] -

elementary analysis age dating examination of radiation detectors

____ [Radiation chemistry] _ chemical reactions and the behavior of radioisotopes



[Radiation safety management] environmental monitoring radiation protection

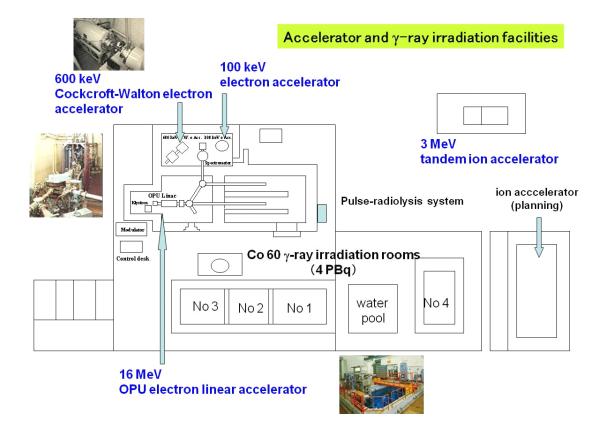
[Tracer experiments] labeled compounds autoradiography metabolic research

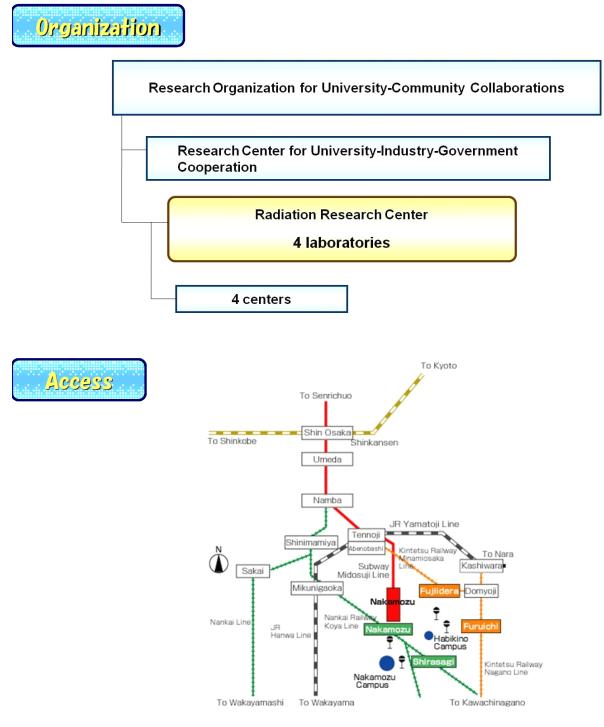
____ [Positrons]

radiation damage in materials methods for analysis

Radiation facilities and accelerators Radiation sourcesCo 60 γ-ray sources (4 × 1015 Bq, 105 Ci)
4 irradiation rooms and a water poolElectron accelerators16 MeV electron linear accelerator (OPU linac)
600 keV Cockcroft-Walton electron accelerator
100 keV electron acceleratorIon accelerator3 MeV tandem ion acceleratorRadioisotope handling facilities

Devices for analyses and measurements





Radiation Research Center

Research Organization for University-Community Collaborations Osaka Prefecture University

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