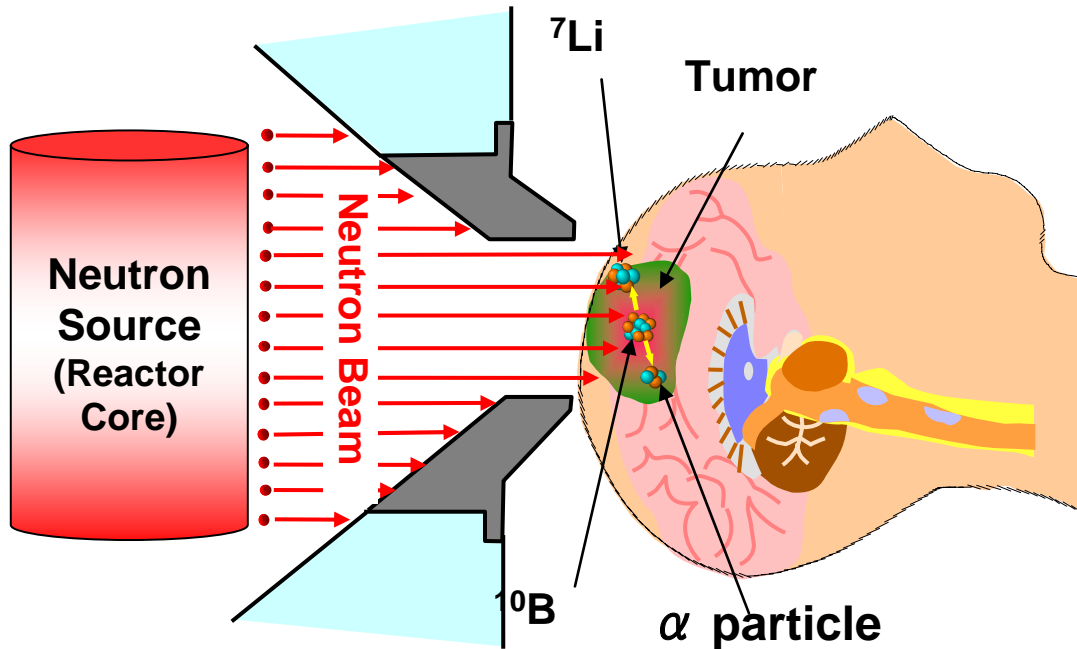


What is the Boron Neutron Capture Therapy (BNCT) ?



BNCT Essentials

1. ^{10}B chemical compound which accumulates in the cancer cell is injected to a patient.
2. The neutron beam is irradiated to the lesion.
3. The cancer cells are selectively destroyed using alpha particle and ^7Li particle which are generated by the $^{10}\text{B}(n, \alpha)^7\text{Li}$ reaction.

Features

- It is possible to kill cancer cells selectively and to treat the cancer by a cell-by-cell basis.
- The treatment finishes in the irradiation in one to several times.
- QOL after the treatment is high quality.

Application of BNCT

Malignant brain tumor, malignant melanoma (skin cancer), head and neck cancer, lung cancer, liver cancer, etc..