Boron neutron capture therapy is based on a nuclear reaction between the nonradioactive isotope boron-10 and either low-energy thermal neutrons or high-energy epithermal neutrons, which generate high linear energy transfer  $\alpha$  particles and a recoiled lithium nucleus (7 Li) that selectively destroys the DNA helix in tumor cells.

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Last update: 2024/06/07 02:58