Friday Mar. 10th At 10:00am



Current Status of Medical Alpha Emitter Production in Japan

Abstract:

The environment surrounding to targeted radionuclide therapy (TRT) in Japan has been dramatically changed during a decade. The clinical result of ²²³Ra which shows prolongation of overall survival of metastatic HRPC cancer patients compared to placebo, changed nuclear physician's mind in Japan. By now, many physician want to use therapeutic potential radionuclides and scientists initiated the production of alpha and beta emitting radionuclides. However, to proceed the stud of TRT in Japan, the most important thing to solve is the availability of radionuclides, especially of alpha emitters. Due to the lack of longer half-lives parent nuclides such as ²³³U, ²²⁹Th, ²²⁷Ac to generate novel alpha emitters, ²¹¹At. Fortunately, there exist several cyclotrons that can accelerate 30 MeV of 4He particle to produce ²¹¹At using ²⁰⁹Bi(4He, 2n)²¹¹At nuclear reaction. Here, in this seminar, I would like to talk about the current status of medical alpha emitter production in Japan and how Japanese physician and scientists involved in this area are working toward the realization of TRT.



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Refreshments will be served at 9:45am