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Electromagnetic isotope separation is an essential technology for the production of radionuclides with high radionuclidic purity, also those that are the “fuel” for nuclear medicine applications. Radionuclides for imaging and therapy are produced by charged particle induced reactions at accelerators or by neutron induced reactions in nuclear reactors. Yet, both methods require as prior step the preparation of a suitable target that often has to be isotopically enriched. I will discuss present needs and methods for isotope enrichment and possible synergies with new techniques that had initially been developed for nuclear physics experiments.

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