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## **Theranostics: new methods for radionuclide therapy and diagnostics**

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The report “Theranostics: new methods for radionuclide therapy and diagnostics” will give knowledge about the important role of novel radionuclides for diagnostics (Positron Emission Tomography and Single Photon Emission Computed Tomography) and therapy (radio-immuno-therapy). Merging imaging and therapy to Theranostics (a neologism from therapy based on diagnostics) for diagnose and treat chronic illnesses such as cancer, will give us the excellent results with minimum side effects. The patient will receive first a cancer-selective diagnostic radionuclide and then therapy with this radionuclide will be adapted accordingly. Thus optimum treatment efficacy can be achieved in this type of personalized medicine.

The report includes: the basics of radionuclide therapy and diagnostics, new methods for radionuclide therapy and diagnostics, our studies of the nuclear reactions for development of novel radionuclides used in these methods.

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