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Sommario/riassunto	Theranostic radiopharmaceuticals have shown tremendous capabilities in the last decade in the treatment and diagnosis of human diseases via nuclear medicine procedures. In particular, the use of radiometals has experienced a great increase as a result of the development of relevant production technologies. This publication presents the outcome of an IAEA coordinated research project (CRP) focusing on the production, quality control and radiopharmaceutical aspects of three key radionuclides, 67CU, 186Re and 47Sc, which have been selected based on their theranostic potential and their dual production routes. The publication was compiled using inputs from experts in the field as well as presenting the overall results of the CRP. It contains separate sections for each radionuclide including: nuclear data and information on targetry, irradiation, chemical separation, quality control as well as sample radiopharmaceutical production. The findings and considerations will be of use to scientists and technologists interested in translating research reactor and cyclotron based radioisotope production into practice, as well as to post graduate students in the field.