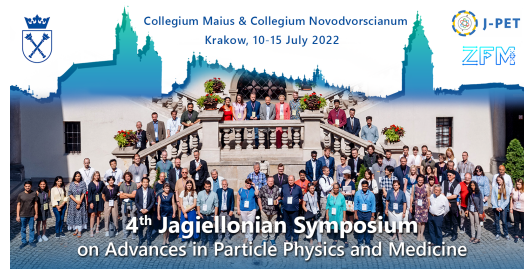


4th Jagiellonian Symposium on Advances in Particle Physics and Medicine



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Invited talk: Perspectives of preclinical research in Bialystok Center of Molecular Imaging

Friday, 15 July 2022 11:25 (20 minutes)

Bialystok Center of Molecular Imaging (BCMI) is one of the key elements of the new project of the Innovative Research Center for the Prevention of Civilization Diseases and Individualized Medicine (CBI PLUS), that is now proceeding by the Medical University of Bialystok (MUB). This will be the first laboratory for the synthesis and quality control of radiopharmaceuticals in the region and the first PET/MR preclinical research center in Poland. The main goal of BCMI is to develop new radiopharmaceuticals for the early diagnosis and treatment of civilization diseases. This will be supported by the preclinical and clinical research with the innovative molecular imaging technique application. The BCMI labs will follow the GMP and GLP procedures. At the moment, the construction of the BCMI is underway. The GMP documentation has already been prepared and the purchase of the hot cell, synthesis unit, $^{68}\text{Ge}/^{68}\text{Ga}$ generator and quality control system is ongoing. In the preclinical research labs the PET/MR and SPECT/CT scanners for small animals will be installed. The configuration of systems will allow for a whole body scan, brain, heart, lung and abdominal imaging in preclinical research in the field of oncology, neurology, cardiology and metabolic diseases. The animal scanners will be a part of the unique imaging system that is already used in the MUB (i.a. human PET/MR hybrid system), thus providing the translational research. BCMI will increase opportunities for collaboration and conducting multicentre research as well as international projects. The entire BCMI installation should be completed in mid-2023.

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