



TERAPET

Next Generation Imaging Technology

Terapet SA together with their Korean partners Yonsei Cancer Center (Heavy Ion Therapy Center) and Oncosoft Inc. are awarded CHF 1'835'000 and KRW 1'500'000'000, respectively, through a bilateral innovation project funded by Swiss Innovation Agency (Innosuisse) and the Korea Institute for Advancement of Technology (KIAT).

Seoul, Korea October 13th, 2023 Terapet SA, a Geneva-based CERN spin-off developing an innovative platform technology for imaging in nuclear medicine, today proudly announced the successful awarding of a total of about CHF 3'000'000 in non-dilutive funds. The combined funding supports the development of a novel patient-specific quality assurance device for Heavy Ion Therapy (HIT) to be installed at Yonsei Cancer Center, the location of the first carbon ion therapy center in South Korea.

A Collaboration Agreement Signing ceremony will be held at this year's [FARO-KOSRO 2023](#) congress, in Seoul, Korea. FARO-KOSRO is the largest radiation oncology congress in the Asia-Pacific region.

The collaboration will officially start on 01.11.2023 and will run for the coming 3 years. All the partners in the consortium are fully funded.

About carbon ion therapy

Carbon ion therapy is an advanced treatment method for cancer and other tumor diseases. Compared to conventional x-ray radiotherapy, ion therapy has the advantage that healthy tissue surrounding the tumor receives less dose. This is because ions stop at a certain depth inside the patient, delivering a very high dose just before they stop (the Bragg peak). The dose beyond the tumor is close to zero. The lowered dose to healthy tissue is particularly important when treating children since they have a long life expectancy after treatment. Ion therapy is also superior for treating critical cancer types (e.g., brain tumors, prostate cancers) in which tumors are very close to critical organs, e.g., the brain, spine, optic nerves, etc.

About the Innosuisse-KIAT Consortium (109.136 INT-LS)

[The bilateral Innosuisse-KIAT funding program](#) aims to promote bilateral innovation projects between Switzerland and South Korea. Innosuisse has been cooperating with the South Korean innovation agency since 2013 with the aim of promoting bilateral innovation projects. Innosuisse and the Korea Institute for Advancement of Technology (KIAT) work together within the framework of the cooperation agreement signed in 2022.

The objective of this agreement is to encourage collaboration between Swiss and South Korean companies and research organizations to promote the exchange of knowledge and expertise, to establish sustainable partnerships and to increase business development opportunities. This enables companies to expand their competitive advantage by developing new products, improving technical processes or devising solutions. These innovations must offer added value for the economy, society or the environment.

[Innosuisse](#) is the Swiss Innovation Promotion Agency. It is a federal entity whose role is to promote science-based innovation in the interests of industry and society in Switzerland.

[KIAT](#) is the Korea Institute for Advancement of Technology. KIAT is quasi non-governmental organization under Ministry of Trade, Industry and Energy, with a mission to realize a technologically leading nation through related industrial technology policy and infrastructure strengthening and to promote academic-industrial collaboration, local industry promotion, middle-standing enterprises support, technology commercialization, research foundation building, material components industry support, and international technical cooperation.

About [Terapet SA](#)

Terapet, a CERN MedTech spin-off, has developed an innovative platform technology: a novel gamma ray detection system for imaging in nuclear medicine. Terapet develops, manufactures and sells medical devices for nuclear imaging. Their products will be used in hospitals, research centers, ion therapy facilities and the pharmaceutical industry.

About [Yonsei Cancer Center \(Heavy Ion Therapy Center\)](#)

Yonsei Cancer Center is the lead Korean partner in the collaboration. Yonsei Cancer Center has excellent medical facilities, ranking 4th in Korea in the world hospital evaluation, and its affiliated medical school is ranked 1st in Korea and Asia, building a top-level research environment. The hospital has a suitable research base, having won 1,236 contracts for national research projects worth 125.8 billion KRW in 2022. As the first hospital in Korea to start heavy ion therapy (HIT), the hospital has the necessary equipment for research, including HIT machines, related experimental equipment, development manpower, and verification capabilities. The consortium will develop an integrated solution for high-precision HIT patient-specific quality control, contributing to the improvement of patient treatment quality.

About [Oncosoft Inc.](#)

Oncosoft Inc. provides diagnosis, treatment, and follow-up management software by converting radiographic data into 3D through artificial intelligence technology. Oncosoft's technology and software enhance the reliability of cancer diagnosis and treatment by visualizing the patient's current condition and cancer progression in images and 3D visualizations.

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Collaboration Agreement Signing Ceremony held by:

Dr. Christina Vallgren
CEO of Terapet SA

Prof. Ik Jae Lee
Director of Heavy Ion Therapy Center,
Yonsei Cancer Center

Prof. Dong Wook Kim
Clinical Professor,
Yonsei Cancer Center

Prof. Jin Sung Kim
CEO of Oncosoft Inc.
Chief Medical Physicist & Professor,
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