

**TEMPLATE RICHIESTA ATTIVAZIONE TOPIC AGGIUNTIVI SU FONDI PNRR**

**D.M. 9 aprile 2022 n. 352**

Project title/Titolo del Progetto	COMBO TRIAL
Principal Investigator	Dr.ssa Daniela Bernardi, RTD-B
Main field of interest/Ambito principale di ricerca	BREAST CANCER
Abstract	<p>Women operated for breast cancer have a higher mortality risk (lifetime risk of 17-30%) than non-operated due to the risk of developing loco-regional recurrence associated with that of new cancer in the healthy breast. Radiological follow-up with mammography (MX) guarantees early diagnosis and reduction of specific mortality; however, MX is less effective in operated women due to the surgical/actinic outcomes. The use of Contrast-Enhanced Mammography (CEM) can overcome these limits by allowing, through the accumulation of the contrast medium, the identification of neoplastic lesions even in the presence of morphological alterations after treatment. Studies comparing CEM and MX in screening settings on non-operated women reported CEM sensitivity up to 40% higher than MX. Images will be evaluated using radiomics and artificial intelligence techniques, correlating findings with pathology assessment, in cases where tumors will be diagnosed. The aim of the study is to demonstrate this superiority in women operating for breast cancer</p>
Type of Co-funding	<a href="#">D.M. 352/2022</a> - Borse di dottorato cofinanziate dalle imprese <sup>1</sup>
Lab name and address	Advanced Image analyses laboratory, Humanitas University
Brief description of the coherence of the Project in relation to the PNRR objectives <sup>3</sup>	<p>The project is consistent with the objectives of the PNRR as it is aimed at allowing collaboration with the company for growing highly qualified figures. The project is also aimed at satisfying the innovation needs of companies through a significant development of knowledge applied to the objectives of</p> <ul style="list-style-type: none"> <li>• diagnostics and innovative therapies in precision medicine;</li> <li>• economic and financial sustainability of systems and territories</li> <li>• development and use of artificial intelligence</li> </ul> <p>All these disciplinary areas are consistent with the needs of the country.</p>
N. of months abroad (min. 6, max. 18) [compulsory]	Six (6)
Name of the research institution/company abroad	Siemens Healthcare S.r.l.
N. of months of internship (min. 6, max. 18) [compulsory only for D.M. 352/2022]	Six (6)
Name of the company <sup>3</sup>	Siemens Healthcare S.r.l.
Scientific references	Dott.ssa Margherita Milite
Type of contract	PhD scholarship of € 18.000 gross per year awarded by Humanitas University. This sum is exempt from IRPEF income tax according to the



Finanziato  
dall'Unione europea  
NextGenerationEU



	<p>provisions of art. 4 of Law no. 476 of 13th August 1984, and is subject to social security contributions according to the provisions of art. 2, section 26 and subsequent sections, of Law no. 335 of 8th August 1995 and subsequent modifications.</p>
--	--