



RESEARCH PROJECT WITH PUBLIC FUNDING 2023





IMMUNO-RADIOTHERAPY TO SPARE THE IMMUNE SYSTEM (LYSAIRI) €477,298



WHAT IS THE AIM OF THE RESEARCH PROJECT?

The idea behind the project is to be able to spare lymphocytes and thus avoid 'radiation-induced' lumphopenia. the severitu of which is closely correlated with survival rates. Two main areas will be studied.



WHO ARE THE PRINCIPAL INVESTIGATORS?

Karine Lamiraud and Guillaume Chevillon have been part of the ESSEC Institution for more than 15 years as Professor of Health Economy and Professor of Analytics, Economics & Forecasting



A THE STAKEHOLDERS?

LySAIRI is coordinated by Gustave Roussy. It was selected for funding under the 5th call for projects in the Hospital-University Health Research (RHU) action within the *Investissements d'avenir* programme.



ABSTRACT:

- The aim of the project is to develop a new imaging platform quided by artificial intelligence to create a 3D histology of the tumor. LySAIRI will make it possible to define new 'immunological' dose constraints.
- The development of software for prescribing radiotherapy doses will encompass the above solutions. In practice, it will help radiotherapists to define dose constraints for each patient automatically.
- The final pillar will aim to combine radiotherapy optimising the target volume with a new interleukin 15, and will be validated by a detailed medical/economic analysis to facilitate widespread adoption of the programme and assess its business model.

