

Three Months of Research, Learning and Scientific Exchange



Dear All,

The second semester of this year has been particularly intense for the TETRIS consortium, bringing together scientific dissemination, education and collaboration across Europe.

From the contributions of our latest research at **ESTRO 2026** to two new educational webinars and the first **TETRIS Young Researchers Week**, the consortium has continued to strengthen its scientific activities while promoting knowledge exchange and multidisciplinary collaboration.

SPRING MEANS ESTRO



Every spring, the international radiation oncology community gathers at the **ESTRO Congress** to share the latest scientific advances in the field. This year was no exception.

Held in **Stockholm from May 15th to 19th 2026** under the theme **"Innovating Radiation Oncology Together"**, **ESTRO 2026** provided the ideal stage for TETRIS researchers to present the project's latest achievements.

The consortium contributed **three scientific presentations**, highlighting innovative approaches to predicting radiotherapy-induced side effects in breast cancer patients.

Researchers from **Università Vita-Salute San Raffaele** presented two posters:

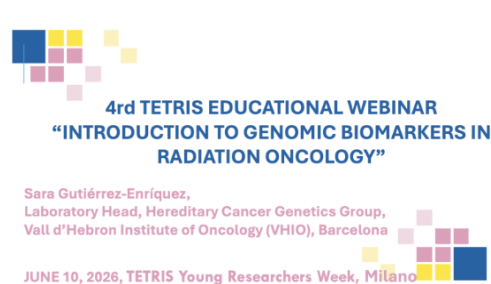
- **CT-based Predictors of Radiation-Induced Pulmonary Toxicity in Breast Cancer Patients**, investigating imaging biomarkers associated with pulmonary late severe side effects.
- **Predictors of Cardiotoxicities after Hypofractionated Whole Breast Radiotherapy**, exploring the relationship between cardiac dose distribution and different types of cardiac events.

In addition, **Benedetta Dionisi Ferrera**, from **Fondazione IRCCS Istituto Nazionale dei Tumori**, delivered a **mini-oral presentation** entitled: **Normal Tissue Genetically Adjusted Radiation Dose (NT-GARD) for Causal Inference Models of Late Toxicity after Breast Cancer Radiotherapy**, presenting an innovative methodology that integrates genetic information into causal inference models for personalised prediction of late radiation-induced side effects and **Eva Onjukka** from **Karolinska University Hospital**, held a presentation highlighting the role of local and nationwide radiotherapy quality registries in supporting research and improving patient care. Her presentation showcased TETRIS as an example of how high-quality clinical registries can facilitate the collection of large-scale data on severe side effects and contribute to the development of personalised risk prediction models.

These contributions demonstrate the multidisciplinary nature of TETRIS and its commitment to developing safer and more personalised radiotherapy through the integration of imaging, genetics and advanced modelling.

👉 Read the full article on our website and download our posters and presentations to know more [here](#).

TETRIS Educational Webinar Series



The TETRIS Educational Webinar Series continued with two new sessions dedicated to the biological foundations of personalised radiotherapy.

On **April 23rd**, **Miguel E. Aguado-Barrera** and **Ana Vega** (FPGMX) presented the third webinar, focusing on the development of **Transcriptomic Risk Scores (TRS)** within Work Package 5 and their potential to improve patient stratification and risk prediction for radiotherapy-related side effects.

[Read the news here.](#)

The fourth webinar, held on **June 10th** during the first **TETRIS Young Researchers Week** in Milan, was delivered by **Sara Gutiérrez-Enríquez** (VHIO). The session introduced the role of **genomic biomarkers**, **Genome-Wide Association Studies (GWAS)** and **Polygenic Risk Scores (PRS)** in predicting late radiotherapy complications, while presenting the ongoing activities of Work Package 4.

[Read the news here.](#)

Both webinars are available on the [TETRIS YouTube channel](#), together with the presentation slides and dedicated news articles on the project website.

TETRIS YOUNG RESEACHERS WEEK



From June 8th to 12th, **Politecnico di Milano** and **Fondazione IRCCS Istituto Nazionale dei Tumori** hosted the **first TETRIS Young Researchers Week**, bringing together early-career researchers and senior scientists from across the consortium.

The week combined lectures, scientific discussions, hands-on sessions and networking opportunities, fostering interdisciplinary collaboration across Work Packages while creating valuable opportunities for young researchers to exchange ideas and present their work.

Beyond the scientific programme, participants also had the opportunity to engage with patient representatives, reinforcing one of the core values of TETRIS: placing patients at the centre of research and innovation.

The initiative represents another important milestone in building a collaborative research environment and supporting the next generation of scientists working towards safer and more personalised radiotherapy. For the news, [click here](#).

SCIENTIFIC CONTRIBUTIONS

- A new scientific publication "**Association of Cardiac and Pulmonary CT Imaging Features with Respiratory Side Effects After Whole-Breast Radiotherapy**" from the TETRIS project has recently been published in Cancers.

The paper is authored by researchers from **Università Vita-Salute San Raffaele** and **Fondazione IRCCS Istituto Nazionale dei Tumori**. It investigates the role of baseline cardiac and pulmonary CT imaging features in predicting respiratory side effects following breast cancer radiotherapy. Find the abstract and full [publication here](#).

- TETRIS research was also presented at **BioIntegraSaúde 2026**, one of Galicia's leading biomedical research events, held at the Complejo Hospitalario Universitario da Coruña (CHUAC).

Miguel Elías Aguado-Barrera from **Fundación Pública Galega de Medicina Xenómica (FPGMX)**, presented the poster "**Integración de firmas transcriptómicas para la estratificación del riesgo cardiopulmonar en radioterapia de mama - Proyecto TETRIS**", showcasing the latest progress achieved within Work Package 5 on the integration of transcriptomic signatures to improve cardiopulmonary risk stratification in breast cancer radiotherapy. Please find the [poster here](#).

LAST BUT NOT LEAST...

Please forward this newsletter to your network and anyone who might be interested, and follow us on our Project TETRIS Channels!

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