

# CONQUAIR: Embio Takes on Healthcare's Air Quality Challenge with Deeptech Initiative

Running From September 2024 to August 2026, the Project Aims to Address a Growing Concern in Modern Healthcare

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Constantinos Loizou, CEO and Founder of Embio Diagnostics (<https://embiodiagnostics.eu/>), revealed the launch of the **CONQUAIR** project—an ambitious initiative poised to transform the quality of air in long-term healthcare facilities. As part of a two-year collaboration that began this month, the project aims to tackle the rising challenge of air quality in hospitals, which is increasingly recognized as a critical factor in reducing the spread of airborne pathogens in healthcare environments.

Addressing the pressing issue of airborne disease transmission in healthcare settings, the CONQUAIR project represents a collaborative effort spearheaded by Embio Diagnostics, with key partners including the University of Florence, Class Srl (Italy), and Resysten Kft (Hungary). Sponsored by the *Eureka-Eurostars* (<https://eurekanetwork.org/programmes/eurostars/>) program, this initiative is aligned with the EU's RIS3 agenda and aims to deliver cutting-edge solutions through Information and Communication Technology (ICT).



## A New Horizon for Healthcare Safety

One of CONQUAIR's cornerstone innovations is its ability to offer continuous **real-time monitoring** of air quality. By analyzing microclimate parameters that could foster the spread of airborne pathogens, the system provides up-to-the-minute data. Healthcare providers can use these insights to significantly reduce the risk of harmful air conditions, thereby safeguarding the health of patients and staff.

The **data-driven nature** of CONQUAIR doesn't stop at air quality monitoring. Its smart system is designed to assist healthcare facilities in making well-informed decisions to maintain optimal indoor air conditions. By offering actionable insights, the project empowers decision-makers to proactively manage and improve the health environment. This, in turn, reduces the burden on healthcare workers and enhances patient outcomes, especially in facilities housing vulnerable populations such as the elderly and immunocompromised.

Central to the CONQUAIR project is its **mobile application**, designed specifically for healthcare professionals. This intuitive tool provides access to well-documented guidelines, tailored interventions, and real-time action protocols. It enables healthcare teams to respond promptly to fluctuating air quality levels and prevent the transmission of airborne diseases—whether through air or contaminated surfaces.

Running from September 2024 to August 2026, the CONQUAIR project aims to address a growing concern in modern healthcare. As this technology evolves, it could become a blueprint for other sectors facing similar challenges in air quality management, demonstrating **the potential of deeptech solutions in tackling real-**

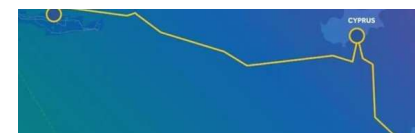
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