

By supporting the growth of healthcare start-ups and fostering the commercialization of new solutions, we are contributing to the economic development of the region. Our project serves as a catalyst for entrepreneurship and business innovation in healthcare.

 01/01/2025 Project Start	 31/12/2028 End Date	 48 months Project Duration
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InnoThyroGen
Horizon Europe Project



Funded by
the European Union

Innovating Thyroid Health with Genomics and Predictive Algorithms through Collaborative Excellence



InnoThyroGen



**NORMAL
THYROID GLAND**



HYPERTHYROIDISM



HYPOTHYROIDISM

About Thyroid Diseases

Thyroid disease is an umbrella term for conditions that affect how your thyroid functions. Hypothyroidism and hyperthyroidism are the two main types of thyroid disease, but they each have multiple possible causes. Thyroid diseases are treatable — usually with medication.

SYMPTOMS



Fatigue



Weight loss



Diarrhea



Menstrual problems



Heat



Tremor of hands



Rapid heartbeat



Excessive sweating

SYMPTOMS



Fatigue



Weight gain



Constipation



Menstrual problems



Coldness



Hair loss



Slow heartbeat



The Idea

Thyroid diseases, including Hashimoto's thyroiditis, Graves' disease, and thyroid cancer, affect millions of people, many of whom remain undiagnosed or misdiagnosed. Current treatments are often generalized and do not consider patients' genetic predispositions, leading to ineffective therapies and severe side effects. The goal of the InnoThyroGen project is to develop innovative diagnostic and treatment methods based on genomic analysis and artificial intelligence, providing a more precise and efficient approach to thyroid disease management.



Individual Approach

Each patient is unique, and InnoThyroGen is built on personalized medicine to ensure optimal treatment for every individual. By utilizing advanced genetic analyses, pharmacogenomics, and lifestyle data, the project allows healthcare professionals to make informed decisions tailored to each patient's specific characteristics. This approach reduces the need for frequent medication adjustments, enhances treatment effectiveness, and minimizes the risk of side effects.



Advanced Technology

By combining cutting-edge genetic research, electronic health records analysis, and artificial intelligence, InnoThyroGen is developing innovative tools for predicting and managing thyroid diseases. The development of specialized gene panels will facilitate early identification of at-risk individuals, while AI-driven digital solutions will provide personalized treatment recommendations. Our goal is to improve clinical outcomes, reduce healthcare costs, and ensure broader access to precise diagnostics and therapies.