



EuroGene

EuroGene Project will address health care issues through a special online e-service in Europe. The service will screen pre-symptomatic, higher risk patients (e.g. hypertensive), and will identify through genetics and environmental analysis the preventive interventions to reduce danger factor levels; people who require medical care will be given diet/lifestyle advice and will be prescribed suitable medication when appropriate.

Despite the growth in technologies for preventive healthcare, the discovery of promising biomarkers or gene variants, there is a problem in translating these advances into benefits for the patient. Early detection of associations between biomarkers, genes, nutrition and medication is offered by the existing system and results in earlier, more effective and simpler interventions that are usually based on nutritional and exercise modifications rather than medication. Increased emphasis is placed on preventive healthcare and delaying the onset of chronic complex diseases such as type II Diabetes and Cardio Vascular Disease. These diseases are caused by a combination of genetic and environmental factors, the former immutable but the latter amenable to modification with the aim of prevention.

EuroGene focuses on translating genetic research into concise, practical information. By combining expertise in understanding individual genetic variation and environmental factors with a proprietary Genostic Rules Engine™, this project will provide scientifically-based recommendations on changes in diet and lifestyle.

The *objectives* of the EuroGene project are:

- To study the requirements and obstacles of the EU-wide deployment of EuroGene.
- To complete any customisation necessary for the EU-wide scope of the service (multilingual issues, cross platform issues, security and reliability of data, platform compatibility issues)
- Address certification and legislation issues
- Validate the service through pilot sites
- Validate the market through research involving all actors (individuals taking a proactive role in their health, wellness, and disease prevention, and their practitioners i.e. doctors and clinicians)
- Complete the business case of the service deployment

Sciona Ltd will serve as the lead scientific partner in conjunction with the Institute of Computer and Communication Systems (ICCS) of Athens Greece. Implementation trials will be carried out at three clinics in Europe. ICCS will serve as the systems software integrator, and INI-Innovation in the UK will perform the business analysis for the project. The three European clinics supporting the project are: the Associazione Mondo Libero Onlus in, Insernia, Italy, the KlinBiochem Department of Clinical Biochemistry and Pharmacology at the University of Bonn in Germany, and the Barbastro Health Care Area, in Spain.

The EuroGene Project includes delivering comprehensive patient records and clinical reports as well as genetic information related to health care. The project includes plans for pan-European expansion while navigating regulatory hurdles across European nations.

EU Funding	1.123.839,00€
Duration	1 January 2008 – 30 June 2009
WebSite	http://eurogene.biomed.ntua.gr
Participating Countries	Germany, Greece, Italy, Spain, UK