

## Partners:

### Project title

Promoters of advanced oncogenetics open online training and multimedia raise awareness on multidisciplinary assessment of patients and their families at risk of hereditary or familial cancer

### Project Acronym

HOPE – How Oncogenetics Predicts & Educates

### Ref. no.

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### Programme

Erasmus+

### Action

Strategic vocational training Partnerships for education and training

P1. UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE GRIGORE T. POPA IAȘI (România) - [www.umfiasi.ro](http://www.umfiasi.ro)

P2. FUNDAȚIA EUROED, Iași (România) - [www.euroed.ro](http://www.euroed.ro)

P3. Centre Jean PERRIN, Clermont Ferrand (France) - [www.cjp.fr](http://www.cjp.fr)

P4. Medical University - Plovdiv, Plovdiv (Bulgaria) - [www.mu-plovdiv.bg](http://www.mu-plovdiv.bg)

P5. University of Szeged, Szeged (Hungary) - [www.u-szeged.hu](http://www.u-szeged.hu)

P6. Asociația ROHEALTH – Clusterul pentru sănătate, Bucharest (România) - [www.rohealth.ro](http://www.rohealth.ro)

P7. GREENSOFT, Iași (România) - [www.greensoft.com.ro](http://www.greensoft.com.ro)



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## How Oncogenetics Predicts & Educates



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### What does oncogenetics means?

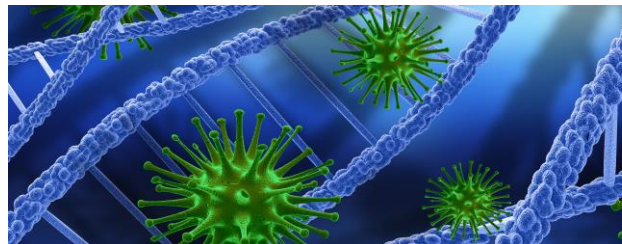
Oncogenetics is a new discipline expanding very rapidly and depending on advances in understanding genes associated with inherited susceptibility to common adult malignancies.

Through guided decisions, the implementation of evidence-based prevention strategies will lead to considerable improvements in clinical decisions and outcomes. In order to move towards this predictive system, it is essential to raise awareness of those vulnerable people and to empower them.

### Evolution

This new medical activity of oncogenetics developed in the early 1990s, with the discovery of major cancer predisposing genes (such as BRCA1 and BRCA2 for breast cancer, or MMR genes involved in colon cancer).

The effectiveness of oncogenetics has been demonstrated in the Western world for more than 5 years, in terms of cancer incidence and prognosis, especially in patients with breast, ovarian or colon cancer. It allows the stratification of cancer risk, offers the possibility of genetic testing and customized risk reduction solutions. In terms of prevention, oncogenetics has become in recent years in Western countries a major economic solution in health systems.



### Latest news in oncogenetics

A Gene that Controls the Severity of Colon Cancer - Regulatory T cells (T-Reg) are essential to regulating the immune system. However, there are several different types of T-Reg cells, and scientists are only now beginning to differentiate among them and understand their functions and roles.

Patients with colon cancer have these same T-Reg cells that lack TCF-1 in their tumor. Before this research, scientists knew many of the main regulators, but this is the first time the link between TCF-1 and colon cancer has been explored.

