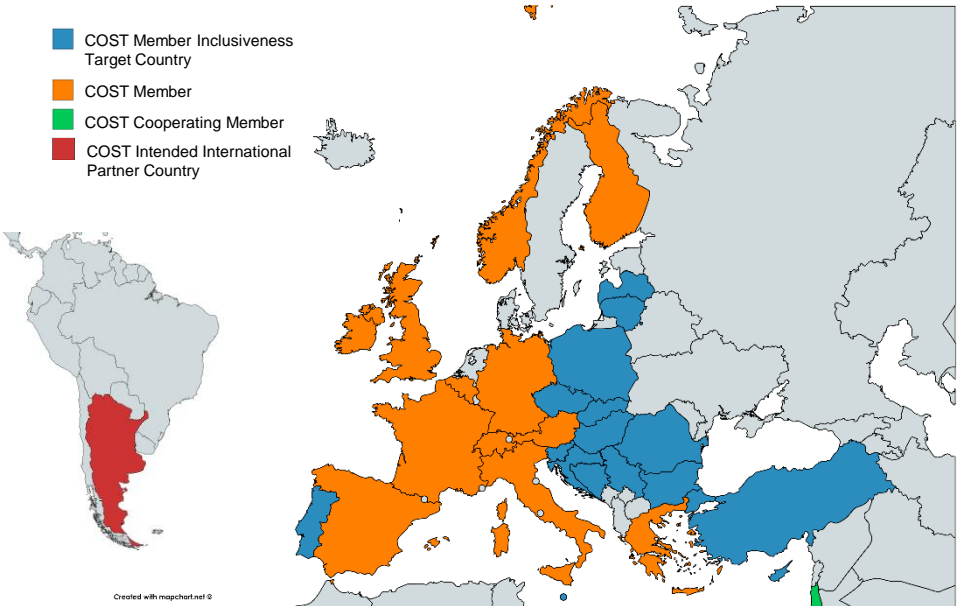


New Diagnostic And Therapeutic Tools Against Multidrug Resistant Tumors

COST Action CA17104 (STRATAGEM)





Growing ideas through networks

This Action will build the first multidisciplinary network, which will include academic laboratories, research institutes, and small and medium enterprises (SMEs), with a wide range of high-level and non-overlapping expertise, that will aim to improve both the diagnosis and therapy of multidrug resistant (MDR) solid tumours.

We currently have only fragmented knowledge about the biomarkers and therapeutic tools that can be used against MDR tumours; there are no predictive/diagnostic algorithms for MDR tumours *ex ante* and all previous therapies against MDR tumours have failed. The key challenge of this Action is to fill these gaps, by producing a comprehensive, open and user-friendly platform of knowledge on MDR tumours by identifying new diagnostic/predictive biomarkers, and producing new, safe compounds that can be used for the personalised treatment of MDR tumours.

Up to 70% of solid tumours are resistant at diagnosis. This means poor life quality and poor prognosis for patients, and high management costs for European healthcare systems. This Action is working to improve the diagnosis and treatment of patients with MDR tumours and reduce the costs of their management.

Finally, the Action aims to raise the level of European research on MDRs, and thus reduce the disparity in research quality between EU countries and ITCs, providing the necessary training for European Early Career Investigators (ECIs) to grow as future independent research leaders, regardless of location, age or gender.

The Action is organised into the following Working Groups (WGs):

WG1:

Identification of new biomarkers and therapeutic targets for MDR tumours

WG2:

Synthesis and nanodelivery strategies for new therapeutic tools against MDR tumours

WG3:

Efficacy validation of new therapeutic tools against pre-clinical models of MDR tumours

WG4:

Pharmacokinetics and ADMET of the new therapeutic tools; safety of the targets



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Scientific challenges

- Find new **biomarkers** that can predict/diagnose MDR and act as suitable **therapeutic targets**
- Design and validate new **therapeutic tools** that can act against MDR tumors, including verification of efficacy and safety

Objectives

Research coordination

- Build a multi/interdisciplinary **network** (including academic institutions and SMEs)
- Integrate **diagnostic** and **therapeutic needs**
- Accelerate the **translation** of basic research results into healthcare applications
- Involve the **stakeholders** to meet final-user needs

Capacity building

- **Integrate** the skill-sets and know-how of partners (web-based resources, meetings, mobility programs)
- Increase the **visibility** of EU research
- Forge a network that can apply for **research funding**
- Stimulate the professional growth of **female researchers**
- Improve links with less research-intensive countries (**ITC countries**)
- Stimulate the scientific growth of **Early Career Investigators** (involvement in Action organization, training schools, STSMs)



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CA17104 Key Roles

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