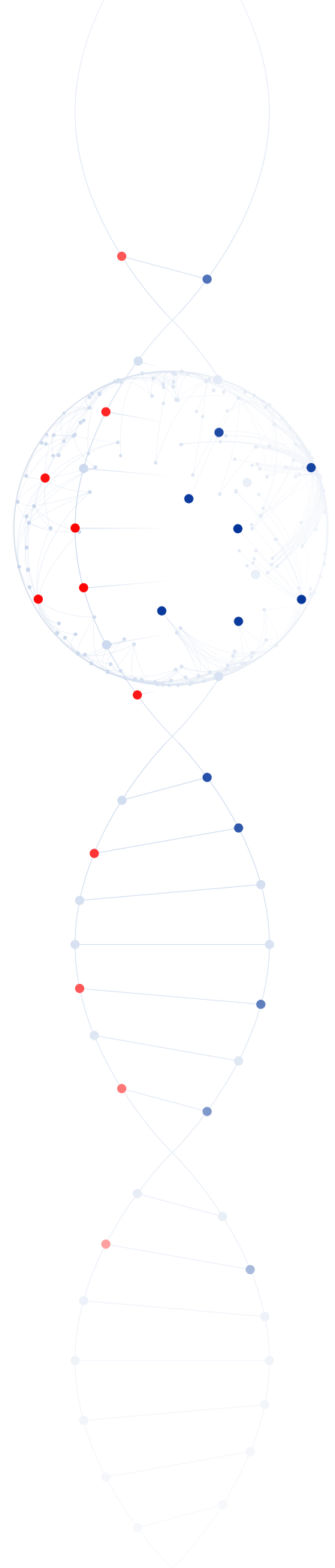


# EUCANCan

EUCANCan: a federated network of aligned and interoperable infrastructures for the homogeneous analysis, management and sharing of genomic oncology data for Personalised Medicine.





## Acronym

EUCANCan

## Full Title

EUCANCan: a federated network of aligned and interoperable infrastructures for the homogeneous analysis, management and sharing of genomic oncology data for Personalised Medicine.

## Programme

European Union's Horizon 2020 research and innovation programme

## Contract Number

GA No 825835

## ABSTRACT

EUCANCan is a European Canadian cooperation funded by the European Union's Horizon 2020 research and innovation programme and the Canadian Institutes of Health Research. The four-year project aims at enhancing modern oncology, by implementing a cultural, technological and legal integrated framework across Europe and Canada, to enable and facilitate the efficient analysis, management and sharing of cancer genomic data.

This cooperative framework is not only expected to immediately contribute to improve biomedical research in cancer, but to also serve as a model for globalizing and enriching Personalized Medicine initiatives, allowing the exchange of data, clinical experience and information across different national health systems.

EUCANCan's major efforts are directed to tackle current cultural, technical and ethico-legal limitations that prevent the sharing and the reuse of existing and newly generated genome oncology data.

These major efforts have organised our internal work plan into some major tasks:

1. Homogenize protocols for genome analysis (variant calling and interpretation) that allows the direct comparison of genomic results without the need of reanalysis.
2. Generation of standards for the organization, indexing and sharing of clinical data, close or inside healthcare systems.
3. Implement interoperability protocols for data storage, indexing, and exchange between the different nodes, including replicated data portals for searching and accessing data.
4. Definition of an ethico-legal frame that, not only allows the free and legal exchange of genomic and clinical data between countries, but that also rescues the compromise that the research community has with patients, promoting ethical practices of cooperation and data sharing.



## Duration

48 months (01/01/2019 - 31/12/2023)

## Project Funding

5,999,453.75 EUR

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- Ontario Institute for Cancer Research, Canada
- Centre National de la Recherche Scientifique, France
- Hartwig Medical Foundation, Netherlands
- Fundacio Centre de Regulacio Genomica, Spain
- European Molecular Biology Laboratory, Germany
- Consorci Institut D'Investigacions Biomediques August Pi I Sunyer, Spain
- Institut Català D'Oncologia, Spain
- Fundació Provada Institut D'Investigació Oncològica Vall D'Hebron, Spain
- Universitätsklinikum Heidelberg, Germany
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- The Royal Institution for the Advancement of Learning/Mc Gill University, Canada
- Universidad del País Vasco/ Euskal Herriko Unibertsitatea, Spain
- Heidelberger Akademie der Wissenschaften, Germany
- LINQ management GmbH, Germany
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