

TARGET GROUPS AND BENEFITS

We contribute to public health preparedness and response to possible future pandemics by achieving the following:

1. Impact on infrastructure and preparedness:

- Rapid adaptation and adjustment of laboratory infrastructure to improve response and lay the groundwork for future needs.
- Detection of new lineages and variants of SARS-CoV-2, clades of seasonal Influenza and RSV specific genotypes in the community to assess risk and viral circulation.
- Strengthening the capacity to manage the different phases of virus circulation.



2. Implications for policy and decision makers:

- Implementation of an integrated respiratory virus surveillance for monitoring respiratory virus circulation.
- Evaluation of public health interventions, such as vaccination or use of antivirals, to support policy decisions.



3. Impact on patient health:

- Detection and analysis of suspected mild and severe respiratory infections in primary care and hospitals in the Autonomous Regions of Spain.
- Monitoring new variants of SARS-CoV-2, seasonal influenza and RSV genotypes in terms of severity and neutralising antibody escape.

■ Identification of local transmission of specific lineages and variants of SARS-CoV-2 (according to geographical distribution), seasonal influenza and different RSV genotypes.

■ Evaluation of current diagnostic tests (RT-qPCR) to improve sensitivity and specificity, contributing to early diagnosis (and clinical management) of patients infected with new variants of SARS-CoV-2, influenza and RSV.

■ Recognition of viral mutations associated with disease severity to optimise treatment strategies.

■ Refining sequencing analysis methods for accurate and harmonised classification of circulating viruses.



WORK PLAN



DELIVERABLES

- Management plan.
- Communication strategy and visibility/dissemination channels.
- Project website.
- Project leaflet.
- Description of the file transfer and bioinformatics nomenclature mechanism.
- RELECOV report describing how the genomic data and generated sequences will be released into the public domain (GISAID and ENA and other bases guidelines).
- Inclusion of sequencing data in the weekly report.
- Dissemination report.
- Evaluation report including key performance indicators report.
- Data reporting updates to ECDC-TESSy.
- Genomic surveillance of viral respiratory infections SARS-CoV-2, Influenza and RSV.
- Scan the following QR code to view the full table of deliverables:



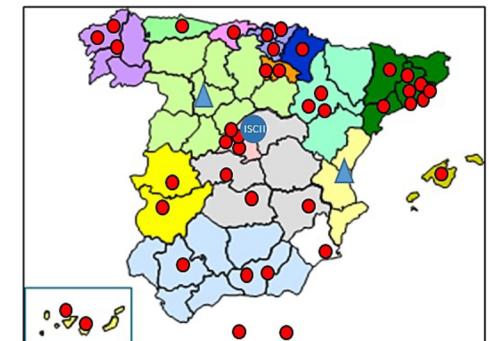
RELECOV 2.0

GA101113109

<https://relecov.isciii.es/>



CONSOLIDATION OF WGS AND RT-PCR ACTIVITIES
FOR SARS-CoV-2 IN SPAIN
TOWARDS SUSTAINABLE USE
AND INTEGRATION OF ENHANCED INFRASTRUCTURE
AND PROCESSES IN THE RELECOV NETWORK



RELECOV network
Carlos III Health Institute (ISCIII)
Laboratories (Hospitals) ●
Regional nodes ▲

The project RELECOV 2.0 is cofunded by the European Union (EU). Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the EU or the European Health and Digital Executive Agency (HaDEA). Neither the EU nor the HaDEA can be held responsible for them.



KEYWORDS

RELATIONSHIPS FOCUS OF



- Geographic distribution of respiratory viruses in Spain

 - SARS-CoV-2.
 - Influenza.
 - RSV.
 - Other respiratory viruses

BASIC DATA

- Improvement of the laboratory surveillance system in Spain through the implementation of genomic surveillance, at regional level, for SARS-CoV-2, seasonal influenza and RSV infections, thanks to the progress in technical specialisation achieved by the RELECOV network.
 - Consolidation of the RELECOV platform for data management, analysis and dissemination.

THE NETWORK

The RELECOV network, launched in January 2021, consists of 49 laboratories distributed across the 17 Spanish

The RELECOV laboratories provide a European and transnational dimension to Spain's research efforts. A key strength of the network is its extensive

in harmonizing protocols, pooling and analysing data across countries, and developing approaches to changing the social norms that underpin

OF RELECOV
NEW YORK

RELECOV should be integrated and serve public health surveillance agencies at regional and national levels to rapidly contribute to preparedness and response to future health threats.

The purpose is to establish a national genomic surveillance platform for VRIs, and to strengthen

Currently, the RELECOV network analyzes clinical specimens from patients with influenza-like illness (ILI) and Severe Acute Respiratory Infection (SARI) according to a common protocol. The integrated surveillance of SARS-CoV-2, seasonal influenza and RSV in Spain started in September 2020 with the SIVIRAS system (Intergated Respiratory Surveillance System).



RELECOV and PUBLIC HEALTH

RELECOV and PUBLIC HEALTH

InTEGRATE genomic sequencing into Viral Respiratory Infection (VRI) surveillance.

improve EU cooperation.

The RELECCO network is coordinated by the Health Ministry, represented in collaboration with the National Coordination Centre for Emergencies and Alerts and National contact point.

The National Microbiology Centre (CNM-ISC) Respiratory Virus and Influenza Reference Laboratory (VRP-ISCIII), which is the World Health Organization (WHO)-National Influenza Centre in Spain (VRP-ISCIII), is the WHO-International Influenza Centre in Spain (WHO-ISCIII). The ISCIII's Genomics and Bioinformatics Unit (BU-ISCIII) provides high-quality genomic and sequencing support to the ISCIII scientific community and is responsible for computational proteome sequence analysis, structure prediction and computing and sequencing and computational proteome sequence analysis, structure prediction and computing.

Programme: EU4Health Programme (EU4H) by the HADEA.	Project title: "Consolidation of WGS and RT-PCR activities for SARS-CoV-2 in Spain towards sustainable use and integration of enhanced infrastructure and processes in the RELECOV network".	Type of action: EU4H Direct Project Grants to Member States' authorities.	Project number and name: 101113109 - RELECOV 2.0.	Beneficiary: ISCIII.	Topic: EU4H-2022-DGA-MS-IBA-1.	Coordinator: Iimaculada Casas, PhD. CNM-ISCIII.	Project duration: 01/07/2023 - 30/06/2025 (24 months until 31/03/2026).	Possibility of project extension for 9 months until 31/03/2026.	Web page: https://relecov.isciii.es .	You can have a look at the details sheet with these details by scanning the following QR code:
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