

Connecting European Cohorts to Increase Common and Effective Response to SARS-CoV-2 Pandemic

PROJECT DETAILS

Funding Programme: Horizon 2020
Sub-Programme: Pan-European
COVID-19 cohorts
Funding Scheme: Research and
Innovation Action

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Project Duration: 36 months
(from 2021-12-01 to 2023-11-30)

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Total EU Grant-Aid: € 19.887.642'42
UniOvi Budget: € 146.250'00

Website: <https://orchestra-cohort.eu/>

CORDIS link: [https://cordis.europa.eu/
project/id/101016167](https://cordis.europa.eu/project/id/101016167)

PROJECT DESCRIPTION

The ORCHESTRA project provides an innovative approach to learn from the SARS-CoV-2 health crisis and derive recommendations for increasing preparedness for future outbreaks. The main outcome of the project is the creation of a new pan-European cohort built on existing and new large-scale population cohorts in European and non-European countries. Data analysis through a federated learning technique supported by advanced modelling capabilities will allow the integration of epidemiological, clinical, microbiological and genotypic aspects of population-based cohorts with environment and socio-economic features. The ORCHESTRA cohort will include SARS-CoV-2 infected and non-infected individuals of all ages and conditions and thereby enabling a retrospective evaluation of risk factors for the disease acquisition and progression of the disease and prospective follow-up aimed at exploring longterm consequences and analysis of vaccination response when vaccines will be available. To better address these research questions, the ORCHESTRA-cohort will include adequately sampled representatives of general populations, COVID-19 patients and special 'at risk' populations of fragile individuals and health-care workers. The project will assess also health costs of COVID-19 with special emphasis on delayed health services in the fragile populations. The participation of non-European and Low-Medium Income Countries and a Global COVID-19 Guidance group of major stakeholders and investigators from successful clinical trials addressing therapeutic approaches to COVID-19, ensures inclusion of all expertise needed and translation of recommendations to different social and economic settings. The project will significantly impact on the responsiveness to SARS-CoV-2 and can be used as a model for responsiveness for new public health threats.

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