

ERINHA's Services

REMOTE ACCESS TO HIGH (BSL3) & MAXIMUM (BSL4) CONTAINMENT FACILITIES

• SUPPORT FOR THE INVESTIGATION OF HOST-VIRUS INTERACTIONS:

large range of *in vitro*, *ex vivo* and *in vivo* models, combined with diverse analytical services* for the study of infection, host response, pathophysiology, etc.

• SUPPORT FOR THE DEVELOPMENT OF MEDICAL COUNTERMEASURES:

high-throughput screening (>> 100 k) using live pathogens, large range of *in vitro*, *ex vivo* and *in vivo* models combined with diverse quantitative and qualitative analytical services* for drug and vaccine efficacy; cytotoxicity safety assessment; test of diagnostic devices, etc.

CONSULTANCY SERVICES

- **TRAINING** in biosafety; biosecurity; bio-risk assessment & management and training of research staff.
- **SUPPORT** for the implementation of high (BSL3) and maximum (BSL4) containment laboratory facilities.

erinha

European Research Infrastructure
on Highly Pathogenic Agents

FOSTER RESEARCH TO PREVENT EPIDEMICS

SUPPORTING RESEARCH ON HIGH CONSEQUENCE PATHOGENS

PROVIDING ACCESS TO HIGH CONTAINMENT FACILITIES

DEVELOPING NEW MEDICAL COUNTERMEASURES

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* flow cytometry, TCID50, PCR, immunohistology, in situ hybridisation, spatial transcriptomics, etc

Core concept and missions of ERINHA

ERINHA is a pan-European distributed Research Infrastructure dedicated to the study of high-consequence emerging and re-emerging pathogens and high containment research. It brings together leading European Biosafety Level 3 and 4 (BSL3 and BSL4) facilities expert in the field of highly infectious diseases. In today's interconnected world, where infectious diseases spread rapidly, ERINHA's coordinated and collaborative approach is essential to protecting public health, society, and the economy. By combining resources, capabilities and expertise, ERINHA enables ambitious, large-scale projects that no single facility —or country— could achieve alone.

Scientific Strategy of ERINHA

ERINHA's strategy is designed to strengthen Europe's preparedness and response to high-risk pathogens through a comprehensive approach that integrates service provision, medical countermeasure development, capacity building, sustainability in pandemic research, and open science practices.



01 Providing access to high (BSL3) and maximum (BSL4) containment facilities:

ERINHA facilitates access to high containment capacities (BSL3/BSL4) and provides expert support, empowering researchers to push the boundaries of infectious disease research. Through EU-funded Transnational Access (TNA) programmes, like the ISIDORe project, we boost pandemic preparedness by giving users access to our cutting-edge facilities. ERINHA also offers contract research, delivering customised solutions to meet both scientific and industry demands.

02 Advancing the development of medical counter measures (MCMs):

ERINHA is committed to closing gaps in MCM development for emerging infectious diseases. Through collaborative projects like NAVIPP, APPEAL, and CCHFVACIM, we accelerate the creation of broad-spectrum antivirals, vaccines and immunotherapies, increasing preparedness and readiness to pandemics and ensuring swift response in public health emergencies.

03 Capacity-building for better pandemic preparedness:

ERINHA strengthens Europe's capacity to respond to public health emergencies by expanding high containment capabilities, improving personnel training, and fostering knowledge exchange. Through EU-funded projects like EVORA and INTERCEPTOR, we enhance harmonisation of practices and consolidate expertise in biosafety, biosecurity, and infectious disease research.

04 Sustaining pandemic preparedness and response research (PP&R):

Sustaining PP&R is vital to increase our readiness to the next crisis. ERINHA focuses on securing long-term funding and maintaining high-containment labs to ensure ongoing countermeasure development, even in non-crisis times. Strategic collaborations with key stakeholders like HERA, WHO, and CEPI support this mission. By prioritizing capacity-building, partnerships, and diverse funding, ERINHA keeps PP&R at the forefront of Europe's agenda.

05 Promoting open science and FAIR data:

By adhering to FAIR (Findable, Accessible, Interoperable, Reusable) data standards and promoting open science, ERINHA facilitates the broader dissemination of knowledge, fostering global collaboration and innovation in addressing infectious disease threats. A key part of this effort is the infrastructure's involvement in the OSCARS project, which focuses on open science and FAIR data principles.