

# COMBINE

## Towards Improved Pandemic Preparedness

Advancing Our Understanding of Virus Cell Entry Using  
Marburg virus as a Model

### START

January 2025



### DURATION

5 years



### FUNDING

€ 7.3 Mio



### TEAM

7 Partners



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[www.combine-marv.eu](http://www.combine-marv.eu)

## AIM

By studying viral entry mechanisms, COMBINE seeks to develop an innovative experimental pipeline for new antiviral strategies that ultimately **improve resilience against emerging infectious diseases worldwide.**

## THE COMBINE APPROACH

The COMBINE project employs a three-step approach to investigate the virus-host cell interaction and cellular uptake of Marburg virus (MARV). The approach uses a unified inverted attachment platform that halts and synchronizes infection at the cell binding stage, is compatible with BSL4 conditions, and integrates multi-Omics technologies.



**Identify** the signature of virus-cell activation



Mechanistic **characterization** of virus binding and entry



Development of novel **inhibitors** and vaccine candidates



Funded by  
the European Union

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