

# COMBINE

## Towards Improved Pandemic Preparedness

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

Any viral infection begins with the attachment of the virus to host cells and subsequent activation of cellular receptors. Therefore, it is essential to identify the cellular factors and mechanisms involved to understand how viruses infiltrate host cells and ultimately combat emerging infectious diseases. This is why COMBINE explores how viruses enter cells using Marburg virus (MARV) as a model and develops a versatile experimental pipeline that serves as a blueprint for rapid international efforts in creating vaccines and treatments for emerging viral threats.

### START

January 2025



### DURATION

5 years



### FUNDING

€ 7.3 Mio



### TEAM

7 Partners



## 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).



Identify the signature of virus-cell activation



Mechanistic characterization of virus binding and entry



Development of novel inhibitors and vaccine candidates



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