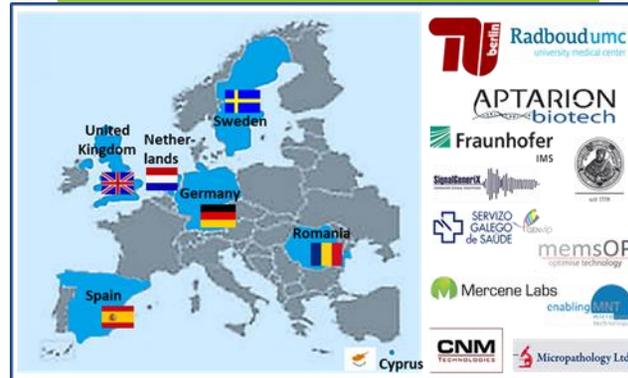


*European collaboration to tackle one of the world's leading causes of morbidity and hospitalisation. A prototype point of care (PoC) platform will be developed to target unmet needs for early and fast detection of viral respiratory infections, using the paradigm of respiratory syncytial infection (RSV), a major cause of disease burden in children but also a major diagnostics and management challenge in the daily practice.*

RSV is the leading cause of acute lower respiratory infections (ALRI) in children, estimated to cause approximately 33.8 million new episodes of ALRI in children annually. Annual RSV related deaths have been estimated at 253.000, mainly in developing countries, accounting for up to 6.7% of the mortality of children aged <1 year globally, positioning RSV as the second most important cause of death during infancy.

In addition to severe acute disease, RSV infection has been linked to an increased risk in the development of wheezing illness in later life. Any advance in RSV detection, clinical characterisation and cost reduction for diagnosis and treatment will have a major impact on the healthcare system.



The **PoC-ID Project** brings together **13 proven expert teams from 7 European countries**, to address the increasing demand for rapid and sensitive point-of-care (PoC) diagnostics, to **reduce healthcare costs and increase the quality of life** with a focus on infectious diseases.

### Contact:

**Leopold Georgi, PoC-ID Coordinator**  
**Technische Universität Berlin (TUB)**

E-mail: [info@poc-id.eu](mailto:info@poc-id.eu)

Web site: [www.poc-id.eu](http://www.poc-id.eu)

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“Platform for  
ultra-sensitive  
**Point-of-Care**  
diagnostics for  
**Infectious**  
**Diseases”**  
(PoC-ID)  
[www.poc-id.eu](http://www.poc-id.eu)

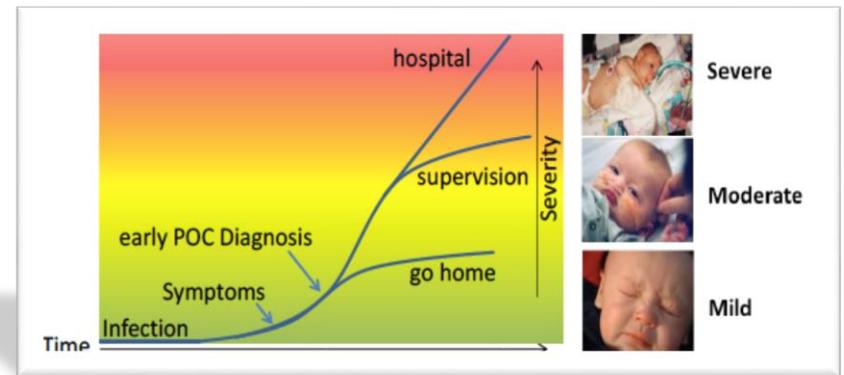


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Grant Agreement: 634415

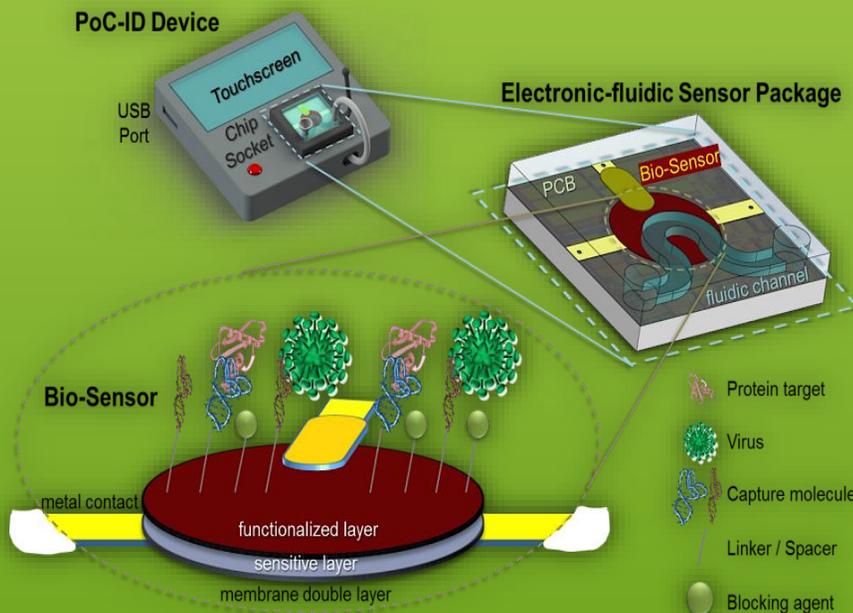
# PoC-ID Project

PoC-ID will combine the detection of both pathogen and host responses leading to more accurate diagnosis.

This novel approach will support prevention and control of pathogen spread and enable faster and more personalised patient treatment.



## Development of novel micro- and nanoelectronic-based bio-sensors



PoC-ID will enable new types of point-of-care diagnostics for virtually any type of complex liquid sample.

- ❖ Applications are: disease diagnosis, monitoring of therapeutic responses, clinical research of pathogen-host interaction and personalised medicine.
- ❖ The platform technology can easily be adapted to a variety of diagnostic or bio-sensing purposes.
- ❖ Improved performance by a combination of innovative nanomembrane technology, molecular engineered capture molecules and two novel sensing concepts: (a) Graphene based (b) Acoustic flexural plate wave based.
- ❖ Further advances arising from the integration of sensors, read-out electronics and microfluidics into one user friendly point-of-care platform.
- ❖ Costs of the new disposable sensors will be ultra-low at high volumes, thanks to designing into microelectronics production flows.