Partner Network for a Clinically Validated Multi-Analyte Lab-on-a-Chip Platform (PARCIVAL)

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Research Areas

- Tool Development
- Product Development
- Device

At a Glance

- Status: Completed Consortium
- Year Launched: 2012
- Initiating Organization: European Commission Seventh Framework Programme (FP7)
- Initiator Type: Government
- Location: Europe

Abstract

The objective of Partner Network for a Clinically Validated Multi-Analyte Lab-on-a-Chip Platform (PARCIVAL) is to develop an integrated and automated multi-analyte lab-on-a-disk platform for the fast and reliable “sample in-answer out” diagnosis of highly infectious respiratory pathogens, resistance patterns, and biomarkers for individual severity of the infection.

Mission

The objective of PARCIVAL is to develop an integrated and automated multi-analyte lab-on-a-disk platform for the fast and reliable sample in-answer out diagnosis of highly infectious respiratory pathogens, resistance patterns, and biomarkers for individual severity of the infection. The platform format will be based on completely integrated microfluidic foil-disposables. The disposables will feature different panels (selection of pathogens, resistance patterns, biomarkers), which can be freely selected and combined to allow a comprehensive choice of diagnostic parameters by the clinician at the point-of-care, vastly increasing the access to diagnostic information for doctors in everyday situations and
Emergencies. The integrated platform with pre-packaged liquid and dry reagents will automate all processing steps from sample preparation to assay processing to result reporting. This will allow evidence-based therapeutic decisions and allow antibiotic prescriptions that are tailored to the individual patient and thus offer the prospect to greatly improve therapeutic outcomes. Also, an air-sampling add-on module for monitoring of clinical ventilation systems will be developed and interfaced to the platform.

**Consortium History**

The project started on Jan. 1 2012, and lasted for three years.

**Structure & Governance**

The consortium consists of nine partners (six enterprises, four of which are SMEs, and three institutes).

**Sponsors & Partners**

PARCIVAL is a project financed by the EC (FP7-HEALTH Collaborative project).

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