



COMBACTE LAB-Net, a European laboratory network for clinical trials on anti-infectives to combat bacterial resistance

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Facts & Figures

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109 433 010 € IMI funding:

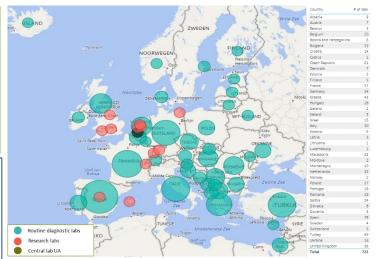
Project website: www.combacte.com

What is COMBACTE-NET and LAB-Net?

LAB-Net is the laboratory network COMBACTE-NET (Combatting Bacterial resistance in Europe). Its overarching objective is to establish, train, and maintain a high-quality geographically representative European laboratory network to support antibacterial drug development via various clinical trials. LAB-Net consists of routine diagnostic laboratories, specialized research microbiology laboratories, and a central coordinating laboratory based at the University of Antwerp, Belgium (Fig. 1). This network is fully complementary to COMBACTE-NET CLIN-Net, the clinical investigator network and closely linked with the clinical studies.

LAB-Net since 2013

- Since its start in January 2013, LAB-Net has grown from 200 to 723 laboratories in 41 European countries participating in seventeen clinical studies (as of September 2018). LAB-Net has currently 1014 laboratory contacts (Fig. 2).
- 627 routine microbiology labs were approached for feasibility in one or more studies.
- 2,812 laboratory questionnaires (incl. baseline Q) were sent and over 40% were completed (1259 new study specific laboratory questionnaires and 59 baseline questionnaires were sent only in 2017).
- 976 investigators in 403 sites have participated in site initiation visits and investigators' meetings and were trained by LAB-Net on sample collection, handling, storage and shipment.
- Development and launch of a LAB-Net Quality Assurance Program including External quality assessment (EQA) panel development & GCP training for laboratories:
 - 61 laboratory investigators trained at 6 GCP trainings
 - EQA panel for one observational and one interventional study to assess the capacity of laboratories to detect MDR Gram-negative bacteria
- A repository was established with more than 35000 specimens and 5000 strains of five clinical studies that can be linked to anonymized clinical information. It will serve as a repository for future COMBACTE studies and a core facility to study microbial and human biomarkers. The repository will support the development of new antimicrobial agents and novel rapid diagnostic tests.



1. Distribution of the LAB-Net routine diagnostic laboratories, research laboratories and central laboratory in Europe.

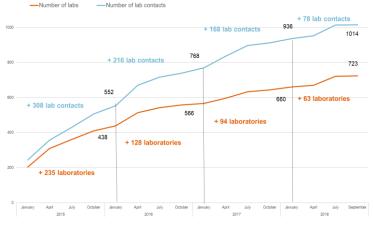


Fig. 2. Growth of the number of laboratories and laboratory contacts in LAB-Net since January 2015.

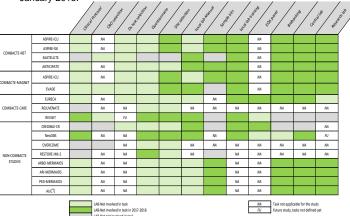


Fig. 3. LAB-Net involvement in various tasks in 2017 and 2018 (dark green cells) and in general since the start of the COMBACTE-NET project (light green cells).

The COMBACTE-NET network is able to contribute to all aspects of clinical study development and execution. LAB-Net brings in all aspects of microbiological expertise to the clinical studies it is involved in ranging from contributing scientific expertise to clinical protocol development to site selection, lab training and biobanking (Fig. 3). The final objective by the end of COMBACTE-NET is to establish a sustainable infrastructure beyond the COMBACTE-NET funding.



