Study Demonstrates Ability of Idylla™ EGFR Mutation Test to Produce a Result in 80% of Failed Next Generation Sequencing Lung Cancer Tests

Mechelen, Belgium, 28 May 2018 — Biocartis Group NV (the ‘Company’ or ‘Biocartis’), an innovative molecular diagnostics company (Euronext Brussels: BCART), today announces the publication of a study1 in the Journal of Clinical Pathology demonstrating that the Idylla™ EGFR Mutation Test (CE-IVD) was able to rescue 80% of the EGFR samples whose assessment was unsuccessful with Next Generation Sequencing (NGS). The study concluded that the Idylla™ EGFR Mutation Test is a viable alternative to NGS for rapid treatment decisions2 in patients with acute deterioration, in particular when testing is performed on a less than optimal tumor tissue sample, which frequently yields insufficient amounts of DNA for proper NGS analysis.

The study, conducted by amongst others Prof. Giancarlo Troncone, Professor of Anatomic Pathology of the Department of Public Health, University of Naples Federico II (Naples, Italy) and Prof. Massimo Barberis, Director of Histopathology and Molecular Diagnostics Unit of the Division of Pathology and Laboratory Medicine, Istituto Europeo di Oncologia (Milan, Italy), included 68 archival DNA samples previously processed by NGS3. A total of 43 had a valid NGS result and 25 (37%) had an invalid NGS result. These samples were retested by directly pipetting4 the DNA5 into the Idylla™ EGFR Mutation Test cartridge. There was a 100% concordance with NGS for the valid results, where Idylla™ confirmed the EGFR mutational status. For a large portion (20/25 or 80%) of the cases whose NGS assessment was invalid, Idylla™ was able to process the sample and adequately produced a result. In 4/25 (16%) of these cases, Idylla™ detected actionable EGFR mutations, which means a larger patient population that could potentially benefit from targeted treatments.

Lung cancer testing today is often complex because of the limited amount of lung cancer tissue available, which frequently leads to failure of test results. The Idylla™ EGFR Mutation Test is performed on Biocartis’ Idylla™ system and allows the detection of 51 EGFR mutations, which are included in international guidelines6 for all patients with advanced NSCLC7 of a non-squamous subtype, directly from only one slice of FFPE8 tumor tissue. The test delivers results in approx. 2.5 hours with less than 2 minutes hands-on time.

Giancarlo Troncone, MD, PhD, Professor of Anatomic Pathology, University of Naples Federico II (Naples, Italy), commented: "Timely communication between oncologists and molecular pathologists is crucial, in particular for acute deteriorating patient clinical management. Our data showed that, when clinical decisions should be taken quickly to save time since days have been spent on waiting for an invalid NGS result, Idylla™ can provide a solution."

Lung cancer is the cancer with the highest incidence worldwide9. The launch of Biocartis’ fully automated Idylla™ liquid biopsy ctEGFR Mutation Assay (RUO10) is planned for H2 2018.

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More information:
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2 To be taken by a multidisciplinary team.
3 Ion Torrent NGS Assay by Thermo Fisher Scientific Inc, USA.
4 Cases with a valid NGS result were tested by pipetting 3 μl of DNA (corresponding to 1/10th of the original DNA preparation from the sample) in the Idylla™ EGFR Mutation Test cartridge. Whenever possible, in NGS invalid cases the pipetted DNA volume was increased up to 10 μl of extracted DNA. It was previously shown that archival extracted DNA can directly be pipetted inside an Idylla™ EGFR Mutation Test cartridge: Source: De Luca et al., “EGFR mutation on lung cancer cytological specimens by the novel fully automated PCR-based Idylla™ EGFR Mutation Assay”, J Clin Pathol. 2017; 70:295–300.
5 Biocartis has not validated this sample type for clinical use with its Idylla™ EGFR Mutation Test (CE IVD).
7 Non-small cell lung cancer
8 Formalin fixed, parrafin embedded.
9 http://globocan.iarc.fr
10 RUO = Research Use Only.
About Biocartis

Biocartis (Euronext Brussels: BCART) is an innovative molecular diagnostics (MDx) company providing next generation diagnostic solutions aimed at improving clinical practice for the benefit of patients, clinicians, payers and industry. Biocartis’ proprietary MDx Idylla™ platform is a fully automated sample-to-result, real-time PCR (Polymerase Chain Reaction) system that offers accurate, highly reliable molecular information from virtually any biological sample in virtually any setting. Biocartis launched the Idylla™ platform in September 2014. Biocartis is developing and marketing a rapidly expanding test menu addressing key unmet clinical needs in oncology and infectious diseases. These areas represent respectively the fastest growing and largest segments of the MDx market worldwide. Today, Biocartis offers fourteen oncology tests and two infectious disease tests in Europe. More information: [www.biocartis.com](http://www.biocartis.com). Press Photo Library available [here](http://www.biocartis.com). Follow us on [Twitter](https://twitter.com/Biocartis_).

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Forward-looking statements

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