12 NOVEMBER 2020

Biocartis Virtual Capital Markets Day 2020



TODAY'S PRESENTERS



Gaëlle Boulet Life Cycle Lead Idylla™ Menu Biocartis



Dr. Tao Hong, MD, PhD Chief of Microbiology & Molecular Diagnostics, Department of Pathology, Hackensack University Medical Center (US)



Benoit Devogelaere Chief Technology Officer Biocartis



Prof. Dr. Umberto Malapelle, PhD





Herman Verrelst Chief Executive Officer Biocartis



Dr. Rollie Carlson, PhD Chief Executive Officer, Immunexpress (US)



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The Company's securities have not been and will not be registered under the US Securities Act of 1933 (the "Securities Act") and may not be offered or sold in the United States absent registration under the Securities Act or exemption from the registration requirement thereof.

Since the COVID-19 outbreak in December 2019, it has developed into a pandemic, causing significant disruptions to the global economy, including in certain countries in which the Company is operating its business. During H1 2020, the Company has experienced a slow down of its commercial activities and delays of certain partner projects as a result of various measures taken to contain the spreading of the virus. The extent to which the pandemic will continue to affect the Company's operations will depend on future developments, which are highly uncertain and cannot be predicted with confidence, including but not limited to the duration of the pandemic, the severity and resistance of the virus and the actions taken to contain the virus or treat its impact. In particular, and although the Company currently expects that significant demand for its pandemic response products could mitigate the impact of COVID-19 on its oncology business, the continued spread of the virus could adversely impact its operations, including among others, the manufacturing and supply chain, sales and marketing and collaboration activities with partners, and could have an adverse impact on the Company's business and financial results.

BIOCARTIS

AGENDA

- 15.00-15.15 **Introduction** by Herman Verrelst, CEO Biocartis
- 15.15-15.45 Oncology strategy update
- 15.45-16.15 Infectious disease strategy update
- 16.15-16.35 **Q&A**

16.35-17.20 Testimonials by Idylla™ users

16.35-16.50 "*The versatility of Idylla™ in oncology and infectious disease*" by Tao Hong, MD, PhD, Chief of Microbiology & Molecular Diagnostics Department of Pathology, Hackensack University Medical Center, US

16.50-17.05 "*Predictive molecular pathology in the time of COVID-19*" by Umberto Malapelle, PhD, Chief Supervisor of Predictive Molecular Pathology Laboratory, University of Naples Federico II, Italy, EU

"Partnering in Infectious Disease: Immunexpress" by Rollie Carlson, PhD, CEO Immunexpress, US

17.20

17.05-17.20



Introduction

Herman Verrelst, CEO Biocartis





DIFFICULT ACCESS TO MOLECULAR DIAGNOSTICS INFORMATION

- In the US, nearly 80%⁴ of cancer patients do not have genetic mutation results available at initial oncology consultation
- Up to 25% of patients begin treatment before receiving their results⁴





RAPID MOLECULAR TESTING ON THE FULLY AUTOMATED IDYLLA™ UNIQUE PLATFORM FOR DUAL USE IN ONCOLOGY & INFECTIOUS DISEASE





Superior Sensitivity and ease-of-use, combined with sample-to-result turnaround time of 65 to 160 minutes*

Unique, versatile platform for **dual use** in oncology and infectious disease



DEVELOPMENTS IN IDYLLATM ONCOLOGY MENU



• Oncology focus:

- On market Idylla[™] oncology test menu in colorectal, lung, melanoma, with ongoing developments in breast and thyroid cancer
- Selected opportunities to broaden and deepen in oncology
 - Pan-cancer opportunities
 - Improving with the Idylla[™] FLEX technology
 - Expansion into new areas: endometrium, brain and hematological cancers

• Expansion in infectious diseases:

- More diversified Idylla[™] test menu to accelerate further installed base growth
- Driven by the current pandemic testing needs

Please see the IdyllaTM oncology pipeline for all details on the development & regulatory status of assays. The IdyllaTM oncology pipeline reflects the different cartridges and biomarkers in development, including cartridges that can be used for research applications. Please see here for more information about the respective studies, or to the specific product labeling for applicable intended use for each individual Biocartis product. All publications, abstracts & posters are available on www.biocartis.com/publications.

Overview is subject to change in amongst others prioritization of test development by Biocartis and/or partners driven by commercial, partnering & operational considerations. The Idylla[™] GeneFusion Assay (RUO) & Idylla[™] GeneFusion Panel (IVD) are currently under development. NTRK1-3 will be only available in the Idylla[™] GeneFusion Assay (RUO). Patents US 7,700,339, 8,168,383, 8,481,279, 8,486,645, 8,232,060, 8,288,102, 8,377,642, 9,988,688, 9,523,130, 9,096,855, 10,526,661, 9,364,477, 9,539,254, 10,551,383 and pending US applications and all their respective foreign equivalents under license from Cell Signaling Technology, Inc.; ABC = Advanced Breast Cancer; IO = Immunooncology; FNA = Fine Needle Aspirates



NEW

PARTNERSHIPS TO ACCELERATE MENU DEVELOPMENT

Pharma & biotech partners

- What: (joint) development of CDx¹ on Idylla[™]
 What: porting of proprietary bioma panels developed
- For Biocartis: faster commercial adoption, higher market shares
- For partner: better & faster selection of eligible patients for targeted therapies given faster TaT & high sensitivity. Fast TaT reduces competition with therapies not requiring a biomarker, high sensitivity means more patients detected with relevant biomarkers

Kite

COVANCE

Johnson & Johnson

HEALTH

AMGEN

MODCK

AstraZeneca

Bristol-Myers Squibb

Content partners

- What: porting of proprietary biomarker panels developed & validated by 3rd parties on Idylla[™] platform
- For Biocartis: proprietary 3rd party content on Idylla[™] platform, expanded menu appealing to larger audience
- For partner: accelerated global roll-out of content, focus on content education since no platform education needed, cost efficiencies

Immunexpress

GENEPRO

Development partners

- What: development of Idylla[™] assays with IVD development companies and research institutes
- For Biocartis: lowered menu development costs
- For partner: contribution to medical innovation, knowledge sharing & building

∡ a∗cce erate

Research³

Singapore's Agency for

Science, Technology and





1. CDx = Companion Diagnostics; 2. On 15 June 2017, MRC Technology changed its name in LifeArc. LifeArc has been involved in helping deliver a number of therapies including Keytruda (pembrolizumab, marketed by MSD) which is an important immunotherapy treatment for various cancers. On 1 September 2020, Biocartis announced the expansion of the partnership with LifeArc in the field of infectious and immune related diseases; 3. Partnership is with ETPL, the commercialization arm of A*STAR; 5. CAR = cartridges; 6. COGS = costs of goods sold

lifeArc

UK based medical

research charity²

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KEY MESSAGES Q3 2020 BUSINESS UPDATE

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Commercial cartridge volume	 Growth + 61% year-on-year: recovered from significant pandemic impact in Q2 2020 Growth +27% growth year-to-date: on track for the targeted 30% growth for FY2020 In US: returned to growth of commercial cartridge volumes in oncology, complemented by initial sales of Idylla™ SARS-CoV-2 Test In EU: consistent growth in oncology, fully in line with pre-pandemic expectations In RoW¹: year-on-year Q3 2020 growth moderate, while year-to-date growth still stalling due to continued impact of pandemic
Installed base	 During Q3 2020, installed base continued to expand The US representing 50% of all new Idylla[™] placements Lingering impact of pandemic continued to slow down the Idylla[™] instrument growth in RoW markets
Partnerships	 Partnership with GeneproDx² for development of GeneproDx's novel genomic test ThyroidPrint[®] on Idylla[™] Partnership with Endpoint Health³ for development and commercialization of a novel companion diagnostic⁴ (CDx) test on Idylla[™] for critically ill patients Partnership with Genomic Health, Inc. (a subsidiary of Exact Sciences Corporation): termination of collaboration driven by uncertain timing of a product market release because of pandemic Biocartis joined the COVID-19 Testing Industry Consortium led by Bristol-Myers Squibb Company
Test menu	 Publication of FACILITATE study supported by AstraZeneca, showing that Idylla[™] reduces EGFR mutation testing turnaround time by more than a week, allowing faster patient management decisions⁵ EUR 1.2 million grant from VLAIO for the development of the Idylla[™] GeneFusion Assay Successful market release in Europe of the CE-marked version of SeptiCyte[®] RAPID on Idylla[™], in collaboration with Immunexpress Successful launch of CE-marked version of the Idylla[™] SARS-CoV-2 Test
Cash position	Biocartis' cash position end Q3 2020 amounted to EUR 137m (unaudited figure)

1 RoW = Rest of the World. RoW is defined as the world excluding European direct markets, US, China and Japan; 2 On 3 November 2020, Biocartis announced it had signed a license, development and commercialization agreement with GeneproDx, a molecular diagnostics company based in Santiago, Chile; 3 On 3 November 2020, Biocartis announced it has entered into a partnership agreement with Endpoint Health, a Palo Alto, CA (USA) based company developing personalized care solutions and targeted therapies for critically ill patients; 4 An IVD companion diagnostic device is an in vitro diagnostic device is on 6 November 2020; 5 It concerned a prospective, real-world data set study across 16 European sites in Belgium, France, Germany and Italy. The study aimed to prospectively test 100 paraffin-embedded biopsy or cytology tissue samples with ≥10% neoplastic cells per site, from patients with advanced NSCLC

THE RIGHT MOMENT FOR A STRATEGIC REVISIT

MARKET at a tidal shift due to pandemic

- A new 'pandemic world': supports current step-up in infectious diseases
- A unique opportunity: speed and simplicity of Idylla[™] addresses current and future rapid response testing needs
- Evolution of testing needs: unique combination of oncology and infectious disease testing on one single platform



Idylla[™] as a unique rapid, easy to use and highly accurate platform for dual use in both oncology & infectious disease testing

BIOCARTIS at an inflection point

- Our oncology customer base and franchise is ready for further scaling:
 - Product excellence: demonstrated Idylla[™] performance
 - Commercial: global market access and expanding installed base due to commercial network, growing regulatory approvals Idylla[™] platform & tests
 - Operational footprint: growing manufacturing capacity while maintaining highest quality standards
 - R&D efficiencies: leaner development processes
- First expansions in infectious diseases:
 - Pandemic menu: Idylla[™] SARS-CoV-2 and SeptiCyte[®] RAPID on Idylla[™]
 - First market access: sales force contracted premium accounts in EU & US
- Growing partner business model: optimizing partnering business model to accelerate core strategy



Oncology strategy update



IDYLLA™ IN THE CANCER TREATMENT CONTINUUM





Gene signatures

- MDx tests based on RNA Gene Signatures are used for e.g.:
 - o Diagnosis
 - \circ Prognosis
- Often high value once validated & clinical value demonstrated
- Examples
 - SeptiCyte[®] RAPID
 - \circ ThyroidPrint[®]

Targeted therapy

- MDx tests detecting specific tumor mutations used for therapy selection in a specific cancer type
- Significant pharma pipeline of new targeted therapies
- Examples
 - Zelboraf^{®1} (BRAF)
 - Tagrisso^{®2} (EGFR)
 - Erbitux^{®3} (RAS)
 - Vectibix^{®4} (RAS)



Pan-tumor

- Pan-tumor application of tumor mutation tests for therapies selected based on genetics rather than location of the tumor
- Allows therapy use across
 multiple cancer types
- Positive impact on underlying test volumes
- Examples
 - Vitrakvi^{®5}
 - Keytruda^{®6}
 - Rozlytrek^{®7}



Immuno-oncology

- MDx tests supporting immuno-oncology cancer treatments
- Consists of many different therapies, e.g.:
 - Immune checkpoint inhibitors
 - Cell and viral therapies
 - Vaccines
- High unmet need for underlying MDx testing

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- Liquid biopsy
- MDx tests via liquid samples
- Use in diagnosis, prognosis and Molecular Surveillance (i.e. therapy selection, response and recurrence monitoring)
- Can be done through off-theshelf catalogue panels as well as tumor-informed, personalized panels



THE IDYLLA™ TEST MENU 2.0:

GAËLLE BOULET, LIFE CYCLE LEAD IDYLLA™ MENU BIOCARTIS



IDYLLA[™] ONCOLOGY PIPELINE

NEW

NEW

NEW

NEW

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RUO = Research Use Only, not for use in diagnostic procedures; CE = CE-marked IVD; Product updates = Product updates = Product updates and implementation of Post-Marketing Surveillance feedback; ABC = Advanced Breast Cancer; IO = Immuno-oncology; FNA = Fine Needle Aspirates; PMA = Pre-Market Approval; 510(k), notification = a premarket submission made to the US FDA. Source: US FDA website. All publications, abstracts & posters are available on www iocartis.com/publications. The Idylla[™] GeneFusion Assay (RUO) & Idylla[™] GeneFusion 9,988,688, 9,523,130, 9,096,855, 10,526,661, 9,364,477, 9,539,254, 10,551,383 and pending US applications and all their respective foreign equivalents under license from Cell Signaling Technology, Inc.

ongoing Ongoing

= on market

= FLEX product

= planned start

= solid biopsy

= liquid biopsy

BIOCARTIS

The Idylla The development pipeline reflects the different cartridges and biomarkers in development, including cartridges that can be used for research applications. Please see here for more information about the respective studies, or to the specific product labeling for applicable intended use for each individual Biocartis product. Overview is subject to change in amongst others prioritization of test development by Biocartis and/or partners driven by commercial, partnering & operational considerations



CURRENT LUNG CANCER MENU ON IDYLLATM

What is lung cancer?

- Most common cancer worldwide: 13% of all cancers¹, 85% are non-small cell lung cancers (NSCLC)²
- EGFR mutation testing: recommended in all patients with advanced NSCLC of a non-squamous subtype³
- Current lung cancer molecular testing is complex:
 - Can take up to several weeks⁴, as labs often send out samples
 - Samples often small, with limited amount of available lung tumor tissue

Existing testing in lung cancer

- Standard of care: slow, complex, costly
- Combination of different techniques (IHC, FISH & qPCR) to cover relevant biomarkers: many samples needed, timeconsuming if tests are performed sequentially
- Next-generation sequencing (NGS)
 - Stringent sample requirements: low sample quality & quantity might lead to high invalid rates
 - Long turnaround time
 - BioIT complexity is major hurdle

Idylla[™] EGFR Mutation Test (CE-IVD)

- Fully automated, directly on 1 FFPE tissue slice from metastatic NSCLC⁵
- Less than 2 minutes hands-on time
- Covers 51 mutations in 1 single cartridge
- Approx. 150 minutes sample-to-result
- Mutation detection for patient management assessment



Idylla[™] ctEGFR Mutation Assay (RUO)

- Fully automated, directly on 2 ml plasma
- Approx. 2 minutes hands-on time
- Covers 51 mutations in 1 single cartridge
- Approx. 160 minutes sample-to-result





TOWARDS A COMPREHENSIVE LUNG CANCER WORKFLOW 1 **ON IDYLLA™**

TWO-STEP LUNG CANCER TESTING ON IDYLLA™



NEW: Idylla[™] GeneFusion Panel*

Chromosomal translocations can produce gene fusions leading to uncontrolled tyrosine kinase activity

- Tyrosine kinase inhibitors are recommended by international guidelines¹ for NSCLC patients with a specific gene fusion
- Idylla[™] GeneFusion Assay:
 - Fully automated testing of ALK, ROS1, RET, MET exon 14, NTRK1-3 in one single cartridge²
 - Less than 2 minutes hands-on time with turnaround time • of ~ 180 min using only 1 slice of FFPE³

The Idylla[™] EGFR/BRAF+ Mutation Assay & the Idylla[™] GeneFusion Assay intend to cover the Vast majority of the actionable mutations in NSCLC

NEW: Idylla[™] EGFR/BRAF+ Mutation Test*

- >60 targets in one single Idylla[™] cartridge
- Detects vast majority of actionable mutations in DNA
- Targets include markers in EGFR and BRAF, as well as a.o. KRAS G12C which covers ~41% of KRAS mutations in NSCLC⁴
- Completes the Idylla[™] lung menu and extends partnering opportunities



EGFR/BRAF+ Mutation Assay and the IdyllaTM GeneFusion Assay can be used in a different sequential order. The IdyllaTM EGFR/BRAF+ Mutation Assay and the IdyllaTM GeneFusion Assay should be performed following international recommended guidelines * The Idylla[™] GeneFusion Assay and the Idylla[™] EGFR/BRAF+ Mutation Assay will first be launched as RUO. The Idylla[™] GeneFusion Panel (IVD) are currently under development. NTRK1-3 will be only available in the Idylla[™] GeneFusion Assay (RUO). Patents US 7,700,339, 8,168,383, 8,481,279, 8,486,645, 8,232,060, 8,288,102,

8,377,642, 9,988,688, 9,523,130, 9,096,855, 10,526,661, 9,364,477, 9,539,254, 10,551,383 and pending US applications and all their respective foreign equivalents under license from Cell Signaling Technology, Inc.; 1. NCCN Guidelines version 8.2020 Non-small Cell Lung Cancer; 2.; 3. FFPE = formalin fixed, paraffin embedded; 4 25% of NSCLC are KRAS and 41% of

STRONG PERFORMANCE OF THE IDYLLATM GENEFUSION ASSAY

Idylla[™] vs comprehensive NGS panel

VS



- Comparator: comprehensive NGS technology, optimized for detection of gene fusions
- Strong agreement across all markers:
- Overall Percentage Agreement:
- Positive Percentage Agreement:
- Negative Percentage Agreement:



97-100%

Idylla[™] vs amplicon-based NGS panel

- Comparator: amplicon-based NGS technology
- Excellent agreement across all markers:
 Overall Percentage Agreement: 99-100%
 Positive Percentage Agreement: 100%
 Negative Percentage Agreement: 99-100%

VS







THE FUTURE IDYLLA™ LUNG DIAGNOSTIC WORKFLOW



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Idylla[™] in lung diagnostics, complementary to NGS

- Idylla[™] as the go-to platform for fast results on actionable biomarkers, enabling rapid initiation of targeted therapy with minimal sample input and superior ease-of-use
- If no actionable biomarkers are detected with Idylla[™], NGS can be performed to complete the profiling and support experimental therapies

The Idy/IaTM EGFR/BRAF+ Mutation Assay and the Idy/IaTM GeneFusion Assay can be used in a different sequential order. The Idy/IaTM EGFR/BRAF+ Mutation Assay should be performed following international recommended guidelines. Idy/IaTM GeneFusion Assay (RUO) & Idy/IaTM GeneFusion Panel (IVD) are currently under development. NTRK1-3 will be only available in the Idy/IaTM GeneFusion Assay (RUO). Patents US 7,700,339, 8,168,383, 8,481,279, 8,486,645, 8,232,060, 8,288,102, 8,377,642, 9,988,688, 9,523,130, 9,096,855, 10,526,661, 9,364,477, 9,539,254, 10,551,383 and pending US applications and all their respective foreign equivalents under license from Cell Signaling Technology, Inc. NGS = Next Generation Sequencing. A patient management decision is usually already made to provide immunotherapy if PD-L1 positive. without the need for NGS



STUDIES DEMONSTRATE INCREASING PAN-TUMOR POTENTIAL

What is pan-tumor?

- Pan-tumor implies that therapy selection is driven by genetics rather than location of the tumor
- Allows therapy use across multiple cancer types
- Also pharmaceutical trials based on pan-tumor testing ٠
- Positive impact on underlying test volumes

MSI data from papers published in peer-reviewed journals

	Colorectal	Concordance: 93%-100% Sample size: 683	Gilson et al. Sci Rep 2020; Mindiola-Romera et al. Exp Mol Path 2020; Malapelle et al Cells 2020: Pécriaux et al. JCP 2020; Zwaenepoel et al JMD 2020; Lee et al J Pat Trans Med 2019; Samasion et al JCP 2019; Li et al Clin Col Can 2019
	Endometrial	Concordance: 97% Sensitivity: 95% Specificty: 100%	Gilson et al. Sci Rep Oct 2020 Pécriaux et al. JCP Jun 2020
Ð	Gastric	Concordance: 97% Sensitivity: 96% Specificty: 100%	Farmkiss et al. JCP Oct 2020 Pécriaux et al. JCP Jun 2020
	Urinary tract	Concordance: 100% Sensitivity: 94% Specificty: 100%	Pécriaux et al. JCP Jun 2020
	Duodenal pancreatic	Concordance: 100% Sensitivity: 94% Specificty: 100%	Pécriaux et al. JCP Jun 2020

Pan-cancer applications

Idylla[™] assays for research in pan-tumor applications



Idylla™ cartridge

- KRAS/NRAS/BRAF
- MSI
- GeneFusion

Select potential applications

- Lung, pancreas, breast ٠
- Gastric, prostate, endometrial ٠
- Gastro-intestinal, thyroid

Efficient access to pan-tumor setting: validation of existing products



3 NEW HIGH GROWTH ONCOLOGY SEGMENTS





Names of Idylla™ Assays, Tests or Panels can be subject to change. Unless stated different, Idylla™ Assays are first launched as RUO assay

ldylla™ GeneFusion Assay (RUO) & Idylla™ GeneFusion Panel (IVD) are currently under development. Not all markers may be present in the Idylla™ GeneFusion Panel. Patents US 7,700,339, 8,168,383, 8,481,279, 8,486,645, 8,232,060, 8,288,102, 8,377,642, 9,988,688, 9,523,130,

9,096,855, 10,526,661, 9,364,477, 9,539,254, 10,551,383 and pending US applications and all their respective foreign equivalents under license from Cell Signaling Technology, Inc.

FFPE = formalin fixed, paraffin embedded; NSCLC = Non-small cell lung cancer; NGS = Next Generation Sequencing; IHC = Immunohistochemistry is a valuable tool for the identification and visualization of tissue antigens in biological research and clinical diagnostics. Source: ScienceDirect

🔾 Diagnostic 🦾 Prognostic 🚱 Predictive BIOCARTIS

COLLABORATION WITH



ENTERING THYROID CANCER

Making Precision Medicine Certain

Background collaboration

- A license, development and commercialization agreement focused on the development of GeneproDx's novel genomic test (ThyroidPrint® on the Idylla[™] platform
- GeneproDx will take the lead in the development of the Idylla[™] test W Thyroid Print®
- Biocartis will be responsible for the distribution of the *WThyroidPrint*® ٠ on Idylla[™] through its growing global commercial infrastructure of Idylla[™] instruments

About thyroid testing

- Thyroid nodules are very common, often detected during routine medical exam or by patient self-assessment
- Only ca. 10% of FNA biopsy procedures⁴ reveal malignant cells; approx. 70% confirm a benign diagnosis. The remaining 20% are indeterminate, meaning no certain diagnosis can be provided to physician and patients⁵
- Annually, > 1.2 million thyroid cytology evaluations are reported as indeterminate¹. Here, diagnostic surgery of the thyroid gland is frequently recommended⁶
- Risk of malignancy in these indeterminate cases is est. between 15-35%, meaning that surgical intervention is unnecessary in up to 65-85%⁶

Background GeneproDx

A molecular diagnostics company based in Santiago, Chile

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- WThyroidPrint[®] was clinically validated in a multicenter trial in Chile, after which it was launched in Latin America¹ in Sept 2018, and in a second independent multicenter, prospective trial in the US in Dec 2019²
- New international validation study ongoing³ in leading academic sites in ٠ Europe, the US and Latin-America

About ThyroidPrint[®]

- A gRT-PCR based mRNA-expression classifier⁷ test that helps determine if a ٠ thyroid nodule with indeterminate cytology result is benign or malignant⁸
- Benign test result⁹ allows physicians to recommend watchful waiting as an ٠ alternative to diagnostic surgery
- This prevents exposing patients to surgical risks & permanent thyroid hormone supplementation, and significantly reduces health costs due to unnecessary surgery¹

¹ S. Vargas-Salas et al., Genetic testing for indeterminate thyroid cytology: review and meta-analysis, 2018, Endocrine-Related Cancer, https://erc.bioscientifica.com/; 2 Demonstrating that ThyroidPrint® performs in the same manner in populations with different ethnicities and genetic backgrounds (M. Zafereo et al., A Thyroid Genetic Classifier Correctly predicts with indeterminate cytology: two independent multicenter, prospective validation trials); 3 Results are expected end of October 2021; 4 FNA = fine needle aspirate. In FNA biopsy procedures, approximately 350,000 of which are performed annually in the US alone (Popoveniuc G, Jonklaas J. Thyroid nodules. Med Clin North Am. 2012;96(2):329-349. doi:10.1016/j.mcna.2012.02.002), cells are collected from the thyroid nodule for microscopic examination; 5 Faquin WC, Bongiovanni M, Sadow PM 2011 Update in thyroid fine needle aspiration. Endocrine pathology 22:178-183.; 6 To determine the true nature of the nodule as standard practice. Haugen BRM, Alexander EK, Bible KC, Doherty G, Mandel Randolph G, Sawka A, Schlumberger M, Schuff KG, Sherman SI, Sosa JA, Steward D, Tuttle RMM, Wartofsky L 2015 2015 American Thyroid Association Management Guidelines for Adult Patients with Thyroid Nodules and Differentiated Thyroid: official journal of the American Thyroid Association; 7 Quantitative Reverse Transcription PCR. PCR or Polymerase chair reaction is an efficient and cost-effective way to copy (amplify) small segments of DNA or RNA. As such, millions of copies of a section of DNA are made in just a few hours, allowing further analysis for clinicians to diagnose and monitor diseases using a minimal amount of sample, such as blood or tissue. Source: www.g means that the probability of the nodule being malignant drops from 25% to less than 5%, allowing follow-up to be recommended as an alternative to surgery. Info and source: https://thyroidprint.com/en/home-us/, last consulted on 22 October 2020; 9 NPV (Negative Predictive Value) > 95%

THE IDYLLA™ TECHNOLOGY 2.0: BENOIT DEVOGELAERE, CHIEF TECHNOLOGY OFFICER BIOCARTIS



THE IDYLLA™ TECHNOLOGY: WHERE WE COME FROM

1st generation Idylla[™] products: **PERFORMANCE & VERSATILITY**

Purpose

Establish Idylla[™] as the most versatile MDx testing platform



Superior ease-of-use with $<2 \min$ hands-on time



Fast turn-around-time delivering 10 days faster



Broad sample versatility gives results on 80% of samples that failed on NGS



Superior performance with >95 % concordance and <2 % invalids Technology

All basic building blocks for sample preparation, qPCR (DNA/RNA) and melting curve analysis are available



Solid biopsies (e.g. FFPE, cytological samples)



Liquid biopsies (e.g. plasma, urine)

Pathogens (e.g. swabs, viral transport medium)

Sepsis (e.g. blood)

Applications

• Expanding Idylla[™] menu



 Growing number of Idylla[™] partnerships



FFPE = formalin fixed, parrafin embedded

THE IDYLLATM TECHNOLOGY: WHERE WE AIM TO GO

2nd generation Idylla™ products: FASTER & CHEAPER DEVELOPMENT									
Purpose	Technology	Applications							
Develop more Idylla [™] products faster, at a lower cost	Idylla [™] FLEX technology (in development), a new revolution under the hood of Idylla [™]	Improved development lead times, cost and scalability enables:							
 Eliminate in-line cartridge customization, to reduce development lead times and cost 	 Mass manufactured Idylla[™] FLEX cartridges that can be used across multiple panels 	 Acceleration of Idylla[™] menu growth Further expansion into currently unserved oncology markets Customized Idylla[™] panels 							
 Industrialize and accelerate the design of reagents and software for new panels 	 Panel-specific Idylla[™] FLEX reagents for off-line customization of the cartridge 								
 Enable efficient customization of the Idylla[™] cartridge 	 Reagent and software design based on proprietary Artificial Intelligence algorithms 								

THE IDYLLATM FLEX TECHNOLOGY **EXPLAINED**



The Idylla[™] FLEX technology complements the **core strengths of Idylla**[™] (ease-of-use, speed, performance and sample versatility) with **off-line customization**

BIOCARTIS

IDYLLA™ FLEX: 1 FASTER & CHEAPER DEVELOPMENT 2 ENABLING MOLECULAR SURVEILLANCE



BIOCARTIS

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IDYLLA™ ADDRESSABLE MARKET POTENTIAL IN ONCOLOGY



+ Depicts annual long term addressable IdyllaTM cartridge volume potential. Based on management estimates. Focused on Europe, US and Japan (excluding China and RoW). For indicative purposes only. 1. Based on incidence / prevalence, potential eligibility (e.g., according to tumor stage and treatment) and # tests / patient. 2. Based on incidence and current / potential guideline testing eligibility for cancer types where immune checkpoint inhibitors and cell therapies are most relevant. 3. Based on incidence and current / anticipated cancer guidelines for colorectal, lung, and skin cancer. 4. Based on current partner content collaborations and addition of new content that could benefit from IdyllaTM dependent on partnerships. 5. MRD = Minimal Residual Disease

TOWARDS THE LARGEST MENU IN RAPID ONCOLOGY MD_X TESTING

Total addressable market volumes (in millions)¹



Unique Idylla[™] USPs for rapid oncology Dx

- The current Idylla[™] testing offering addresses approx. 4m annual testing volume
- The new Idylla[™] pipeline allows to grow to a total addressable market of OVEr 10m annual testing volume
- High growth areas thanks to the combination of unique Idylla[™] characteristics:
 - Fast time-to-result
 - Ease-of-use
 - Highly accurate
 - Sample versatility
 - Cost-effectiveness versus existing methods
 - Suitable technology for monitoring



Infectious Disease strategy update

Herman Verrelst, CEO



THE IDYLLA™ INFECTIOUS DISEASE MENU STRATEGY BUILDING BLOCKS

1. COVID-19

- Pandemic-related testing: temporary high need for decentralized MDx testing, faster installed base building in acute settings
- ^(※) Support Intensive Care Unit (ICU)² positioning, together with SeptiCyte[®] RAPID on Idylla^{™6}

Idylla™ tests:

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- Launch Idylla[™] SARS-CoV-2 Test² (CE-IVD, EUA pending) with good performance & positive early field feedback
- Current development of Idylla[™] SARS-CoV-2/Flu/RSV Panel: ability to support flu season testing
- Partnership Bristol-Myers Squibb COVID-19 Industry Consortium: accelerate and improve COVID-19 testing across the globe¹

2. SEPSIS

- Responsible for est. 8m deaths/year globally³, est. annual hospital expense of > USD 24b in the US alone⁴
 - High unmet need: current markers are not rapid (blood cultures) or are non-specific (PCT, CRP)⁵; increased risk in pandemic times
- Fast clinical decisions impact patients outcome
- Relevant Idylla[™] tests:
 - SeptiCyte[®] RAPID on Idylla^{™6} (partnership Immunexpress)
 - Idylla[™] EndPoint test (partnership EndPoint Health): aims at enabling biomarker-based therapeutic decisions in patients with critical illnesses⁷, such as sepsis

3. FUTURE POTENTIAL

Syndromic panel testing:

- One of fastest growing MDx segments
- Idylla[™]'s unique multiplexing platform capabilities allow entry into this market



BIOCARTIS

LONG TERM STRATEGY:

Easy & rapid Idylla[™] infectious disease testing to support the patient journey in the intensive care unit (ICU), including rapid triage and therapy selection of critically ill patients

1 On 1 October 2020, Biocartis announced to have joined the COVID-19 Testing Industry Consortium of nineteen Healthcare Community Organizations led by Bristol-Myers Squibb (BMS). More info here; 2 The Idylla™ SARS-CoV-2 Test and the SeptiCyte® RAPID (CE-IVD) test on Idylla™ are intended for use in microbiology labs; 3 Global Sepsis Alliance, www.sepsis.org; 4 Paoli et al. Crit Care Med (2018): 46: 1889-1897, 5 PCT = Procalcitonin (PCT) assay is a biomarker for systemic inflammation. Positive backetiological cultures, including blood cultures, may not be available before 24 to 48 hours; interpretation of local colonization may be ambiguous; and traditional markers of infection, such as body temperature and white blood cell (WBC) count, may not be specific; 6 SeptiCyte® RAPID is a host-response test that distinguishes sepsis from non-infectious systemic inflammation in patients with critical illnesses. More specifically, the test will be intended to help identify patients with critical illnesses that are intended to help identify patients with critical illnesses that are intended to help identify patients with critical illnesses.

TOWARDS A PRECISION MEDICINE ICU WORKFLOW FOR PATIENTS WITH CRITICAL ILLNESS



BIOCARTIS



Background collaboration

- Endpoint Health (EPH) will lead the development & registration of the Idylla[™] Endpoint test in interventional trials across a range of interventions incl. targeted immunotherapy & coagulation therapy indications
- Parties intend to collaborate on the commercialization of the test, building on growing worldwide commercial infrastructure of Idylla[™] instruments
- Partnership highlights the unique rapid, highly accurate and easy-to-use features of Idylla[™] in areas outside of oncology

About critical illness

- Critical illnesses such as sepsis and Acute Respiratory Distress Syndrome (ARDS)¹ are life-threatening conditions often characterized by dysregulated immune response to infection
- Globally, sepsis alone is associated with 11m deaths annually², is one of the most expensive health conditions with annual healthcare costs est. at > USD 60bn in the US alone³
- Long recognized need for more targeted approach to therapy development and patient care ⁴

Background Endpoint Health

- A Palo Alto, CA (USA) based company developing personalized care solutions and targeted therapies for critically ill patients
- On 28 September 2020, Endpoint Health announced a partnership to create the world's first precision medicine clinical trial network focused on critical illness
- Idylla[™] Endpoint Test intended to be used in the network's first interventional trial

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About the Idylla[™] Endpoint test

- Rapid companion diagnostic test aimed at enabling targeted therapies and personalized care approaches in critical illness
- In addition to Biocartis' current infectious disease tests, the Idylla[™] SARS-CoV-2 Test⁵ and the SeptiCyte[®] RAPID⁶ on Idylla[™], the Idylla[™] Endpoint test is expected to guide the safe and effective use of novel therapies and improve routine care choices in critically ill patients

¹ A life-threatening condition resulting from fluid building up in the lungs of a patient, which restricts oxygen take-up and depriving organs of the oxygen they need to function; 2 The Lancet, https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(19)32989-7/fulltext, last consulted on 29 October 2020; 3 Paoli et al. Crit Care Med (2018): 46: 1889-1897 and https://journals.lww.com/comjournal/Fulltext/2020/03000/Sepsis_Among_Medicare_Beneficiaries_3_The.4.aspx, last consulted on 29 October 2020; 4 NCBI, https://www.ncbi.nlm.nin.gov/pmc/articles/PMC4968574/n, last consulted on 29 October 2020; 5 Submitted for Emergency Use Authorization (EUA) with the US FDA on 10 August 2020; 6 The Septic/te@ RAPID on Id/lammation in patients suspected of sepsis and provides actionable results in about one hour. Available to select countries within the EU and European region. Check availability with your local Biocartis representative.

$\mathsf{IDYLLA^{\mathsf{TM}}}\ INFECTIOUS\ DISEASE\ \mathsf{PIPELINE}$

Cartridge	Development	CE	USA	Japan	China	
SeptiCyte [®] RAPID on Idylla™		<u></u>	Regulatory process ongoing			Pandemic menu
Idylla™ SARS-CoV-2 Test			EUA pending			Pandemic menu
Idylla™ SARS-CoV-2/Flu/RSV Panel	Ongoing					
Idylla™ Endpoint test	Ongoing					
Syndromic panels						

Legend



RUO = Research Use Only, not for use in diagnostic procedures; CE = CE-marked IVD; EUA = Emergency Use Authorization. Source: US FDA website. The IdyllaTM development pipeline reflects the different cartridges and biomarkers in development, including cartridges that can be used for research applications. Please see here for more information about the respective studies, or to the specific product labeling for applicable intended use for each individual Biocartis product. Overview is subject to change in amongst others prioritization of test development by Biocartis and/or partners driven by commercial, partnering & operational considerations.

LEADING WITH A UNIQUE TECHNOLOGY AND OFFERING IN A FAST GROWING MARKET

- Poised for growth in oncology ready to scale
- Expansion plans to accelerate & deepen within oncology focus
- Confidence to broaden into infectious diseases, supported by maturing organizational strengths and strong partner network

Leading with a unique technology, a strong organization and a unique diverse offering in a dynamic & fast growing market





Idylla[™] partner and user testimonials

Herman Verrelst, CEO











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