The Information contains forward-looking statements. All statements other than statements of historical fact included in the Information are forward-looking statements. Forward-looking statements give the Company’s current expectations and projections relating to its financial condition, results of operations, plans, objectives, future performance and business. These statements may include, without limitation, any statements preceded by, followed by or including words such as “target,” “believe,” “expect,” “aim,” “intend,” “may,” “anticipate,” “estimate,” “plan,” “project,” “will,” “can have,” “likely,” “should,” “would,” “could” and other words and terms of similar meaning or the negative thereof. Such forward-looking statements involve known and unknown risks, uncertainties and other important factors beyond the Company’s control that could cause the Company’s actual results, performance or achievements to be materially different from the expected results, performance or achievements expressed or implied by such forward-looking statements. Such forward-looking statements are based on numerous assumptions regarding the Company’s present and future business strategies and the environment in which it will operate in the future. No representation, warranty or undertaking, express or implied, is made as to, and no reliance should be placed on, the fairness, accuracy, completeness or correctness of the Information or the opinions contained therein. The Information has not been independently verified and will not be updated. The Information, including but not limited to forward-looking statements, applies only as of the date of this document and is not intended to give any assurances as to future results. The Company expressly disclaims any obligation or undertaking to disseminate any updates or revisions to the Information, including any financial data or forward-looking statements, and will not publicly release any revisions it may make to the Information that may result from any change in the Company’s expectations, any change in events, conditions or circumstances on which these forward-looking statements are based, or other events or circumstances arising after the date of this document. Market data used in the Information not attributed to a specific source are estimates of the Company and have not been independently verified.
## COMPANY SNAPSHOT

**DiviTum®** — blood-based biomarker assay for measuring cancer cell proliferation
- Prognosis and treatment response monitoring in breast and other cancers
- Purpose is to enable better patient outcomes and improved health economics

**Extensive clinical validation in collaboration with world leading cancer centers**
- 22 studies with peer-reviewed publications — 2,867 patients
- 10 ongoing studies in collaboration with Johns Hopkins, Mayo Clinic, SWOG and more
- Strong support from Key Opinion Leaders across USA and Europe

**Progressing towards commercialization and large market potential**
- Upcoming FDA 510(k) submission (already CE-labelled)
- On pathway towards US launch, followed by EU-5, Nordics and Japan
- Market potential of 400-700 million USD in metastatic breast cancer

**Experienced team with a successful track record**
- Board of Directors and management team with vast experience of successful business development within the field of pharma and diagnostic area
# UPCOMING NEWS FLOW

<table>
<thead>
<tr>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1 – CLINICAL CANCER RESEARCH PUBLISHES RESULTS SUPPORTING DiviTum® AS A TECHNOLOGY FOR EARLY EVALUATION OF METASTATIC BREAST CANCER TREATMENT</td>
<td>Q1 – 510(k) APPROVAL</td>
</tr>
<tr>
<td>Q1 – POSITIVE RESULTS FROM SWEDISH STUDY WITH DiviTum® IN METASTATIC BREAST CANCER PUBLISHED IN PRESTIGIOUS JOURNAL</td>
<td>Q1 – US LAUNCH</td>
</tr>
<tr>
<td>Q2 – COLLABORATION WITH MAYO CLINIC INITIATED TO STUDY DIVITUM FOR ON-TREATMENT MONITORING OF METASTATIC BREAST CANCER PATIENTS RECEIVING CDK 4/6 INHIBITORS</td>
<td>1ST US REIMBURSEMENT</td>
</tr>
<tr>
<td>Q2 – DiviTum® &amp; TK ACTIVITY ACKNOWLEDGED IN RENOWNED JOURNALS</td>
<td>1ST EU-5 &amp; NORDIC LAUNCH</td>
</tr>
<tr>
<td>Q3 – FDA 510(k) SUBMISSION</td>
<td></td>
</tr>
<tr>
<td>Q4 – RESULTS FROM PIVOTAL CLINICAL VALIDATION STUDY</td>
<td></td>
</tr>
</tbody>
</table>
AGENDA

Innovative & proprietary diagnostic technology with clear value proposition

Strong clinical evidence for DiviTum®

Market potential & pathway towards commercialization

Summary

Appendix
UNMET NEEDS IN METASTATIC BREAST CANCER

- Many treatment options
- Efficacy evaluation
- Treatment resistance
- Time consuming diagnostics
UNMET NEED & POTENTIAL VALUE OF DiviTum® IN CLINICAL PRACTICE CONFIRMED BY EDITORIAL ARTICLES IN MAY 2020

The broad applicability of TK1 as a marker of prognosis and early resistance to a uniform regimen may represent an appealing clinical and research tool that can be generalized to a large population of patients.

– Dr. Amelia McCartney, Prato Hospital, Italy

DiviTum is the pioneering technology to document TK1a as a breast cancer biomarker to estimate prognosis and early recognition of treatment resistance that can be clinically very useful.

– Dr. Luca Malorni, Prato Hospital, Italy
DiviTum® — TREATMENT DECISIONS WITH GREATER CONFIDENCE

DiviTum® may enable determination of the efficacy of cancer therapy

DiviTum® measures cell growth rate...
- An innovative biomarker assay developed to provide prognosis and monitor therapy response in treatment of solid tumors
- Measures thymine kinase-I (TK) activity in blood serum. TK-activity is low in normal cells; high in cancer cells, providing a good biomarker for tumor aggressiveness

...and provides quick data on patient’s tumor response
- Cancers respond differently to different treatments. It is crucial to early on in the process get an insight in the patient’s treatment response
- DiviTum® provides clinicians with a diagnostic tool that quickly tells them whether the cancer responds to treatment

A regular measure of cell proliferation may detect changes early

DiviTum® may determine treatment response in 2-4 weeks; imaging, 2-4 months1,2


- Medical imaging primarily measures change in tumor size, a slow and expensive method to detect response.
- Other blood-based tests are not accurate enough for definitive decisions.3
- DiviTum® aims to help clinicians to evaluate the targeted treatment strategy much earlier than other diagnostic methods, resulting in an optimized treatment for each individual patient
AGENDA

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STRONG CLINICAL STUDY RESULTS FOR DiviTum® PEER-REVIEWED & PUBLISHED IN ONCOLOGY JOURNALS

- 22 published and peer-reviewed articles with DiviTum®
- Summary of results from articles:
  - Prognostic: risk for cancer recurrence, progression & survival
  - Monitoring: quick feedback on treatment efficacy

<table>
<thead>
<tr>
<th>Cancer area</th>
<th>Patients</th>
<th>No of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breast Cancer</td>
<td>1,065</td>
<td>11</td>
</tr>
<tr>
<td>Gastrointestinal</td>
<td>713</td>
<td>4</td>
</tr>
<tr>
<td>Lung Cancer</td>
<td>281</td>
<td>2</td>
</tr>
<tr>
<td>Blood Cancer</td>
<td>440</td>
<td>4</td>
</tr>
<tr>
<td>Other</td>
<td>368</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2,867</strong></td>
<td><strong>22</strong></td>
</tr>
</tbody>
</table>

Summary of clinical results available at [biovica.com](http://biovica.com).
DiviTum® – EXTENSIVE BREAST CANCER STUDY PROGRAMME

<table>
<thead>
<tr>
<th>Screening High risk</th>
<th>Early breast cancer Stage I-II</th>
<th>Locally advanced Stage III</th>
<th>Metastasized breast cancer Stage IV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CDK neoadjuvant, 2017</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Operable BC, SABCS 2019</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PREDIX, CDK, neoadj</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Published studies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Presented studies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ongoing studies</td>
<td></td>
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</tr>
</tbody>
</table>

- 10 clinical trials with > 1 800 patients successfully completed
- + 3 editorial articles summarizing the results and value of DiviTum
- Prognostic: recurrence, progression and survival
- Monitoring: quick feedback on treatment efficacy
SWOG’S S 0226 STUDY – THE BASIS FOR DiviTum®’s REGULATORY CLINICAL VALIDATION & USAGE

S 0226: Randomized Phase III study in postmenopausal women with metastatic breast cancer treated with 1st line endocrine therapies
- 707 patients in the US & Canada
- DiviTum study: ~400 patients with blood samples from 5 time points
- Hypotheses to support regulatory submission
  - Low TKa value is indicative that disease is not progressing soon
  - High TKa value is indicative that disease progression may soon be detectable by conventional measures

Source: Mehta R et al, NEJM 2019; 380(13):1226-1234
BROAD KEY OPINION LEADER SUPPORT – KEY TO CLINICAL ACCEPTANCE

Matthew P. Goetz  
M.D  
Mayo Clinic

Daniel F. Hayes  
M.D, Professor  
University of Michigan  
Ex. ASCO President  
SWOG Transl. Med.

Angelo Di Leo  
M.D, Ph.D  
Hospital of Prato  
IBCSG Exec. Committee  
BIG against BC Exec Board  
ESMO Lifetime Achievement

Martine J. Piccart  
M.D, Professor  
Université Libre de Bruxelles  
Founder Big against BC  
Ex. ESMO President

Vered Stearns  
M.D & Professor  
Johns Hopkins

Geoffrey Shapiro  
M.D, Ph.D  
Dana Farber

Jonas Bergh  
M.D, Professor  
Karolinska Institutet  
ESMO BC Award  
Ex Chairman SweBCG  
EMA Advisory Group  
Member Nobel Assembly

Luca Malorni  
M.D, Ass. Professor  
Hospital of Prato  
Baylor Collage

Matthew J. Ellis  
M.D, Professor  
Baylor Collage

William Gradishar  
M.D, Professor  
Northwestern Med.

Thomas Hatschek  
M.D, PhD  
Karolinska Institutet

Samuel Rotstein  
M.D, PhD  
Karolinska Sjukhuset

Richard Finn  
M.D, Ass. Professor  
UCLA

Cynthia X. Ma  
M.D, Professor  
Washington University

Henrik Lindman  
M.D, Ass. Professor  
Uppsala Universitet  
Vice Chairman SweBCG
AGENDA

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Market potential & pathway towards commercialization

Summary

Appendix
GEOGRAPHICAL ROLL-OUT PLAN & MARKET POTENTIAL FOR DiviTum® IN METASTATIC BREAST CANCER

1. US LAUNCH

CLINICAL USAGE & UPTAKE
Market potential: 200-350 mUSD

2. EU-5 & NORDICS

CLINICAL USAGE & UPTAKE
Market potential: 150-250 mUSD

3. JAPAN

CLINICAL USAGE & UPTAKE
Market potential: 50–100 mUSD

4. ROE & ROW

CLINICAL USAGE & UPTAKE
60% of breast cancer patients at lower price

TOTAL MARKET POTENTIAL

400-700 mUSD

Source: (1) Globocan 2018 and Biovica Market Research
THERE IS A NEED FOR EARLY, ACCURATE INSIGHT INTO THE EFFECT OF A CANCER TREATMENT – DiviTum® MAY PROVIDE THAT INSIGHT

• Assessment of disease progression is cumbersome and repetitive: opportunity to simplify and reduce
• Confidence and speed in therapy decision based on timely response monitoring.
• Improved workflow, cost management, and ultimately, patient’s outcome.

Cost and quality benefit for patients and payers from more personalized treatments and care plans.

Time is the patient’s most precious commodity - anything that helps to make the right decisions sooner and with more confidence is a plus.
METASTATIC BREAST CANCER EPIDEMIOLOGY/NEEDS IN THE US

57,000 NEW ARRIVALS AT METASTATIC BREAST CANCER (16,000 NEW DX, 41,000 RECURRENCES)

34,000 WITH DISEASE SUITABLE FOR ENDOCRINE-BASED THERAPIES (ET)

31,000 ARE POST-MENOPAUSAL (WITHIN SCOPE OF EXPECTED LABEL)

1st ET
Median treatment
25 months

2nd ET
Median treatment
10 months

3rd ET
Median treatment
<6 months

IMMEDIATE NEEDS

• More confidence that they are choosing the right treatment
• Faster decision making, anything that saves time
• Reduced number of diagnostic tests

DiviTum®'s POTENTIAL VALUE

• Longer time to cytotoxics (quality of life)
• Reduced out of pocket spend
• Simple, convenient disease monitoring
• Confidence
THE MEDIAN PATIENT & HOW TREATMENT IS CURRENTLY MONITORED

**MEDIAN PATIENT PROFILE**

- Female, mid 60s
- HR+ Metastatic breast cancer
- Recurrence from an early stage cancer
- Health status: generally good
- Time to 1st progression of disease: ~25 months
- Treatments: ~3 endocrine - based therapies (ET), then cytotoxics

**HOW TREATMENT IS CURRENTLY MONITORED**

- Complete blood CT
- Physical exam
- Liver function tests
- Symptoms
- CT scans
- Bone scans
- Tumor markers
- PET/CT scans

**Monitoring key questions:**

- **When to switch** from one ET* to the next
- **When to move** from ET* to cytotoxics or non-ET

**MULTIPLE TESTS REPEATED REGULARLY**

**INDIVIDUAL TESTS NOT ALWAYS DEFINITIVE**
<table>
<thead>
<tr>
<th>Q3</th>
<th>Q4</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Regulatory pathway</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analytical &amp; clinical validation</td>
<td></td>
<td></td>
<td></td>
<td><strong>SALES START</strong></td>
<td></td>
</tr>
</tbody>
</table>

| **Pivotal clinical study, other study results** |  |  |  |
| **Key scientific events** |  |  |  |

| **Digital/virtual activities** |
|                               |

| **Reimbursement strategy & execution** |
|                                       |

| **Value demonstration studies & guidelines** |
|                                           |

| **Commercial team development** |
|                               |
| **Regional managers, medical & marketing** |
FOCUS ON KEY CANCER CENTERS, REFERENCE LABS, IDNS & PAYERS

71 NCI-DESIGNATED CANCER CENTERS

MAJOR REFERENCE LABORATORIES

<table>
<thead>
<tr>
<th>Company</th>
<th># of labs</th>
<th>Oncology labs</th>
</tr>
</thead>
<tbody>
<tr>
<td>LabCorp</td>
<td>31</td>
<td>2</td>
</tr>
<tr>
<td>Quest Diagnostics</td>
<td>32</td>
<td>5</td>
</tr>
<tr>
<td>Sonic Healthcare</td>
<td>11</td>
<td>2</td>
</tr>
<tr>
<td>BioReference</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>Mayo Clinic Laboratories</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Alphoid Laboratories</td>
<td>11</td>
<td>1</td>
</tr>
<tr>
<td>NEO Diagnostics</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Cleveland Clinic Laboratories</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

IDNs/PAYERS

Kaiser Permanente
Geisinger Health Plan
UnitedHealthcare
Anthem

These will be customers and at the same time, partners
HYBRID MODEL OF SHARED RESPONSIBILITIES WITH PARTNERS

**BIOVICA CENTRAL TEAM**
- Marketing
- Medical Science
- Market Access

**BIOVICA TERRITORY MANAGEMENT**
- Manage the local ecosystem of stakeholders: key oncologists, labs, payers, patient advocates

**PARTNERS (UNDER DISCUSSION)**
- Provision of lab services
- Central support for pharma collaborations
- Involvement in clinical utility studies
- Further advancing the DiviTum science
VISION BEYOND 1ST LAUNCH: DEMONSTRATE CLINICAL UTILITY

Additional studies will provide evidence of:

1. The frequency of other monitoring tests may be reduced when used together with DiviTum®.

2. Adding DiviTum® to treatment monitoring may enable detection of progressive disease earlier and change in therapy.

3. DiviTum® may be more accurate in treatment monitoring than other blood-based tumor markers.

4. Adding DiviTum® to treatment monitoring may reduce overall cost of care and improve quality in relation to spend.
## US METASTATIC BREAST CANCER FORECAST MODEL & ASSUMPTIONS

<table>
<thead>
<tr>
<th>Defining the market opportunity</th>
<th>Assumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target population, new/year</td>
<td>31K new/year: women, postmenopausal, HR+/Her2-</td>
</tr>
<tr>
<td>Relevant treatment</td>
<td>3 lines of therapy/patient. DiviTum can start during care</td>
</tr>
<tr>
<td>Testing frequency</td>
<td>Baseline, monthly to month 6, X3 monthly thereafter</td>
</tr>
<tr>
<td>Test opportunities</td>
<td>~730,000 (initial opportunity, will grow with locally advanced expansion)</td>
</tr>
</tbody>
</table>

### Factors defining DiviTum volume uptake

| Lab coverage of the population                   | Rapid                                                                      |
| Reimbursement timing & coverage, risk sharing agreements | Dependent on price, test accuracy, clinical utility, price                |
| Physician uptake                                 | Dependent on accuracy and reimbursement coverage                          |
| Competitor share                                 | Launching after DiviTum                                                   |
| Pricing                                          | Preliminary research suggests $300-500/test                               |

<table>
<thead>
<tr>
<th>Year</th>
<th>Share of test opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>~15%</td>
</tr>
<tr>
<td>10</td>
<td>~50%</td>
</tr>
</tbody>
</table>
KEY SUCCESS FACTORS FOR US LAUNCH

• Demonstration of clinical and economic utility AND change to current practices.

• Collaboration on pricing and reimbursement with academics, payers and integrated delivery networks.

• A small, skilled Biovica commercial organization supports partners with data, messaging, and evidence of DiviTum®’s value to US healthcare
EUROPEAN LAUNCH IN METASTATIC BREAST CANCER STARTING Q3/Q4 2021 IN EU-5 & NORDICS

<table>
<thead>
<tr>
<th>Area</th>
<th>Assumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target market</td>
<td>Incidence 40k new/Y: women, postmenopausal, HR+/Her2-; 3 lines of therapy/patient. DiviTum® can start during care.</td>
</tr>
<tr>
<td>Testing frequency</td>
<td>Baseline, monthly to month 6, X3 monthly thereafter</td>
</tr>
<tr>
<td>Test opportunities</td>
<td>945,000 per year (EU-5 &amp; Nordics) (Rest of Europe: 730,000 tests/year)</td>
</tr>
</tbody>
</table>

LAUNCH STRATEGY

- Use learnings from US launch
- Adapt and customize to fit specifics of individual country health systems
- Rely strongly on local partner collaborations for distribution and national marketing

PRICING PER TEST

- Preliminary research suggested 150-250 USD/test
- Test accuracy, results of clinical utility studies and negotiations with payers will determine the final outcome

Regulatory: DiviTum® assay is already CE-labelled
LARGE POTENTIAL TO EXPAND OUTSIDE INITIAL MARKETS & APPLICATIONS

Near term market expansion:
• Locally advanced breast cancer, which adds an additional 30-40% potential on existing markets
• Geographic expansion MBC Rest of Europe and Rest of World

Medium term expansion:
Prevalent population of certain cancers
– Gastrointestinal cancer (7.7 M people)
– Lung cancer (2.2 M people)
– Prostate cancer (3.9 M people)

CAGR: 5% patient growth 2012-2018

Source: Globocan 2018 5-year prevalence
AGENDA

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Strong clinical evidence for DiviTum®

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Appendix
<table>
<thead>
<tr>
<th>Year</th>
<th>Events</th>
</tr>
</thead>
</table>
| 2020 | Q1 – CLINICAL CANCER RESEARCH PUBLISHES RESULTS SUPPORTING DiviTum® AS A TECHNOLOGY FOR EARLY EVALUATION OF METASTATIC BREAST CANCER TREATMENT  
Q1 – POSITIVE RESULTS FROM SWEDISH STUDY WITH DiviTum® IN METASTATIC BREAST CANCER PUBLISHED IN PRESTIGIOUS JOURNAL  
Q2 – COLLABORATION WITH MAYO CLINIC INITIATED TO STUDY DIVITUM FOR ON-TREATMENT MONITORING OF METASTATIC BREAST CANCER PATIENTS RECEIVING CDK 4/6 INHIBITORS  
Q2 – DiviTum® & TK ACTIVITY ACKNOWLEDGED IN RENOWNED JOURNALS  
Q3 – FDA 510(k) SUBMISSION  
Q4 – RESULTS FROM PIVOTAL CLINICAL VALIDATION STUDY |
| 2021 | Q1 – 510(k) APPROVAL  
Q1 – US LAUNCH  
1ST US REIMBURSEMENT  
1ST EU-5 & NORDIC LAUNCH |
COMPANY SNAPSHOT

DiviTum® – blood-based biomarker assay for measuring cancer cell proliferation
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Extensive clinical validation in collaboration world leading cancer centers
- 22 studies with peer-reviewed publications – 2,867 patients
- 10 ongoing studies in collaboration with Johns Hopkins, Mayo Clinic, SWOG and more
- Strong support from Key Opinion Leaders across USA and Europe

Progressing towards commercialization and large market potential
- Upcoming FDA 510(k) submission (already CE-labelled)
- On pathway towards US launch, followed by EU-5, Nordics and Japan
- Market potential of 400-700 million USD in metastatic breast cancer

Experienced team with a successful track record
- Board of Directors and management team with vast experience of successful business development within the field of pharma and diagnostic area
AGENDA

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Appendix
RELEVANT LINKS & RESOURCES

Capital Markets Day 11 May 2020
https://biovica.com/investor-relations/events/

Shareholder List
https://biovica.com/investor-relations/shareholders/

DiviTum® Publications
https://biovica.com/divitum/publications/

DiviTum® and Breast Cancer
https://www.youtube.com/watch?v=ulI-JCdvMIk
BOARD OF DIRECTORS

Lars Holmqvist
Chairman
Holdings: 410,630 B-shares, 50,000 warrants

Henrik Osvald
Board Member
Holdings: 474,106 B-shares, 25,000 warrants

Maria Holmlund
Board Member
Holdings: 9,750 B-shares, 25,000 warrants

Jarl Ulf Jungnelius
Board Member
Holdings: 25,000 warrants

Jesper Söderqvist
Board Member
Holdings: 41,085 A-shares, 38,200 B-shares, 45,000 warrants

Anders Rylander
Board Member & CEO
Holdings: 3,575,640 A-shares, 368,956 B-shares, 20,000 warrants
MANAGEMENT TEAM

Anders Rylander
CEO
Holdings: 3,575,640 A-shares, 379,756 B-shares, 20,000 warrants

Cecilia Driving
EVP CFO/HR/IR
Holdings: 10,000 B-shares, 40,000 warrants

Otti Bengtsson Gref
R&D Director
Holdings: 20,000 warrants

Henrik Winther, Ph.D
SVP Business Development
Holdings: 20,000 warrants

Robert Dann
SVP Marketing, US Business
Holdings: 20,000 B-shares

Wing Cheng, Ph.D
Market Access & QA Director
Holdings: 3,700 B-shares, 40,000 warrants
Specific drugs induce cell cycle arrest at the G1/S checkpoint. Since TKa is expressed downstream of the G1/S checkpoint, successful cell cycle inhibition can be detected as changed levels of TKa.
UNIQUE PROPRIETARY TECHNOLOGY TO DETERMINE CELL PROLIFERATION

**DiviTum® measures and analyses the enzymatic activity of TK**

**Detection of TK activity**

- Analysis is performed using a 96-well microtiter plate
- A sample is incubated with a substrate; BrdU (a thymidine analogue) and a phosphate donor; ATP
- If Thymidine Kinase activity (TKa) is present in the sample it will phosphorylate BrdU, forming BrdUMP (BrdU-monophosphate)
- Additional phosphorylation steps will form BrdUTP (BrdU-triphosphate)
- A set of reference samples with known TK activity (Calibrators), as well as three controls (low, middle, high) are added to the plate for each run
- The Calibrators are used for determining the TK activity in the sample

- Formed BrdUTP is incorporated via a DNA polymerase into polynucleotide strands attached to the microtiter plate. Non-bound components are washed away
- The incorporated BrdUTP is quantified using a BrdU antibody conjugated with AP (alkaline phosphatase). Non-bound antibodies are washed away
- Incubation with a substrate for AP will turn the substrate color from colorless to yellow. The change in color (absorbance) is determined using a spectrophotometer
- The color developed is proportional to the amount of BrdUMP formed by TK, which is proportional to the initial TK activity in the sample
QUICK NON-INVASIVE TEST PERFORMED DURING ROUTINE BLOOD TESTS

IMPLEMENTATION OF BIOVICA’S TEST

1. Blood sample is drawn from the patient
2. Serum samples are mixed and incubated with a reaction mix in a 96-well microplate
3. The plate is washed using an ELISA microplate washer
4. The plate is washed using an ELISA microplate washer
5. Incubation with anti-BrdU antibodies
6. Incubation with anti-BrdU antibodies
7. Following another wash, the plate is incubated with a Substrate

Additional enzymatic steps form a DNA strand of the phosphorylated BrdU molecules

MEASUREMENT OF TK-AKTIVITY

1. Absorbance is measured using an ELISA microplate reader (spectrophotometer)
2. TK activity is calculated
3. The Oncologist gets the result and can evaluate the response to therapy

Additional enzymatic steps form a DNA strand of the phosphorylated BrdU molecules

The thymidine kinase (TK) in serum phosphorylates the thymidine analogue BrdU

Serum is separated

The Oncologist gets the result and can evaluate the response to therapy

Blood sample is drawn from the patient

The thymidine kinase (TK) in serum phosphorylates the thymidine analogue BrdU

Additional enzymatic steps form a DNA strand of the phosphorylated BrdU molecules

With antibodies, the amount of BrdU DNA formed is determined and the TK activity can be calculated

TK activity is calculated

The Oncologist gets the result and can evaluate the response to therapy
BREAST CANCER PATIENT JOURNEY – DiviTum®’s POTENTIAL

Screening

Self diagnosis

Triple-test diagnostics

Diagnosis

Benign / Healthy

Early (Stage I & II)

Locally advanced (Stage III)

Metastatic (Stadium IV)

Regimens
BREAST CANCER PATIENT JOURNEY – DiviTum®'s POTENTIAL

**Early (Stage I)**
- Pre surgery treatment

**Early (Stage II)**
- Surgery
- Post surgery treatment
- Control
- Cure
  - Recurrence

**Locally advanced (Stage III)**
- 1st line treatment
- 2nd line treatment
- 3rd line treatment
- n line treatment
- Palliative care

**Metastatic (Stage IV)**
- Cure
- Recurrence
CDx TEST ASSURES SAFE & EFFECTIVE USE OF A PHARMACEUTICAL DRUG

CDx test for patient selection:

Selecting

CDx Test

Looking for patients eligible for drug D treatment

Breast Cancer Patients (with different biomarker profiles)

Diagnostic Positive

Treat with drug D

Diagnostic Negative

Do not treat with drug D

CDx test for patient monitoring:

Monitoring

CDx Test

Measuring if therapy still has effect

Patients treated with drug D

Test Positive

Stay on same drug D (continued response to drug D)

Test Negative

Switch to new drug (drug resistance to drug D)
DiviTum® ASSAY HAS A BROAD PLAYING-FIELD AS PROGNOSTIC, MONITORING & COMPANION DIAGNOSTIC DEVICES

PATIENT FLOW

Diagnose → Treat → Monitor → Adjusted Treatment

KEY PLAYERS

Diagnostic Companies → CDx → Pharma

A SIMPLE BLOOD TEST

BIOVICA → CDx → Pharma
PHARMA NEEDS MONITORING CDx (MDx) AS A DRUG BRAND DIFFERENTIATOR

• The MDx increases the safety and efficacy of the Rx and hence differentiates it from any similar drug by:
  
  • Cut-off tied to one specific drug – i.e. based on clinical samples from patients receiving one specific drug
  
  • Being recommended by oncologists/KOL’s – more patients will be transferred to the safer drug/treatment
  
  • Oncologist prefer blood-test over imaging (earlier, easier, safer)
  
  • Reimbursed test - CDx/MDx easier to achieve reimbursement
  
• MDx testing allows for a higher price on the Rx, because the drug will only be used when it is safe and effective to use – avoidance of futile therapy/side-effects
EXPANDING THE DiviTum® MARKET POTENTIAL BY ADDING MORE CLINICAL UTILITY

Positive feed-back loop

DiviTum® Classic Dx:
- Broad cancer-diagnostic field:
  - prognostic
  - monitoring for disease progression

DiviTum® CDx/MDx:
- Cancer-drug field:
  - monitoring the effect of specific drugs

REVENUE COMPONENT

1. **Dx Products Sales**

2. **Fee-for-Services** based on time (hourly rate) and materials

3. **Product Sales** in drug markets

4. - On-boarding additional laboratories running Biovica test solutions
   - Pharma support/funding of Biovica product commercialization
ADDITIONAL MARKET POTENTIAL FOR DiviTum® AS A CDx/MDx-DEVICE

Fee-for-Service (FFS) Revenue

Product Sales Focus

CDx/MDx products supporting/accompanying therapeutic drugs targeting tumor cell proliferation

<table>
<thead>
<tr>
<th>DRUG Mode-of-Action</th>
<th>Potential Collaborators</th>
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<tbody>
<tr>
<td>CDK 4/6 inhibitors</td>
<td>Pfizer; Novartis; Eli Lilly</td>
</tr>
<tr>
<td>MEK inhibitors</td>
<td>GSK; Roche; Pfizer; AZ</td>
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<tr>
<td>PI3K/TK inhibitors</td>
<td>Novartis; Gilead</td>
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<tr>
<td>SERD’s/SERM’s</td>
<td>AZ; GNE; Novartis</td>
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1*During development, registration and commercialization of CDx/MDx
Based on inhouse/empirical data (project hrs; hourly rates; materials; services; registration fees)*

2*For the monitoring of response to treatment and early detection of disease progression/switch in therapy*
CDx OPPORTUNITY IN SUMMARY

• Improves patient care by allowing for a more safe and effective use of targeted treatments

• Synergistic with Biovica “core business”

• Self-funded/Pharma sponsored

• High value reimbursed products