A PERFECT MATCH WITH NGS
THE IDYLLA™ PLATFORM
Despite the clear advantages of comprehensive molecular profiling by next-generation sequencing (NGS), the associated testing complexity often translates into long turnaround times (TAT). Rapid mutation assessment through alternate methods remains critical for key genomic alterations. The Idylla™ system facilitates ultra-rapid assessment of key molecular markers which can be seamlessly integrated into virtually any laboratory workflow and used concurrently with NGS.

**CURRENT MOLECULAR TESTING OPTIONS IN ONCOLOGY**

**NGS WORKFLOW**

- NUCLEIC ACID ISOLATION, QUANTIFICATION AND QC
- LIBRARY PREPARATION
- SEQUENCING
- DATA ANALYSIS
- Up to 3 weeks
- REPORT

**CONVENTIONAL PCR WORKFLOW**

- SAMPLE PREPARATION
- NUCLEIC ACID ISOLATION, QUANTIFICATION AND QC
- PCR
- Up to 7 days
- REPORT

**IDYLLA™ WORKFLOW**

- FULLY AUTOMATED ANALYSIS
- 1-2 days
- REPORT

**THE BEST OF BOTH WORLDS: ULTRA-RAPID RESULTS OF MOST COMMON MUTATIONS COMBINED WITH COMPREHENSIVE MOLECULAR PROFILING**

**NGS**

- NUCLEIC ACID ISOLATION, QUANTIFICATION AND QC
- LIBRARY PREPARATION
- SEQUENCING
- DATA ANALYSIS
- REPORT

**IDYLLA™**

- SAMPLE PREPARATION
- FULLY AUTOMATED ANALYSIS
- REPORT
**OPTIMIZED TESTING EFFICIENCY IN LARGE LABORATORY SETTINGS - REAL WORLD EXAMPLES**

### LUNG CANCER TESTING IN A LARGE ACADEMIC CENTER, NEW YORK, NY

<table>
<thead>
<tr>
<th>PAST</th>
<th>ALL ADENOCARCINOMA SAMPLES</th>
<th>IHC → EGFR L858R, ALK MULTIPLEX SIZING ASSAYS → INDELS DIGITAL PCR → EGFR T790M</th>
<th>IN-HOUSE NGS MULTIGENE PANEL</th>
<th>9 days</th>
<th>REPORT</th>
<th>3 weeks</th>
<th>REPORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOW</td>
<td>ALL ADENOCARCINOMA SAMPLES</td>
<td>IHC → ALK, ROS, PD-L1 → idylla → EGFR</td>
<td>IN-HOUSE NGS MULTIGENE PANEL</td>
<td>1-3 days</td>
<td>REPORT</td>
<td>3 weeks</td>
<td>REPORT</td>
</tr>
</tbody>
</table>

**IDYLLA™ IMPACT**
- Turnaround time for rapid EGFR testing reduced from 9 days to 1-3 days
- Simple workflow allows implementation of ultra-rapid testing solution without requiring additional resources
- Flexible platform is able to handle the variety of different sample types coming into the lab
- Use of minimal material allows further testing by NGS assays

### CRC TESTING IN A LARGE LABORATORY, DANVILLE, PA

<table>
<thead>
<tr>
<th>PAST</th>
<th>NON-LYNCH CRC SAMPLES</th>
<th>IN-HOUSE KRAS SINGLE GENE TESTING</th>
<th>SEND-OUT NRAS/BRAF OR NGS MULTIGENE PANEL</th>
<th>2-7 days</th>
<th>REPORT</th>
<th>5-21 days</th>
<th>REPORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOW</td>
<td>NON-LYNCH CRC SAMPLES</td>
<td>SEND-OUT RAS, BRAF</td>
<td>SEND-OUT NGS MULTIGENE PANEL</td>
<td>1 day</td>
<td>REPORT</td>
<td>10-21 days</td>
<td>REPORT</td>
</tr>
</tbody>
</table>

**IDYLLA™ IMPACT**
- Turnaround time for RAS/BRAF testing reduced from 4-7 days to 1-2 days
- 1 FTE freed up due to full-automated testing nature
- Internal test menu expanded
IDYLLA™ AND NGS - A PERFECT MATCH

REDUCED TIME TO RESULT FOR KEY BIOMARKERS
• On demand testing with short assay turnaround times
• Minimal sample manipulation

MINIMAL ADDITIONAL RESOURCES NEEDED
• Fully automated walk-away system
• Only 2 min hands-on time per sample

REDUCED COST
• Cost-effective even for smaller sample volumes, no batching needed
• Only a subset of samples has to be reflexed to NGS

MINIMAL SAMPLE REQUIREMENTS & VERSATILE SAMPLE TYPES
• Various types possible, including FFPE, fresh tissue, plasma, DNA
• Reliable results even for small & challenging samples

REFERENCES

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