Safe harbor

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The Adaptive Immune System

Nature’s most finely tuned diagnostic

Detects & treats most diseases in exactly the same way

LYMPHOID CANCERS
AUTOIMMUNE DISORDERS
CNS DISORDERS
INFECTION DISEASE
SOLID TUMORS
Translating the genetics of immune system into clinical products

One immune medicine platform

Synergistic interplay with 3 business areas

High margin, immune driven research and clinical products

Clinical Diagnostics

Immune Receptor Data

Drug Discovery

Life Science Research

Pipeline

Commercial

Life Science Research

Clinical Diagnostics

Drug Discovery

ImmunoSEQ

clonoSEQ

MRD Monitoring

Diagnose disease by the immune system

Genentech

Microsoft

CELLULAR THERAPIES

AMGEN

ANTIBODY DISCOVERY
ADPT in context of “liquid biopsy”

<table>
<thead>
<tr>
<th>Current Applications of Liquid Biopsy</th>
<th>Adaptive’s Approach</th>
</tr>
</thead>
<tbody>
<tr>
<td>Look for tumor DNA circulating in blood</td>
<td>Identify/count T and B cells in blood and other tissues</td>
</tr>
<tr>
<td>Detect cancer earlier (mostly solid tumors)</td>
<td>immunoSEQ Dx</td>
</tr>
<tr>
<td>Monitor MRD for solid tumors</td>
<td>T cell-based test for early and accurate detection of many diseases from a blood sample</td>
</tr>
<tr>
<td></td>
<td>clonoSEQ</td>
</tr>
<tr>
<td></td>
<td>B and T cell-based test to monitor MRD for lymphoid cancers (myeloma, ALL, CLL, NHL) in blood and other sample types</td>
</tr>
</tbody>
</table>
clonoSEQ: monitoring MRD in blood cancer with unmatched accuracy

The technology

- Deep sensitivity
- Precise specificity
- Robust validation

Positioned to capture market share

- Strong IP
- Significant evidence base
- FDA cleared
- Widely reimbursed
- Adopted by experts
- Entrenched in drug development
Key Growth Levers

1. Expand utilization in blood
2. Grow evidence to support adoption across indications
3. Increase payer coverage
4. Increase # of tests per patient
5. Expand globally

Path to access 4.6M patients
clonoSEQ MRD testing opportunity in blood is nascent but promising

**ALL in Blood**
- MRD positivity in blood highly correlated with positivity in bone marrow (BM)\(^1\)

**CLL in Blood**
- Disease burden similar in blood and BM, making blood a reasonable substitute for MRD assessment in BM\(^2\)

---

**Sensitivity of clonoSEQ enables superior prediction of relapse in blood compared to flow cytometry in marrow**

**MRD status significantly associated with clinical outcomes in both blood and BM**

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\(^1\) Pulsipher et al, Blood (2018)

\(^2\) clonoSEQ® Technical summary, Seattle, WA: Adaptive Biotechnologies Corporation; 2020. Based on data from Genentech’s CLL14 study
immunoSEQ Dx: diagnostic answers for multiple diseases at the same time

Solving a large but tractable problem with machine learning

- Map trillions of TCRs to millions of clinically-relevant antigens of disease

Unleashing the potential to solve the "diagnostic odyssey"

1. Improve SOC Dx
2. Differential Diagnosis
3. Population Immunomics

<table>
<thead>
<tr>
<th>TCRs</th>
<th>Antigens</th>
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<tbody>
<tr>
<td>Lyme disease</td>
<td></td>
</tr>
<tr>
<td>CMV</td>
<td></td>
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<tr>
<td>Celiac disease</td>
<td></td>
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<tr>
<td>T1D</td>
<td></td>
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<tr>
<td>Ovarian cancer</td>
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<tr>
<td>Pancreatic cancer</td>
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</tbody>
</table>
T cells have potential to resolve diagnostic challenges in many diseases

### Why T – Cells Matter
- **Disease-specific**
- **Persistent**
- **Systemic**
- **Signals appear early**
- **COVID specific:**
  May hold information about potential pre-existing immunity and/or vaccine response/disease severity

### First T-cell based diagnostic

**T-Detect → better results versus current serology**

**immunoSEQ Dx SARS-CoV-2**
- To be launched Fall 2020
- Head to Head data:

<table>
<thead>
<tr>
<th></th>
<th>T-DETECT</th>
<th>Multi-serology</th>
<th>IgG serology</th>
</tr>
</thead>
<tbody>
<tr>
<td>99.8% specificity</td>
<td>94% positive</td>
<td>90% positive</td>
<td>87% positive</td>
</tr>
</tbody>
</table>

**immunoSEQ Dx LYME**
- To be launched in 2021
- Preliminary results demonstrate 2x sensitivity over current SOC serology tests.
immunoSEQ Dx: Disease selection & research stages through R&D pipeline

**STAGE I**
Prioritize Diseases
- Market Opportunity
- immunoSEQ Dx Fit
- 5 indications

**STAGE II**
Prepare for Modeling
- Sequence Samples
- Analyze Meta-Data
- 4 indications

**STAGE III**
Identify Initial Signal
- Achieve Initial Signal
- Complete Product Profile
- Ovarian Cancer
- 4 add’l indications

**STAGE IV**
Develop Clinical Algo
- Generate MVP Algorithm
- Validate Commercial
- Celiac Disease

**STAGE V**
Finalize Algo for Dev
- Lock Algorithm
- Begin Assay Development
- SARS-CoV-2
- Lyme Disease

immunoSEQ Dx → one blood sample could become the ultimate liquid biopsy for ANY disease