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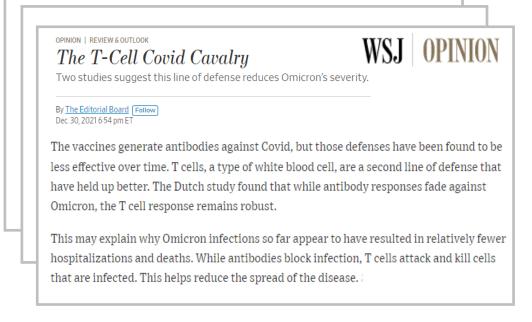
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#### T-cells taking center role in immunity to COVID-19

"Our findings underscore the fact that we need to look at **T cells**, not just antibodies, if we want a **complete picture** of the vaccine response for those who have not had COVID-19 and for those who have recovered from the disease," **-E. John Wherry**, **PhD**, Perelman School of Medicine at the University of Pennsylvania.









#### **Key Catalysts 2022 -- Multiple levers to drive value**

# **Immune Medicine**

- **T-Detect COVID**: Enhance product profile (semi-quant data, correlate of protection)
- **T-Detect AI**: Increase sensitivity/specificity in MS, IBD, RA for market readiness
- GNE collaboration:
  - Advance lead shared candidate to development
  - Deliver 2 fully characterized additional shared candidates
  - Develop private product prototype
- Nykode collaboration: phase 1/2 data

## **MRD**

- Obtain Medicare coverage of DLBCL
- Read-out data for use in blood in MM/DLBCL
- Expand adoption of MRD status as a co-/primary clinical endpoint



## Using the immune system as the source-code for immune medicine



#### **Business areas of focus**

#### **Immune Medicine**

Driven by immune receptor data opportunities

TAM ~\$48B\*



#### **MRD**

Driven by clonoSEQ/MRD assay applications

TAM ~\$6B

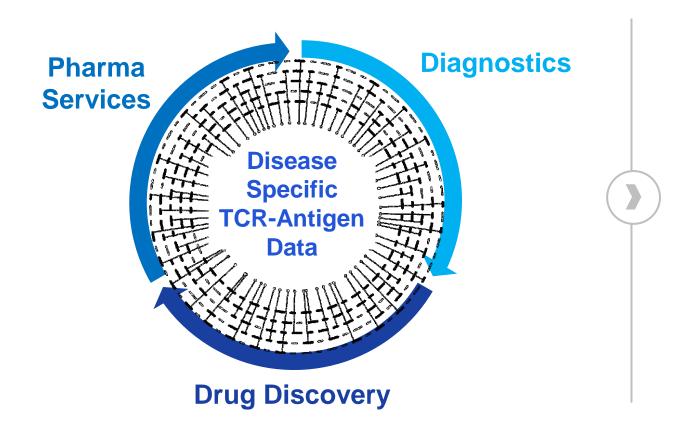




<sup>\*</sup> Illustrative TAM for 3 indications for T-Detect (one infectious disease, one autoimmune disease, one oncology) and drug discovery in cell therapy oncology



#### Unique ability to map & identify disease specific TCR sequences



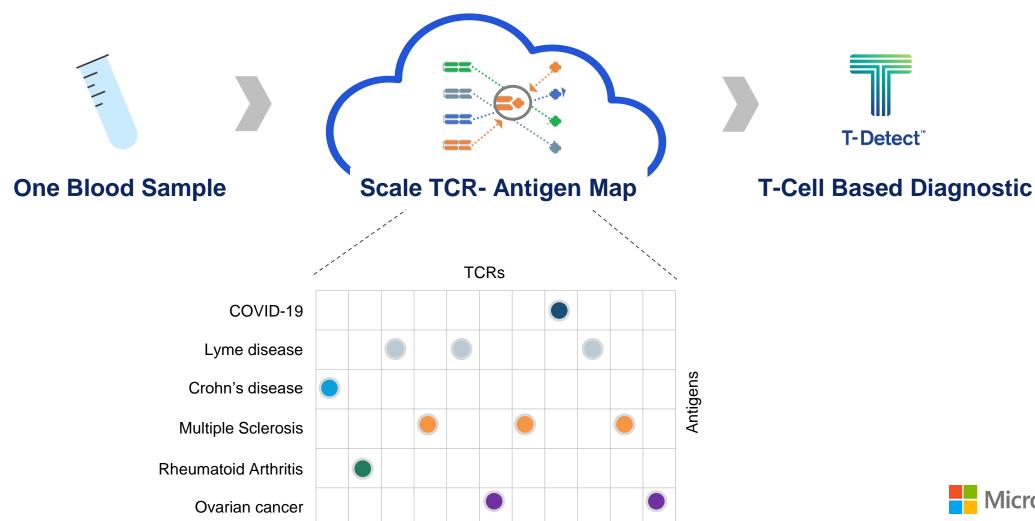
## Immune Medicine Strategy

Create multiple value opportunities stemming from the same core disease data





## T-Detect: one blood test that reads T cells to diagnose many diseases



#### **T-Detect most advanced indications**

#### **COVID**



**Only** FDA authorized test

Medicare **coverage** for immunocompromised patients

#### **AUTOIMMUNE**



Clinical signals in **five** diseases

Crohn's, colitis, celiac, MS, RA

#### **LYME**



Study Completed

Lyme season readiness

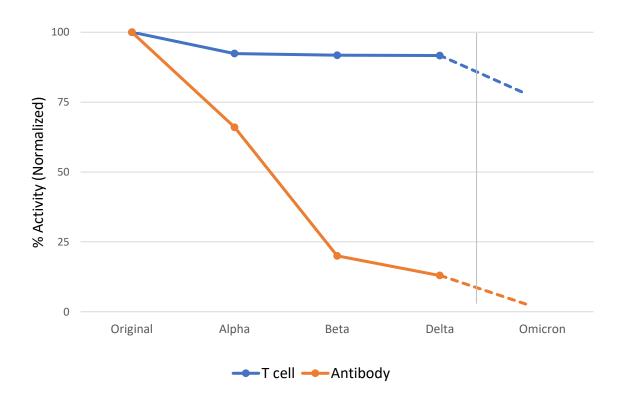


#### T-cells correlate with real world vaccine efficacy

#### **Impact of Variants on Vaccine Response**

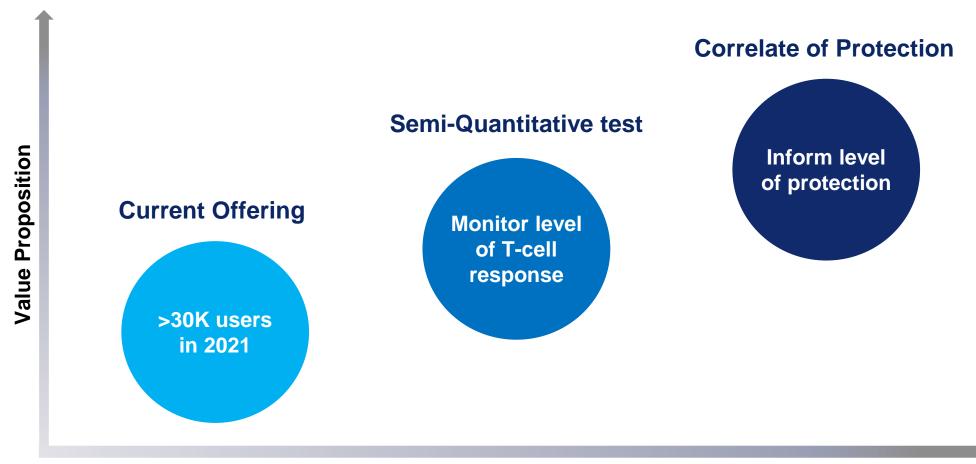
## 100 75 % Efficacy 25 Original Alpha Beta Delta ---From Infection From Symptomatic/Severe Disease

#### **Impact of Variants on Immune Response**





## **Increasing utility of T-Detect COVID**



Time & Complexity (2022)



#### **Developing T-Detect Autoimmune: a multi-disease blood test**

#### Why Autoimmune Disorders?

#### T- Cells

- Highly disease specific
- Mechanistic linkage

#### **T-Detect**

- Molecular, blood-based test
- FDA authorized for COVID-19
- Same technology for all indications

#### Advancing multiple signals in parallel

All indications at high specificity

Sensitivity	Signal	20-45%	45-70%	>70%
lleal Crohn's	confirmed			<b>Ø</b>
Colonic Crohn's	identified			
Colitis	identified			
Celiac	confirmed			
MS	confirmed			
RA	identified	<b>Ø</b>		





## Using the immune system to develop differentiated therapeutics

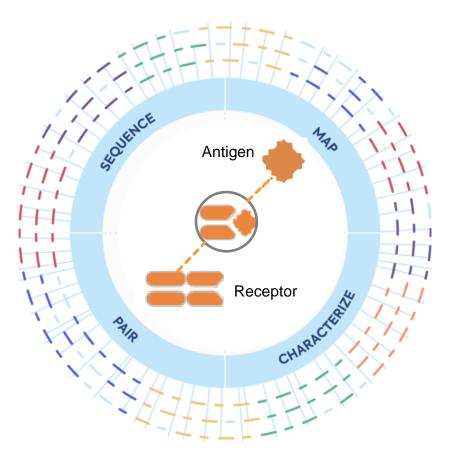
#### **IMMUNE MEDICINE PLATFORM**



#### **3 DRUG MODALITIES**



#### **THERAPEUTICS**





T-cell Therapeutics



T-cell based Vaccines



**Antibodies** 

**Drug Discovery** 



Novel targets and targeting molecules



## **Robust Drug Discovery pipeline**





## **MRD**

## Our MRD Heme business: synergistic value of pharma and clinical diagnostic



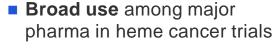
- FDA cleared in MM, ALL (BM\*) and CLL (BM\*, blood)
- Broad coverage: >240M lives
- Widely adopted: Clinical use in all 31 NCCN centers



 Pharma supports lifecycle expansion which drives clinical use

 Clinical usage drives inclusion as an endpoint in pharma trials





- Adopted by >40 biopharma companies
- >\$330M in future regulatory milestones





#### MRD has evolved into an essential clinical decision-making tool

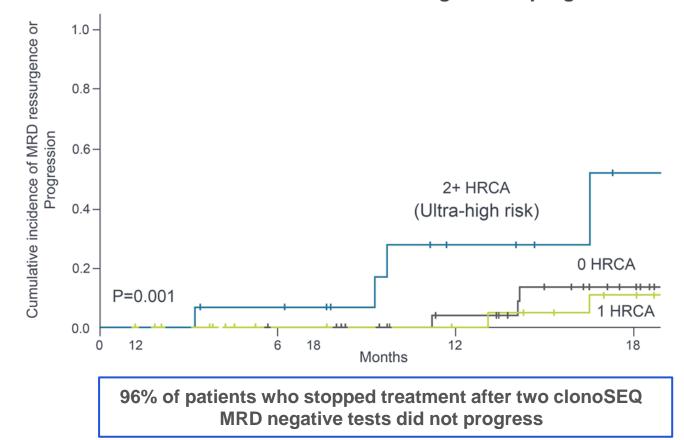
#### **MASTER trial**

**Cumulative incidence of MRD resurgence or progression** 

**Assess response to therapy** 

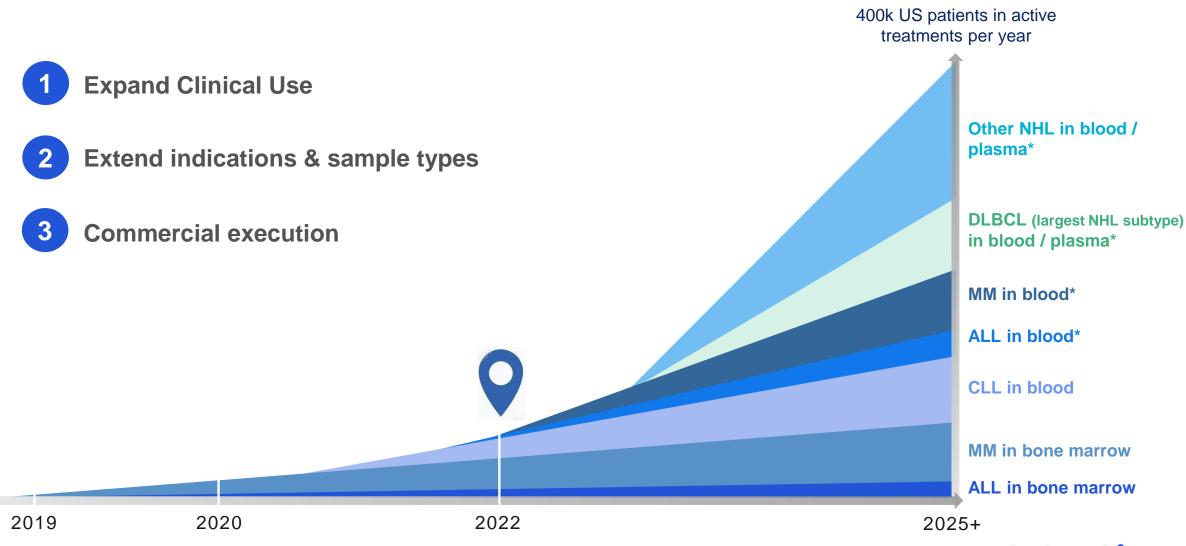
**Escalate/de-escalate therapy** 

**Detect relapse early** 





## MRD business growth drivers





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