

scipher
MEDICINE

TM

Scipher team



Paige Nardi
Executive Director,
Market Access



Erin Connolly-Strong, PhD
Head of Medical Affairs



Company size:
100+ employees

Locations:
→ Waltham, MA
→ Durham, NC

- Founded by world leaders in medicine and physics from Harvard, Northeastern, and Brigham and Women's Hospital
- Proprietary intellectual property licensed from Northeastern University
- Financials: Successful completion of series A, B and C funding

August 2020



PrismRA is launched

A molecular signature test that identifies inadequate responders to TNFi therapy prior to rheumatoid arthritis treatment – helping patients instead begin a therapy more aligned to their unique biology



Scipher future focus: Launching test across drug classes and autoimmune diseases

PrismCD | Crohn's Disease

PrismMS | Multiple Sclerosis

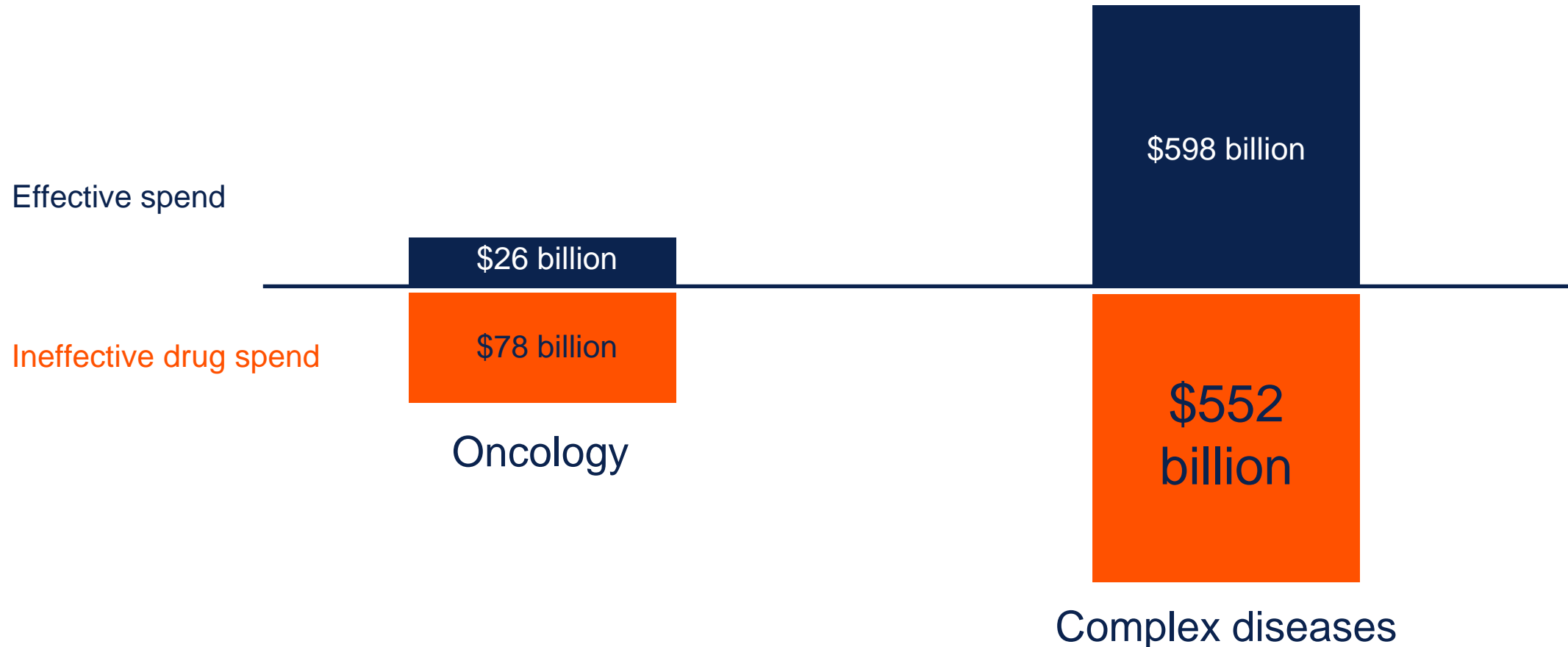
PrismPS | Psoriatic arthritis/psoriasis

PrismUC | Ulcerative Colitis

PrismRA 2.0 (JAK) | Rheumatoid Arthritis

PrismRA (TNFi) | Rheumatoid Arthritis

\$552 billion in drug spend wasted in complex diseases every year



10x larger problem in complex diseases compared to oncology

Drugs are failing most autoimmune disease patients

Tumor necrosis factor- α inhibitors (TNFi) therapy:

Humira[®], Enbrel[®], Remicade[®], Cimzia[®], Inflectra[®], Simponi[®], and Simponi Aria[®]

 **\$33B**

annual sales of TNF inhibitor therapy,
the world's largest selling drug class¹



2 in 3 

biologic-naïve RA patients on TNF inhibitor therapy
have an inadequate response to treatment²

 **188%**

increase in TNF inhibitor therapy
spend from 2012 to 2019³



0% 

change in drug response rates²

1) Humphreys A. Top 200 medicines annual report 2019: the king of medicines. <https://www.pharmalive.com/top-200-medicines-annual-report-2019-the-king-of-medicines>. <accessed August 1, 2020>.

2) Package inserts from approved therapies.

3) Bowen K and Gleason PP. Prevalence and Cost of Autoimmune Specialty Drug Use by Indication in a 4.4 Million Member Commercially Insured Population. Prime Therapeutics LLC and Scipher internal analysis.



PrismRA[®] Overview

PrismRA[®] molecular signature response classifier test

First predictive laboratory test for the treatment of **rheumatoid arthritis**



- Intended for use when starting or changing targeted RA therapies in patients
- Next-generation sequencing test that uses a routine blood sample
- Patient only needs test **once in lifetime** blood sample

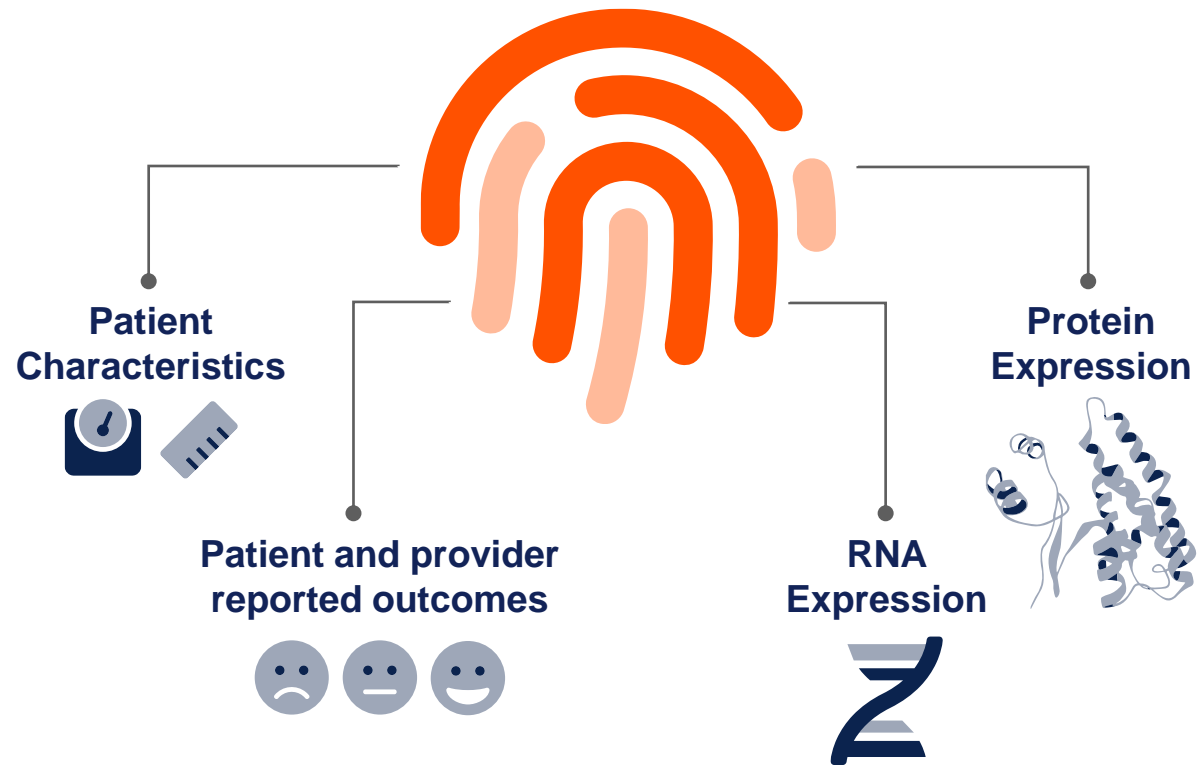
Scipher technology

What is a molecular signature?

Like fingerprints, molecular signatures are unique.

They reveal how diseases affect each patient differently. A molecular signature combines a set of biological features to capture an individual's genetic makeup and disease behavior.¹⁻³ These features include RNA, proteins, and other features that reflect a patient's distinctive disease biology.

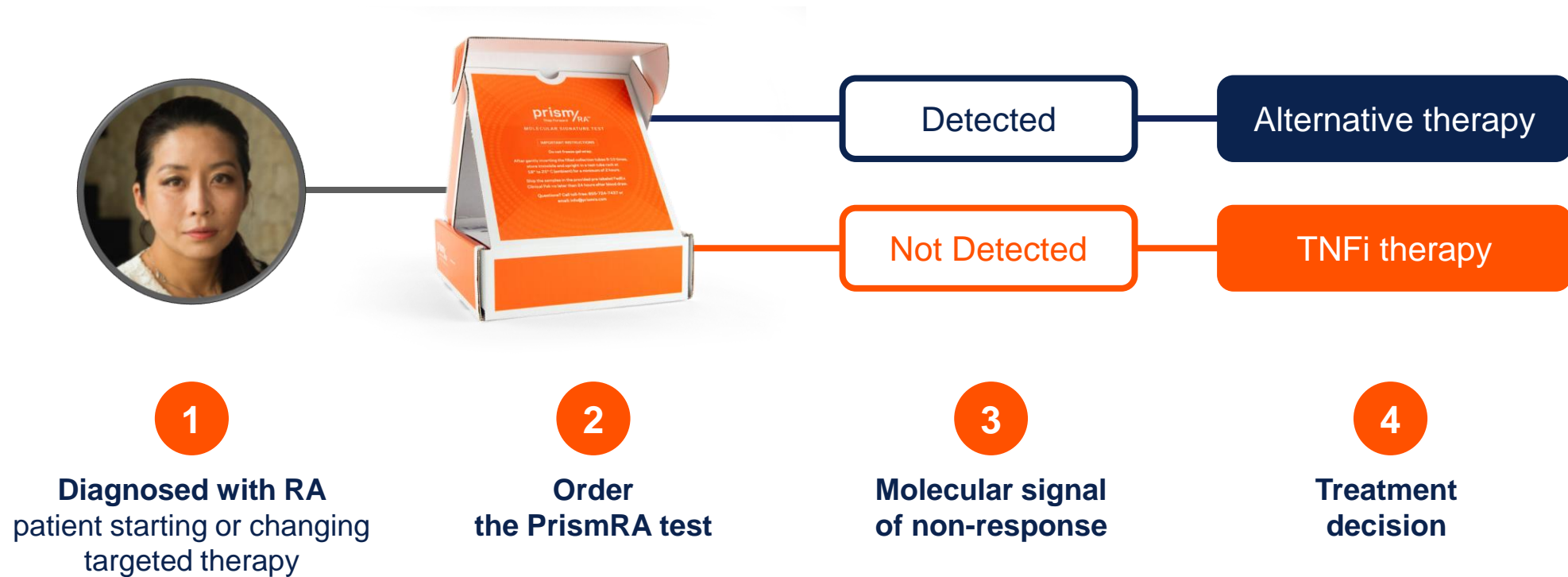
Molecular signatures are guided by genomic information



- 1) Mellors T, et al. Clinical validation of a blood-based predictive test for stratification of response to tumor necrosis factor inhibitor therapies in rheumatoid arthritis patients. *Netw Syst Med.* 2020; 3(1):91-104.
- 2) Roland T, et al. A proteome-scale map of the human interactome network. *Cell* 2014; 159:1212-26.
- 3) Ghiassian SD, Menche J, and Barabási AL. A Disease Module Detection (DIAMOND) algorithm derived from a systematic analysis of connectivity patterns of disease proteins in the human interactome. *PLoS Comput Biol* 11(4):e1004120.

For patients starting or changing targeted therapy

Incorporating PrismRA® into the clinical management of patients with RA can improve patient quality of life and save time by enabling providers to prescribe an effective therapy sooner



PrismRA[®] results report

Higher scores indicate that the patient is less likely to respond to TNFi therapy

Result values and interpretation guide are highlighted for every result

Results are reported on a continuous, 25-point scale, divided into three tiers



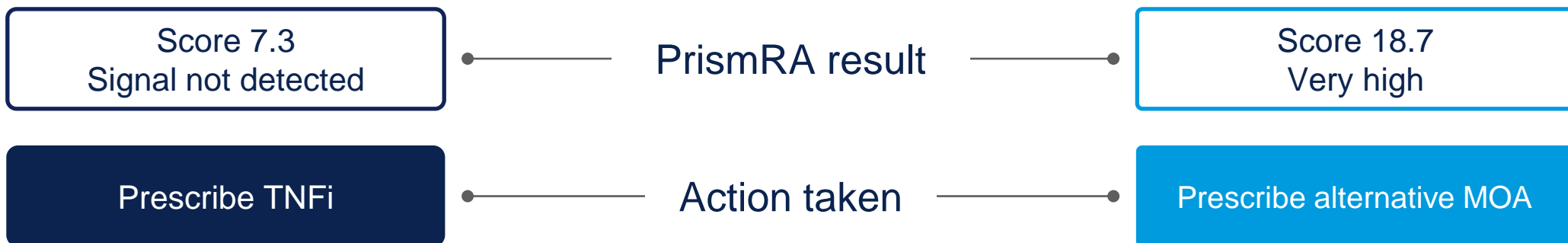
PrismRA® provides insights to inform treatment decisions

Two female patients with similar clinical features

PATIENT ASSESSMENT	
Age:	37
Anti-CCP:	negative
Swollen joint count:	4
Tender joint count:	8
Physician global:	40

PATIENT ASSESSMENT	
Age:	41
Anti-CCP:	negative
Swollen joint count:	5
Tender joint count:	7
Physician global:	40

Traditionally both patients prescribed TNFi as first targeted DMARD





prism / **RA**[™]
Step Forward
MOLECULAR SIGNATURE TEST

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