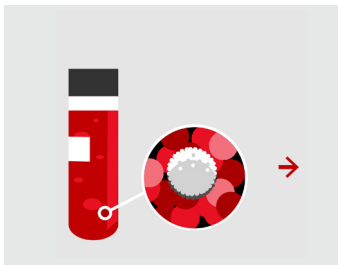


TCR-Antigen Map

Adaptive and Microsoft partnered in 2018 to create a TCR-Antigen Map, an approach to translating the genetics of the adaptive immune system to understand at scale how it works. Together we are using immunosequencing and machine learning to map T cell receptor (TCR) sequences to the antigens they bind. Using these data, we aim to develop a blood test for the early and accurate detection of many diseases, translating the natural diagnostic capability of the immune system into the clinic. In 2019, we had two early clinical signals, and one confirmed proof of concept in Lyme disease. We expect to submit our first clinical application to the FDA in 2020.

Learning to Decode the Immune System to Diagnose Disease



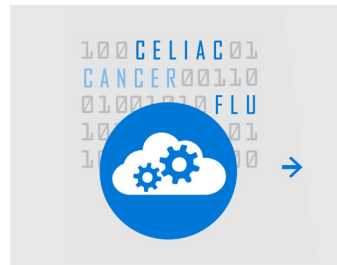
BLOOD SAMPLE

The immune system is nature's most finely-tuned diagnostic which defends the body against disease



IMMUNOSEQUENCING

We read immune signatures that store the diagnostic information



MACHINE LEARNING

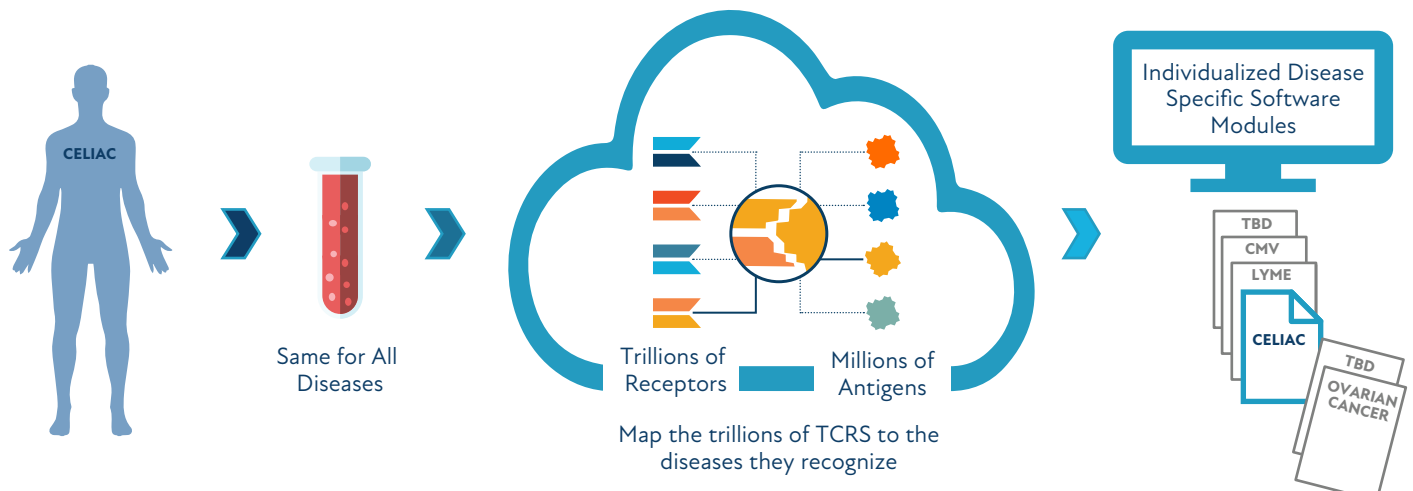
We generate a map of the immune cell receptors by matching trillions of T cells to the diseases they recognize



EMPOWERED CARE

This map of the immune system may be used by doctors and researchers to improve disease diagnosis

Using the Map at the Individual Patient Level



For more information on the TCR-Antigen Map, contact us at:

antigenmapinfo@adaptivebiotech.com

For more information on COVID-19 research participation, contact us at:

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