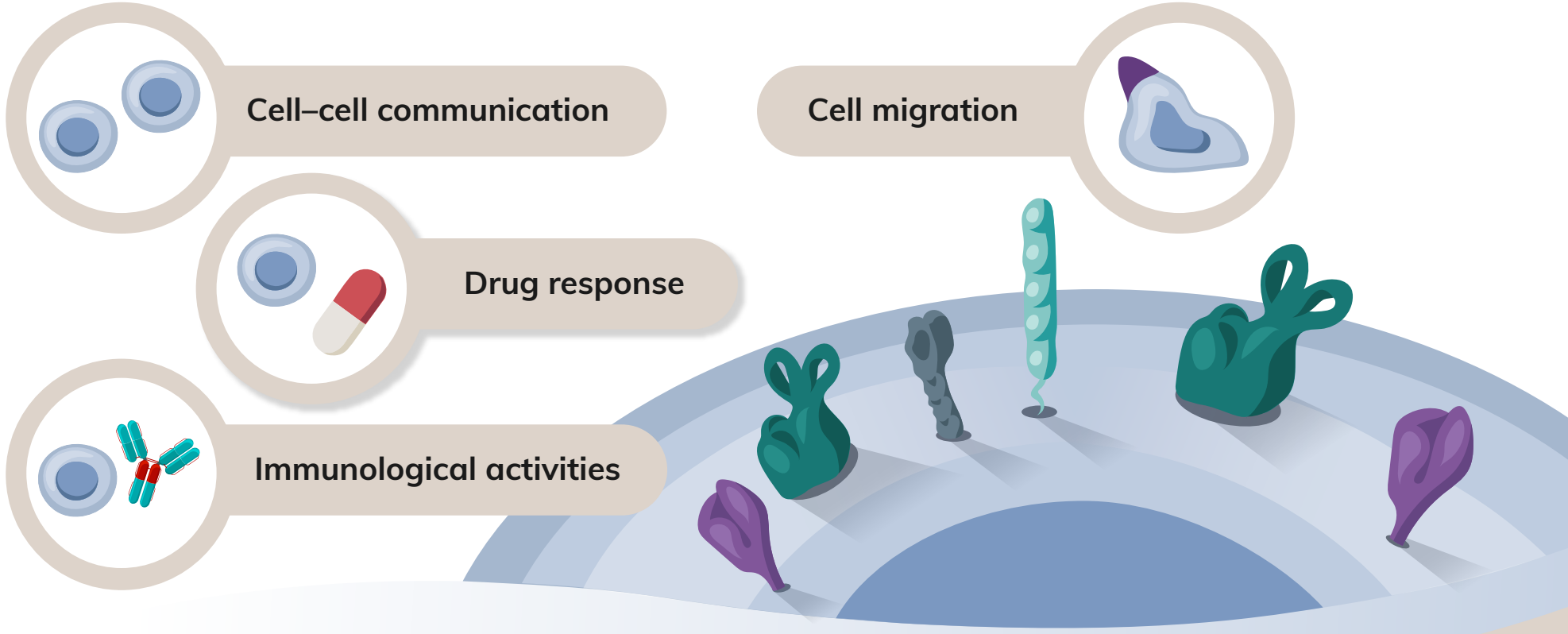


# Studying the cell-surface proteome of single cells

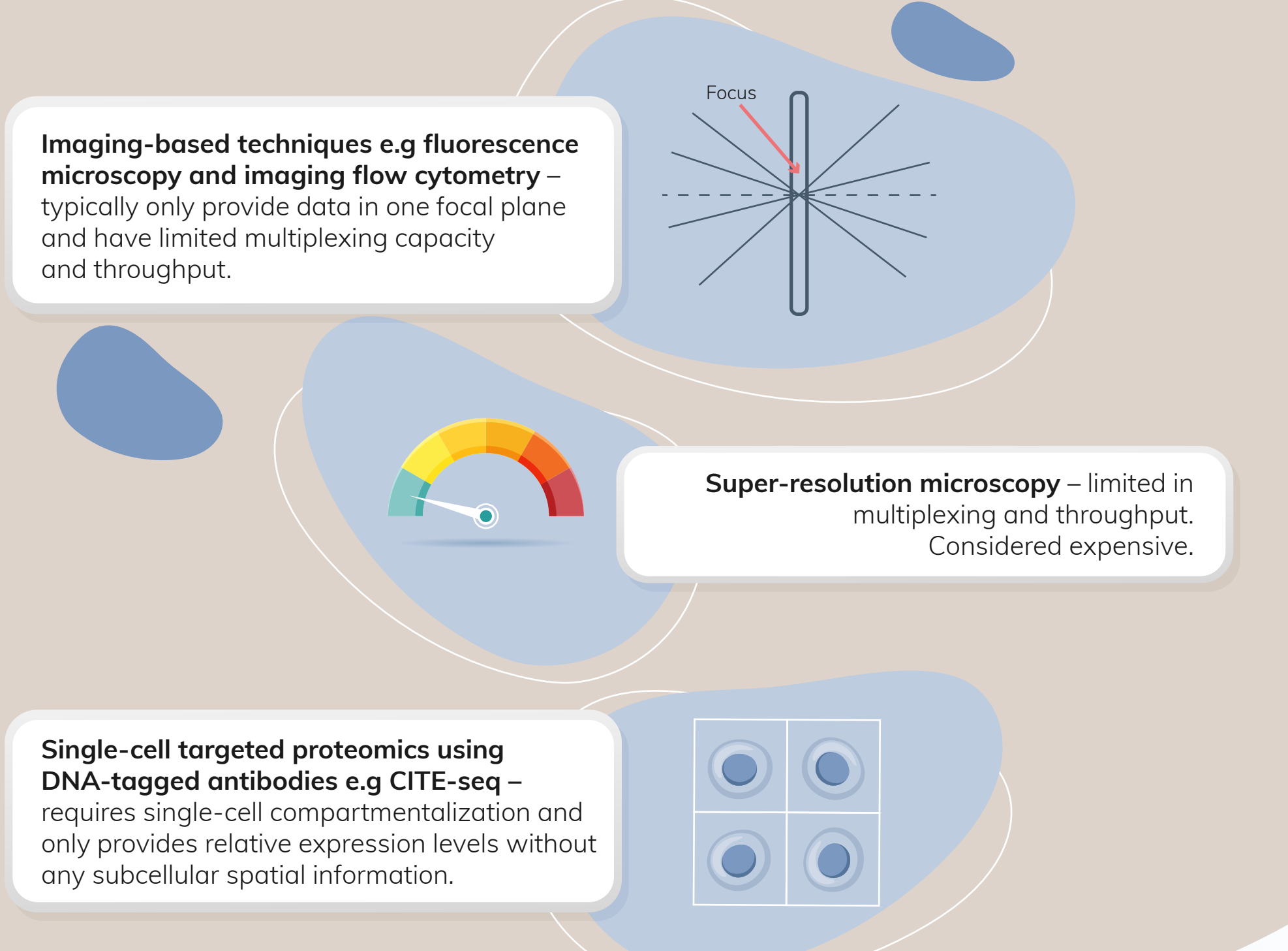
The cell-surface proteome is spatially dynamic and changes with the state of the cell, which in turn determines its activity in health and disease.

The location and spatial arrangement of membrane proteins in relation to one another influences cell function:



## The challenge

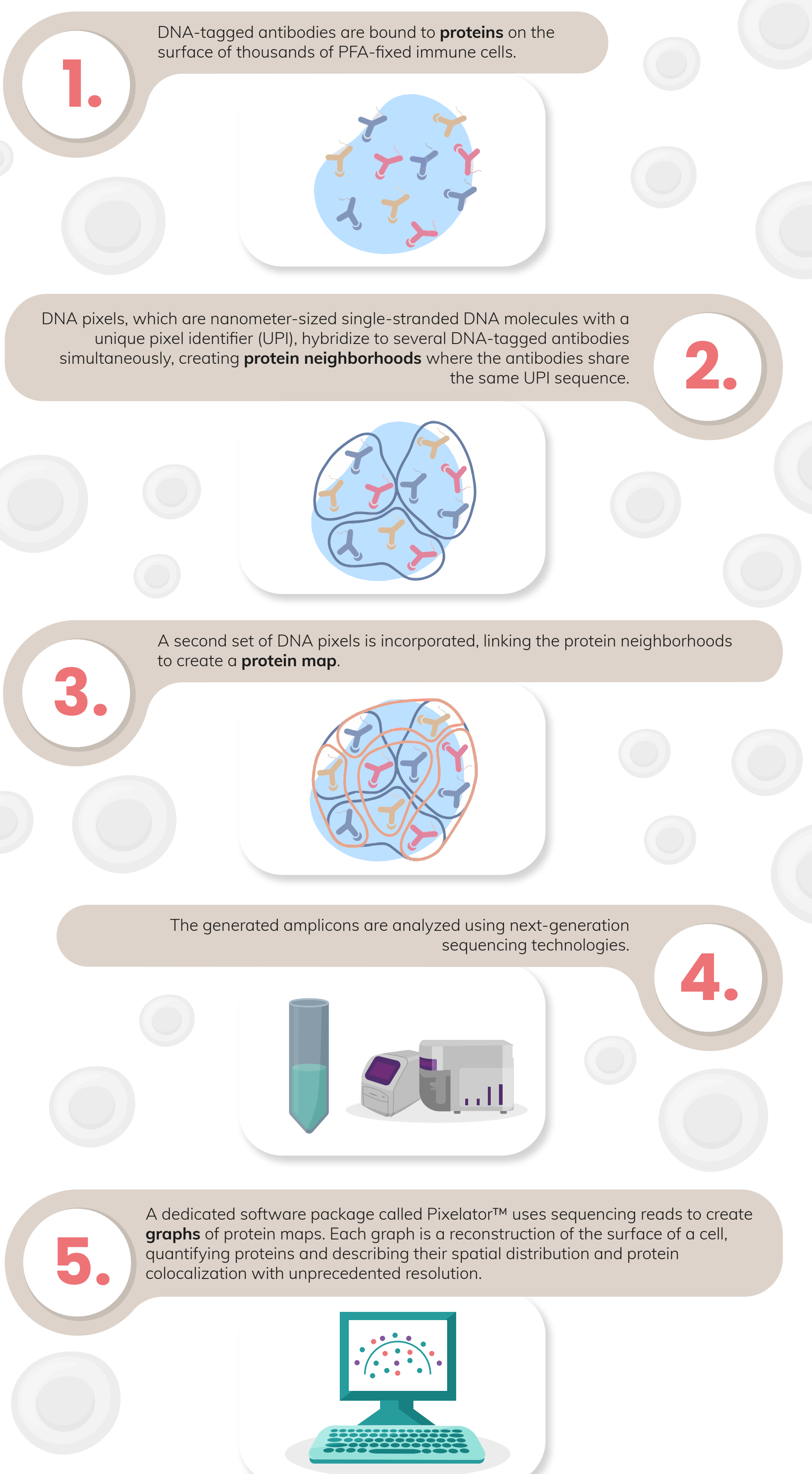
Current technologies for analyzing the spatial organization of cell-surface proteins have limitations:



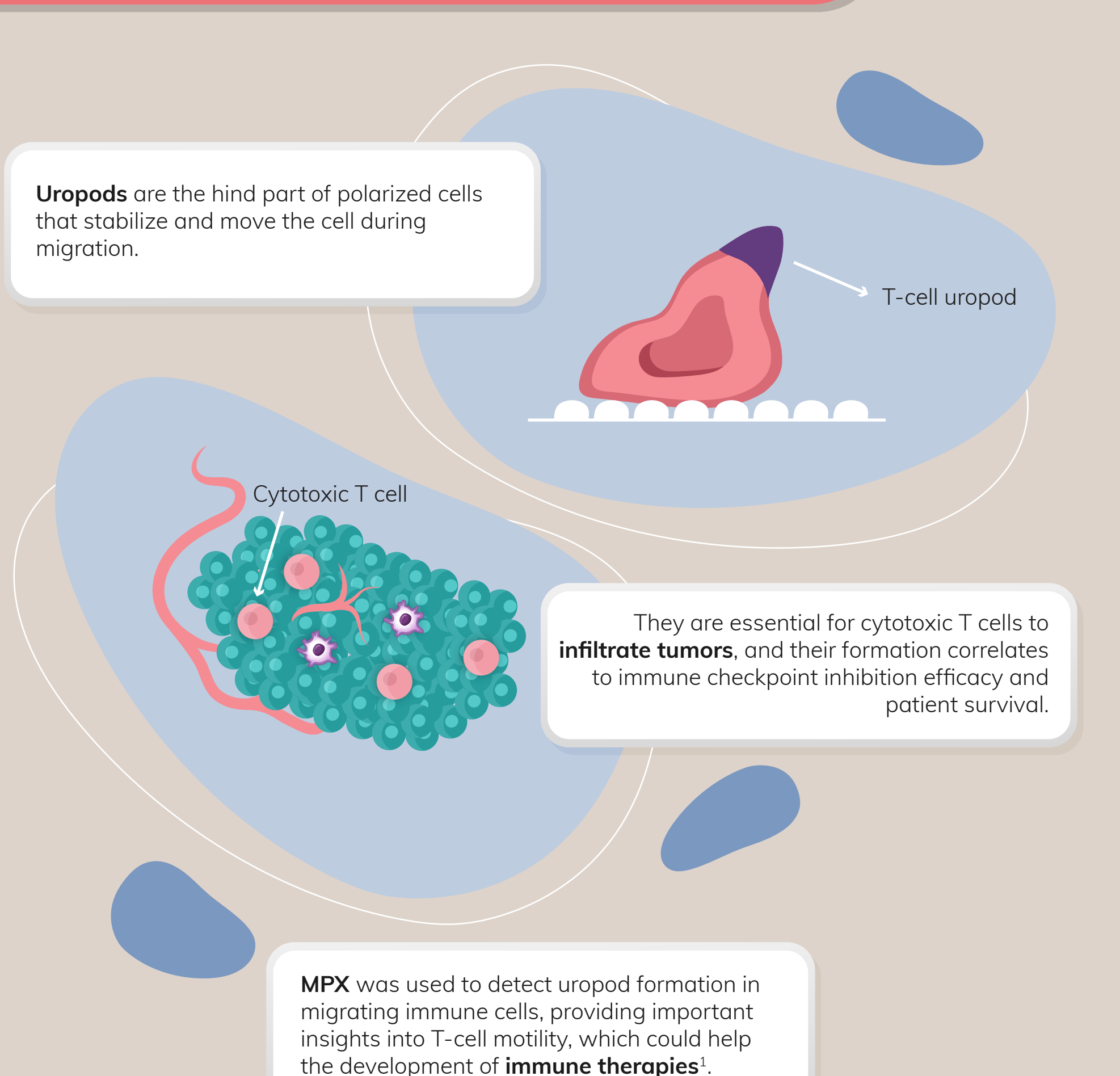
## The solution: Molecular Pixelation

Molecular Pixelation (MPX™) is a new technology that overcomes these limitations by capturing 3D spatial maps of surface proteins on thousands of single immune cells simultaneously in a highly multiplexed manner.

### How it works:



## Detecting T-cell uropod formation with MPX



1. Karlsson F, Kallas T, Thiagarajan D et al. Molecular Pixelation: Single cell spatial proteomics by sequencing. bioRxiv doi:10.1101/2023.06.05.543770 (2023).