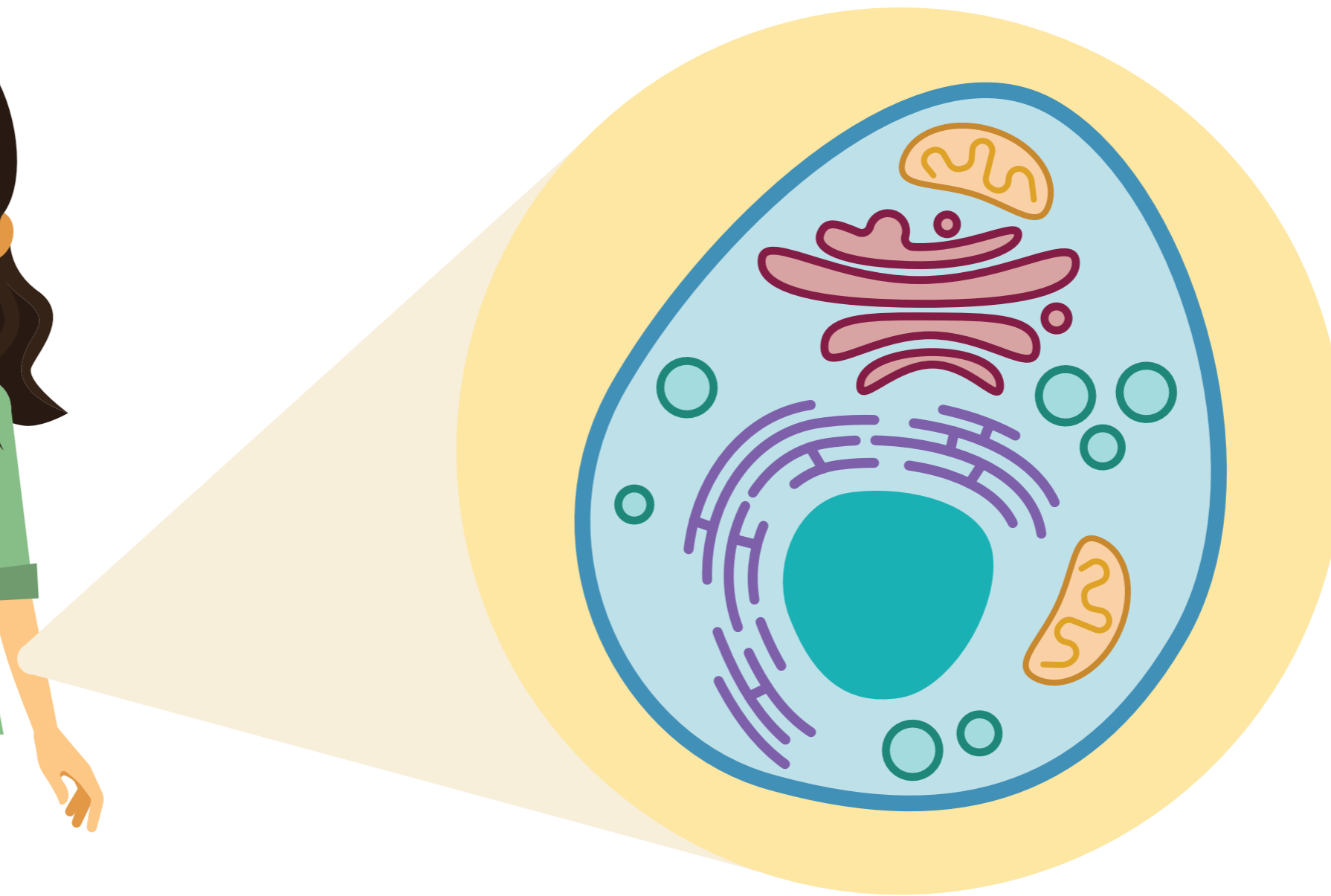




Comprehensive Genomic Profiling



An Introduction to Understanding Cancer Biomarker Testing



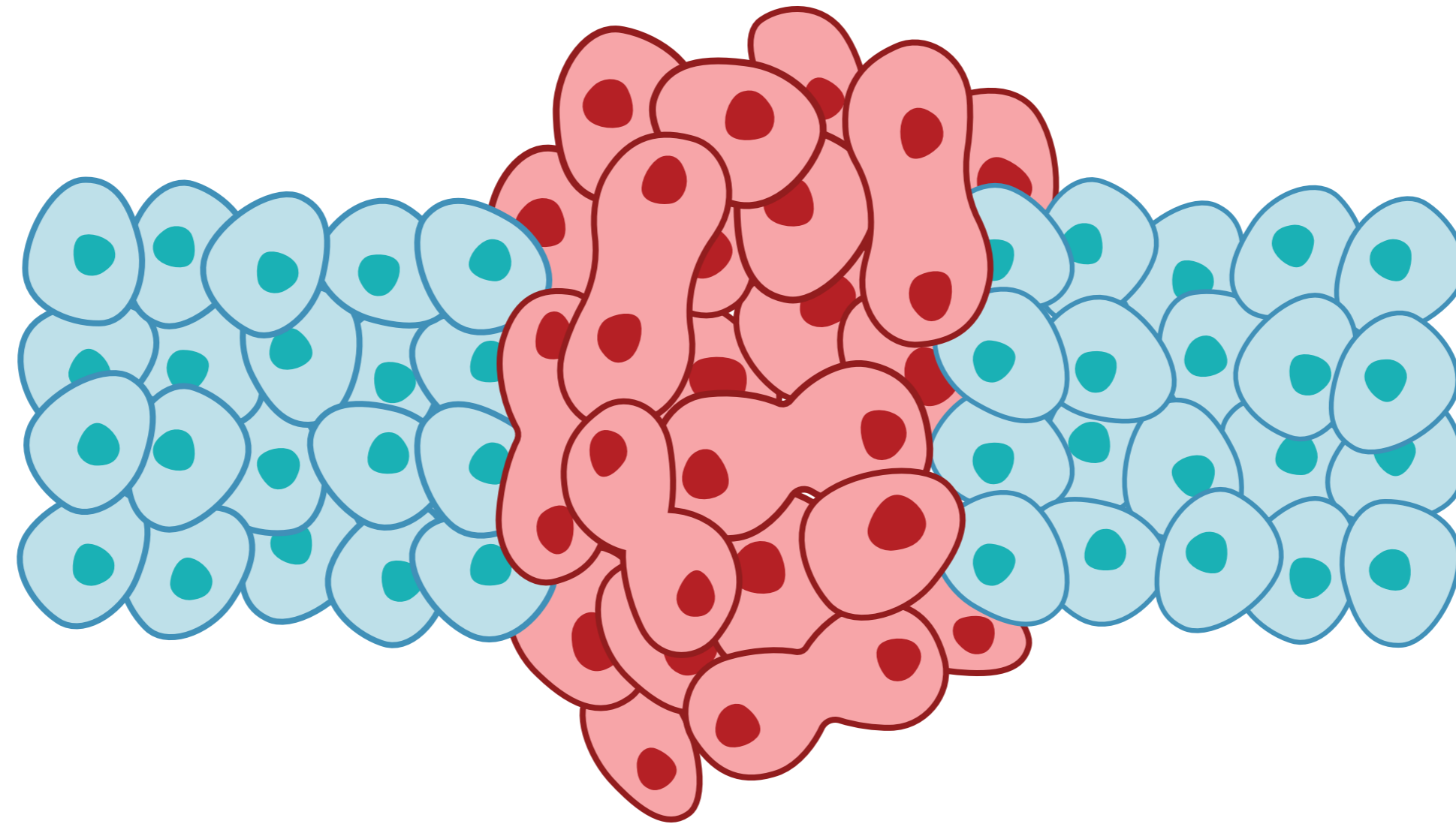
Our bodies are made up of around **37.2** trillion cells.¹



Every cell contains **DNA**, which is like an instruction manual. Chapters within the manual are called **genes**.

Genes tell cells what to do, including when to make new cells.

Sometimes when there is an error in the DNA, called a **mutation**, cells get the wrong message and can grow out of control.



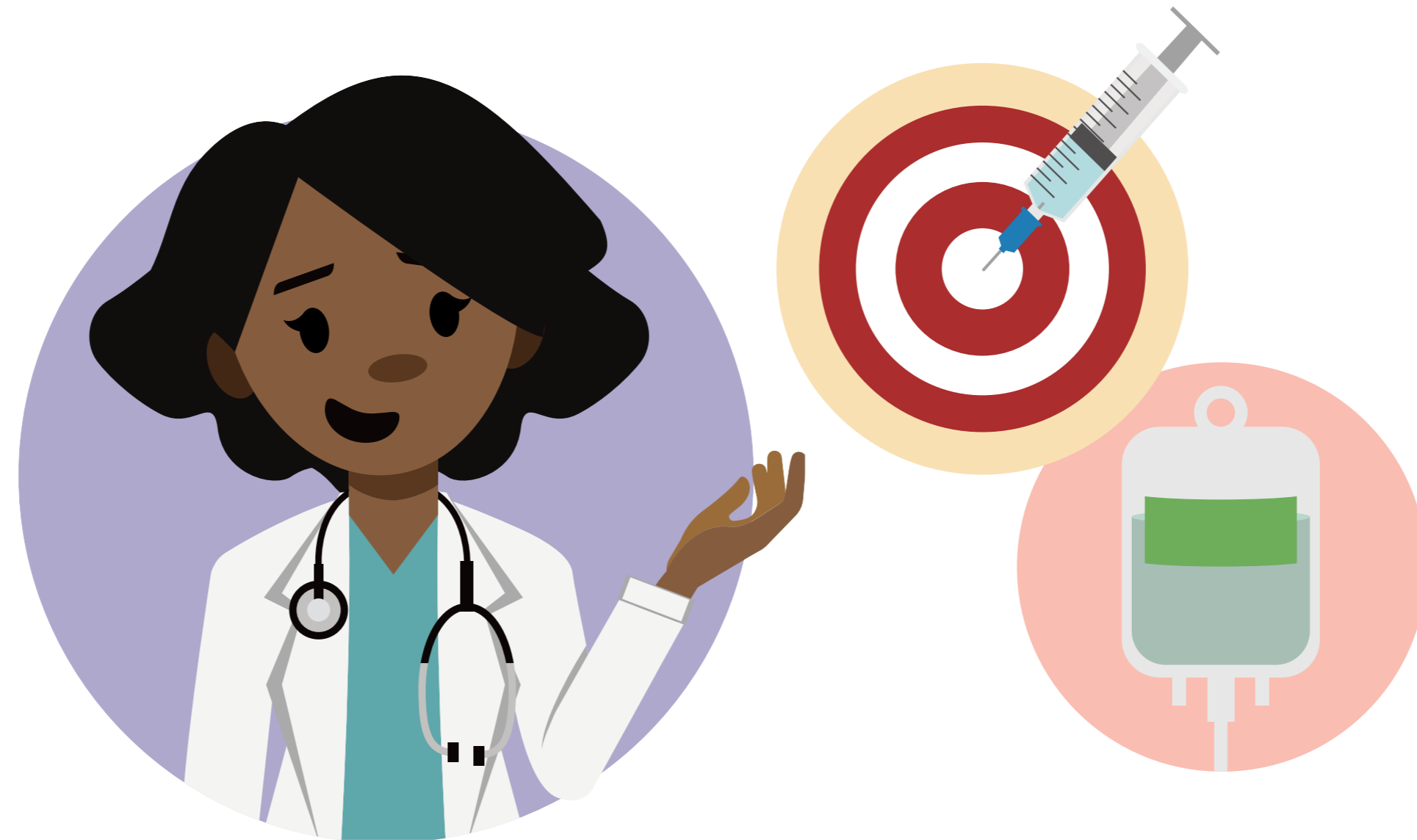
Normally, our immune system can stop this abnormal growth. But when it doesn't, the cells keep growing and form a lump, called a **tumor**.



Doctors will take a piece of tissue from the tumor, called a **biopsy**, to test if it is cancer.

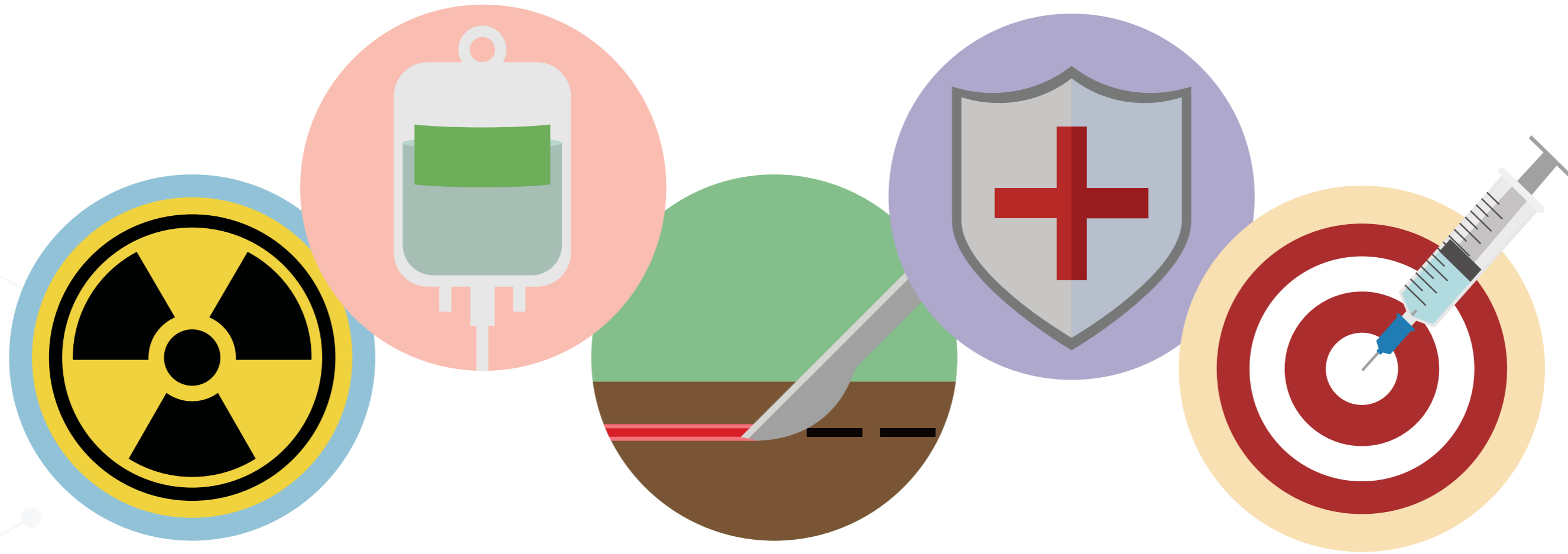
Comprehensive Genomic Profiling (CGP) is an advanced method of testing the DNA of the tumor tissue to find the mutations that may be causing the cancer to grow.

Knowing what mutations are driving the cancer can help doctors choose the best treatment.



This is also known as personalized medicine, or precision medicine, because it is based on an individual's unique genomic profile and cancer type.

Standard cancer treatments include chemotherapy, radiation and surgery.



But with the use of Comprehensive Genomic Profiling, doctors can also decide if **Targeted therapy** or **Immunotherapy** would be more effective.



Targeted therapy may stop the growth of cancer cells by targeting specific mutations

Immunotherapy boosts your body's own natural immune system to find and destroy cancer cells.

Today, there are nearly 849 targeted therapies and 450 immunotherapies in the late-stage pharma development pipeline for oncology.²

Comprehensive Genomic Profiling can also help patients find and access the right clinical trial to participate in.





Learn More at
www.CancerGuardian.com

Sources:

1. <https://handling-solutions.eppendorf.com/cell-handling/about-cells-and-culture/detailview/news/how-many-cells-are-in-your-body-probably-more-than-you-think/>
2. <https://www.iqvia.com/insights/the-iqvia-institute/reports/global-oncology-trends-2019>