

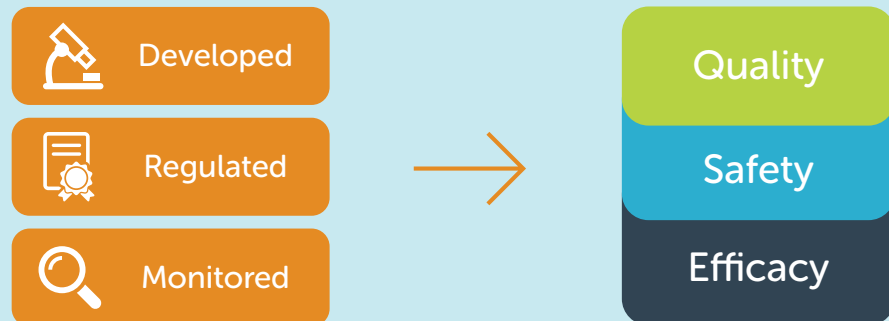
Biotherapeutic Medicines : Putting Patients First



What is so special about how they are made?

- Biotherapeutic medicines are very complex. They are made in living organisms by genetically engineering DNA.
- The biologic is modified to ensure it functions as intended.
- The most effective cell line is selected for expansion and is grown in bioreactors and carefully monitored.
- Production requires highly controlled steps to ensure consistent **quality, safety, and efficacy**.

What should patients know?



How to differentiate them?

Biotherapeutic Medicine

A medicine which has been licensed by the national regulatory authorities on the basis of a full registration dossier; i.e. the approved indication(s) for use were granted on the basis of full quality, efficacy and safety data.

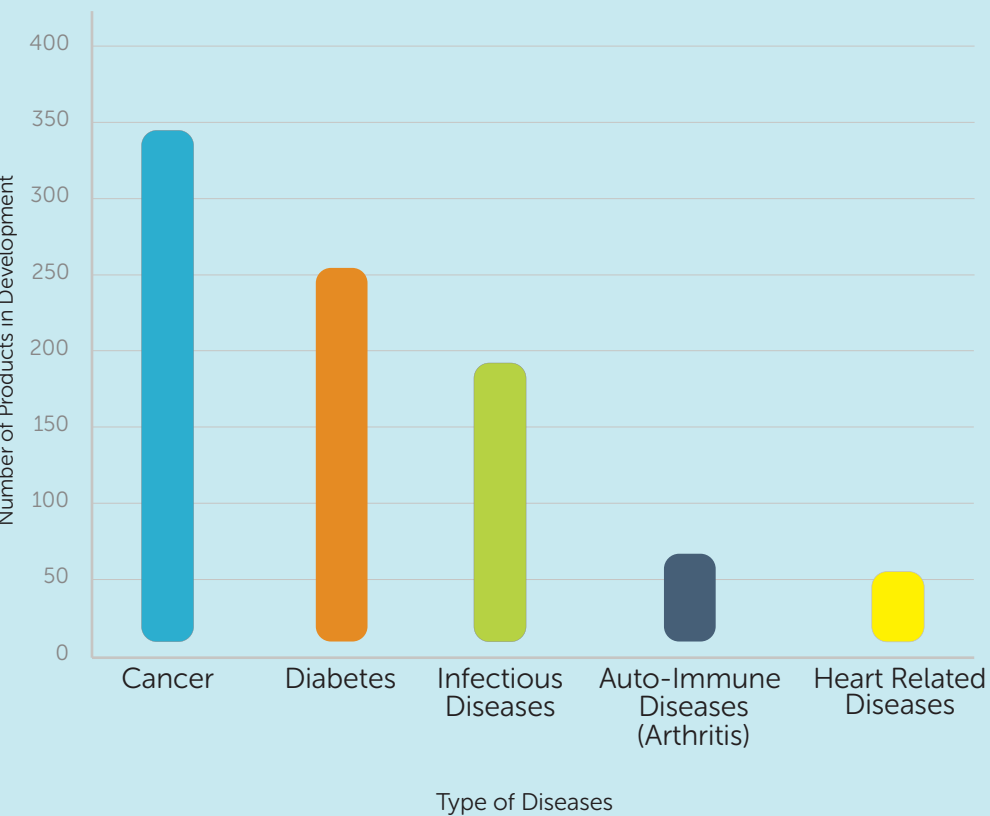
Biosimilar

- Product highly similar to a biotherapeutic medicine that has already been authorized with full dossier.
- Subject to a tailored regulatory data package with full side-by-side analytical and clinical testing.
- Minor variations compared to the original biotherapeutic reference product with no clinically meaningful differences identified.

Non-comparable Biotherapeutic

- Product claiming to be copy of another biotherapeutic medicine yet not approved in alignment with WHO standards.
- A non-comparable biotherapeutic is:
 - Developed with limited side-by-side comparison proving biosimilarity to reference product.
 - Product with unclear approval standards, thereby posing potential risk to patients and public health.

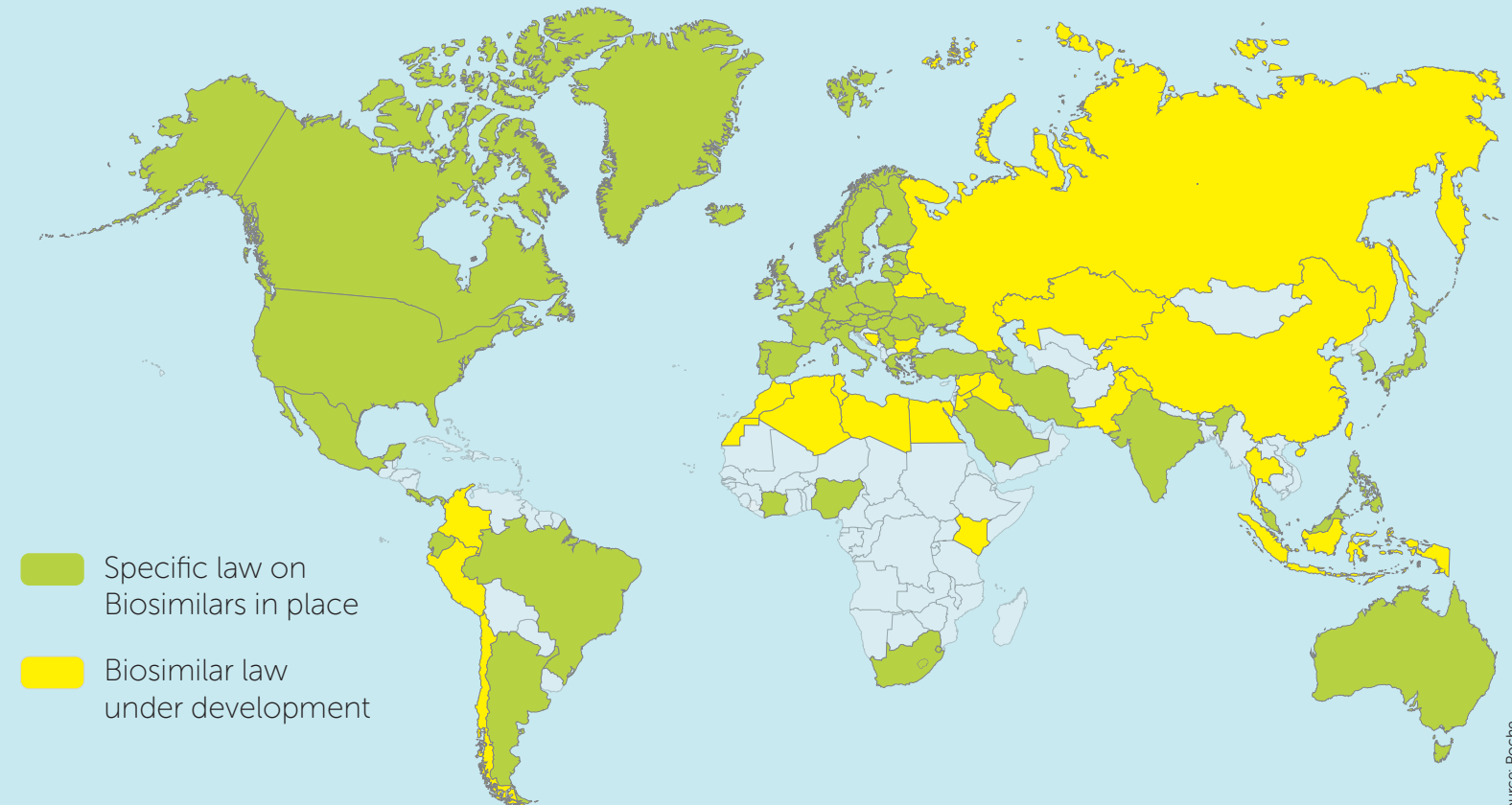
What's in the R&D pipeline?



What is the value they bring?

- Millions of lives saved**
- Health costs reduced**
- Society as a whole healthier**

Where are biosimilars regulated?



What was the journey like?

