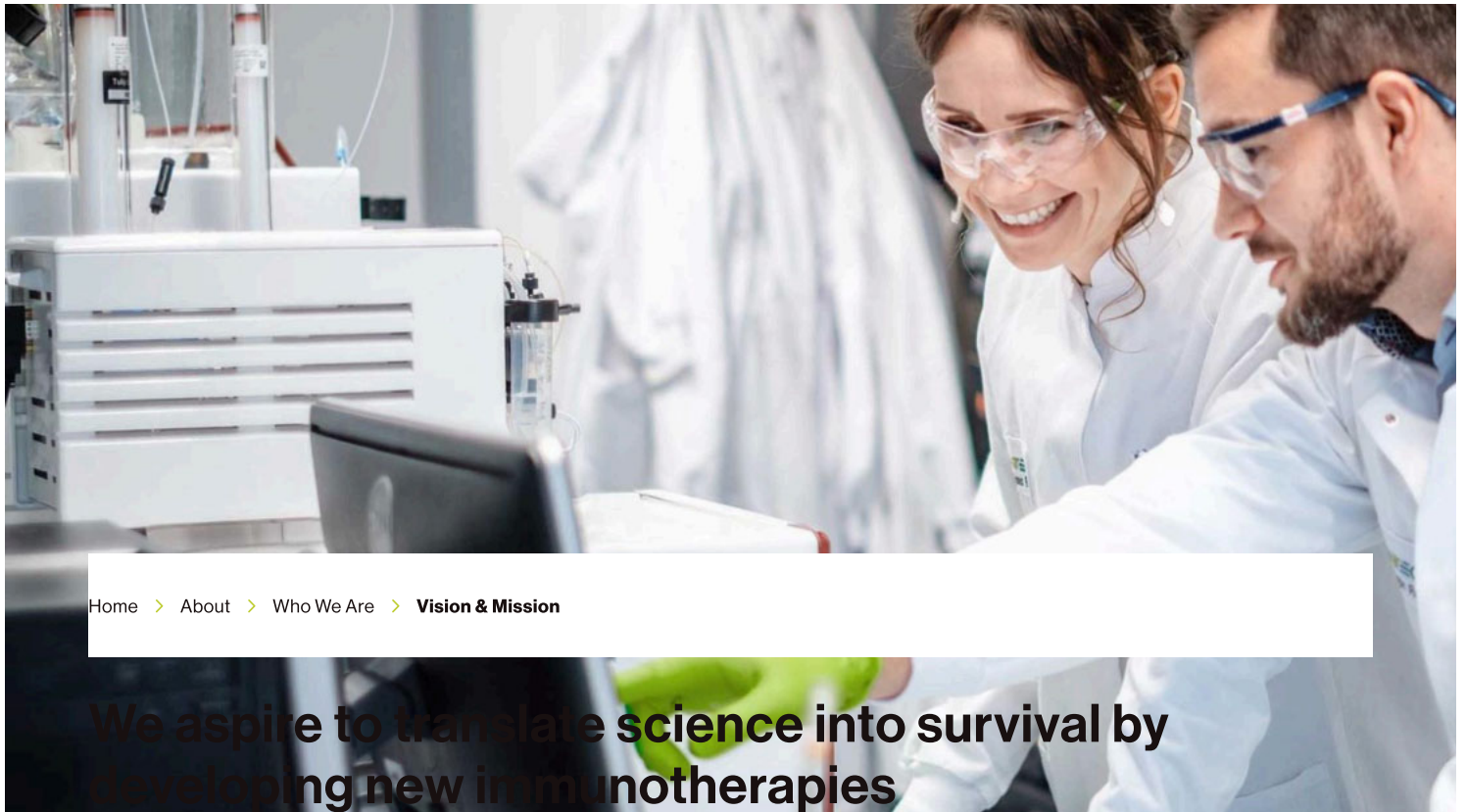




[Home](#) > [About](#) > [Who We Are](#) > **[Vision & Mission](#)**

We aspire to translate science into survival by developing new immunotherapies

Our mission

We are committed to improving the health of people worldwide with our fundamental research and our work in the area of development of immunotherapies utilizing the full potential of the immune system to fight cancer, infectious diseases and other serious diseases. We believe in scientific rigor, innovation and passion as driving forces. BioNTech was founded by scientists and physicians to translate science into survival by combining fundamental research and operational excellence.



A broad suite of novel technologies

With decades of deep immunology expertise and experience in developing and optimizing mRNA as part of its broad suite of novel technologies, the company is working with the global community to defeat life-threatening and serious diseases such as cancer, COVID-19, malaria and tuberculosis. The first ever approved mRNA vaccine was created in the labs of BioNTech in Mainz, Germany.



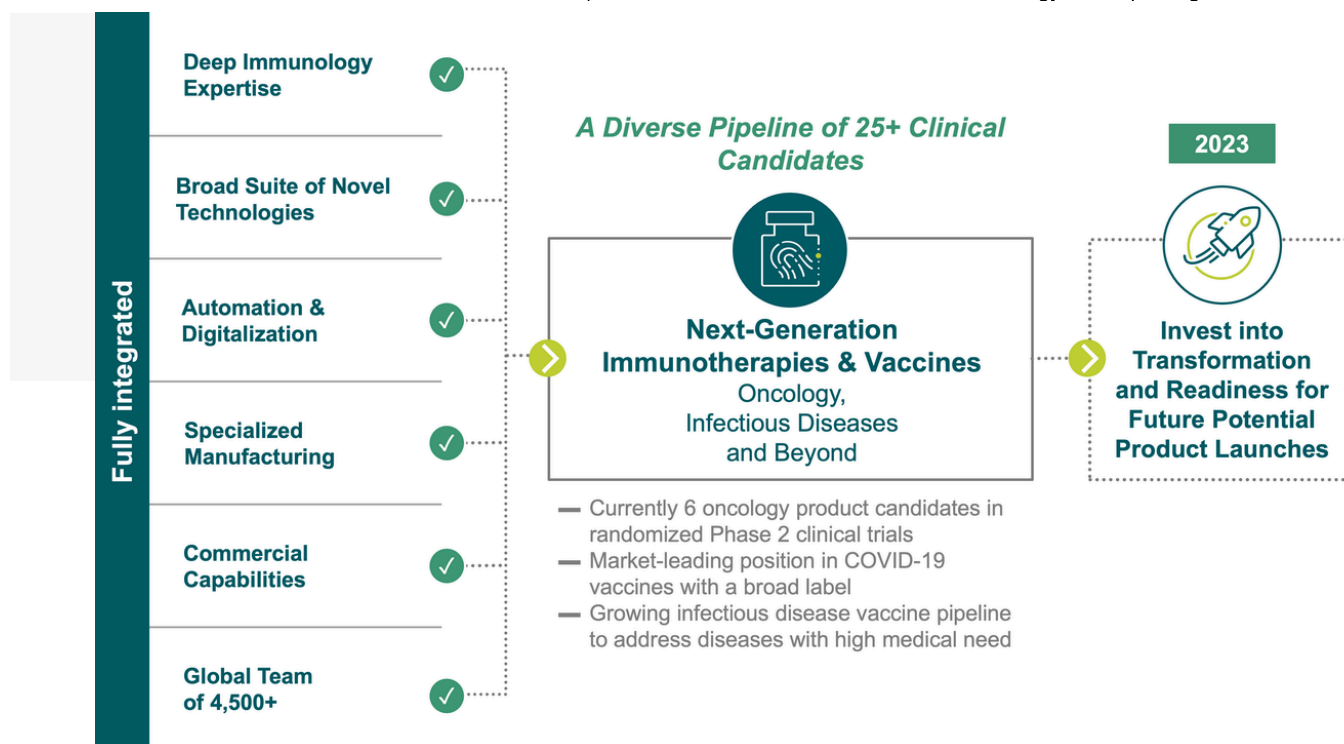
Discover our pipeline

Immunotherapy powerhouse

BioNTech is a fully integrated, global immunotherapy powerhouse. We have been working on automated and digitized processes and build continuously capabilities for specialized manufacturing, either for individualized vaccines or for large-scale products like our COVID-19 vaccine. We are also continuously evaluating ways to democratize the access to healthcare in the long-term.



Learn more



A legacy of scientific discovery

Prof. Ugur Sahin, M.D., Prof. Özlem Türeci, M.D., and Prof. Christoph Huber, M.D. co-founded BioNTech in 2008 to revolutionize immunotherapy with individualized cancer therapies. Throughout the decades of research, the pipeline expanded and now includes several platform technologies and candidates with synergistic potential, targeting cancer and infectious diseases.

At BioNTech, we have been conducting fundamental research of mRNA technologies in the field of individualized cancer medicine for more than a decade. Some of our colleagues, including our co-founders, have been researching and developing mRNA-based vaccines for more than 25 years. The key problem of mRNA was a missing genetic engineering process so that mRNA vaccines trigger a strong and precisely targeted response by the immune system after injection.

For over two decades, Sahin, Türeci and their team have systematically studied the biology and pharmacology of RNA vaccines and identified multiple strategies to increase intracellular stability of RNA vaccines and improve the efficiency of protein translation in human dendritic cells which are the most potent stimulators of the immune system. This way, they established different layers of mRNA vaccine optimization, including: the optimization of the various structural backbone elements of mRNA molecules, ways to utilize uridine-based and nucleoside-modified mRNA chemistries as well as different lipid-based compositions and administration routes to deliver mRNA.

These discoveries and various clinical studies have resulted in a diversified toolbox from which we can choose depending on what we want to achieve. We can create investigational mRNA-based vaccines either to induce strong T cell responses in cancer patients (Sahin et al., Nature, 2020) or with the aim of suppressing autoimmunity (Krienke et al., Science, 2021). A small part of this diversified toolbox of discoveries and technological optimizations has been used for our COVID-19 vaccine.

> **Our mRNA therapeutics** > **Scientific publications**

Taking on the world's most pressing health challenges

BioNTech-Pfizer Exhibit 1181

BioNTech SE and Pfizer Inc. v. ModernaTX, Inc. IPR2023-01359

While BioNTech, together with its partner Pfizer, has led the global COVID-19 vaccine effort and made great strides in individualized cancer treatments, its story is just beginning. BioNTech's portfolio contains more than 25 product candidates in clinical trials.

In pursuit of changing the treatment paradigm with individualized cancer therapies, our pipeline encompasses oncology product candidates including individualized and off-the-shelf mRNA-based therapies, innovative chimeric antigen receptor T cells, bispecific checkpoint immunomodulators, targeted cancer antibodies and small molecules.

[Our versatile pipeline](#)

Succeeding through global partnerships

BioNTech works closely with some of the world's most established pharmaceutical companies and non-profit organizations to drive breakthroughs in medical science, therapeutical innovations, and improvement of quality of care. We have established a broad set of relationships with multiple global pharmaceutical collaborators, including Genmab, Sanofi, Genentech, a member of the Roche Group, Regeneron, Genevant, Fosun Pharma, and Pfizer.

[Our collaborators](#)

A global immunotherapy powerhouse

We aim to bring novel oncology and infectious disease therapies to the market. BioNTech is also exploring how to apply its technology to advancements in treating allergies, inflammatory diseases, and regenerative medicine.

[Our therapeutic areas](#)

Annual Report

2023 was a year in which we strengthened our core capabilities and progressed our diversified clinical pipeline. See our Annual Report for the year 2023 for an overview of corporate and scientific milestones, detailed updates on our pipeline candidates and a summary of our financial results.

[Download Annual Report](#)



Read also



BIONTECH

BioNTech SE
An der Goldgrube 12
55131 Mainz, Germany

T: +49 6131 9084-0
F: +49 6131 9084-2121
M: service@biontech.de



Company

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