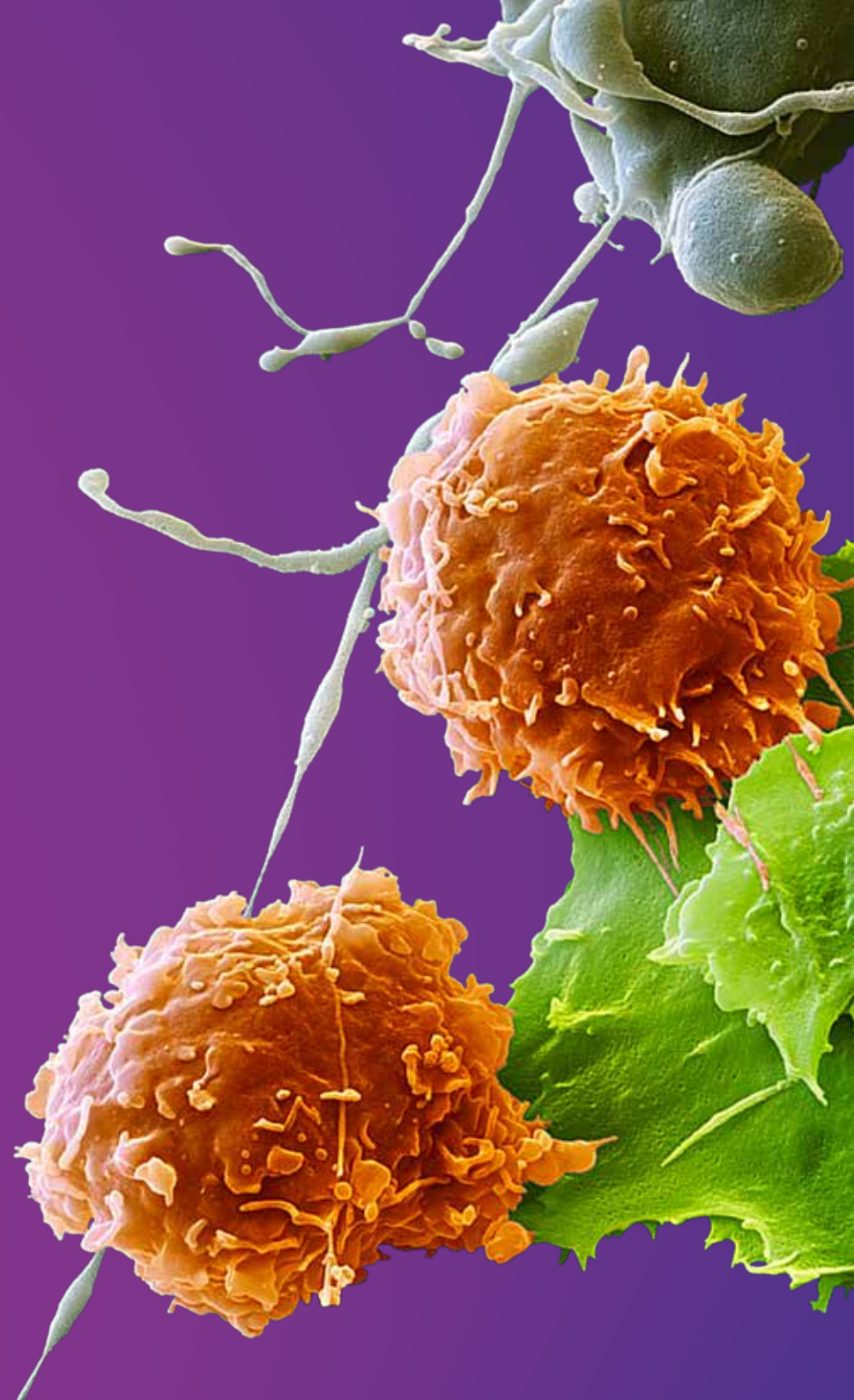




Miltenyi Biotec

# Corporate Brochure

Make cancer history





# Our mission

Our mission is to advance scientific understanding and medicine by providing solutions for cell and gene therapy and biomedical research. We believe in biomedical science as the strongest driver to change the way we treat cancer, autoimmune diseases, and neurodegenerative disorders.

The design of therapeutics is evolving away from chemistry-based science towards individual treatments that focus on cell-based approaches and more targeted drugs. We are driving the revolution that is reinventing medicine and advancing it to a level that will make cancer and other serious diseases history.



We believe there are no simple solutions to complex diseases like cancer or degenerative diseases. It takes a combined approach of deep scientific understanding, cutting edge diagnostics, and advanced genetic engineering to develop personalized cellular therapies that are able to meet the challenge.

This is why Miltenyi Biotec offers a body of expertise which is unprecedented in the industry. Our solutions address all aspects of translational sciences, from basic research to commercial-scale cell therapy manufacturing. We offer technologies for high content analysis of complex tissues, isolation of single cells, and their molecular and deep phenotypic analysis. But it doesn't stop here. We provide our customers with everything they need to turn cells into next-generation drugs to make them available to patients.



# Our values

## Innovation

As researchers ourselves, we share a scientific mindset with our customers and understand their needs and visions. This is the key to our commitment to constantly providing pioneering innovations and technology leadership to our customers. We believe that revolutionary solutions will lead to groundbreaking new opportunities in basic research and clinical applications. This is what drives us enabling discovery and empowering therapy.

## Excellence

We live our culture of excellence in every aspect of our work. We challenge the status quo and aim to excel across the entire process: from research to product development, to marketing, and customer service. The superior quality of our products comes from more than three decades of experience and refinement. As a private company, we invest all our resources into creating excellence in science and healthcare.

## Creativity

We dare to be different, to swim upstream. Our creative engine is the diversity within the company, and it is the multidisciplinary composition of our teams that brings this driving force to the forefront. Our working culture promotes independent thinking and provides resources to individuals pursuing new ideas. We are independent, colorful, and accountable to no one but ourselves, our customers, and our patients.



Miltenyi Biotec



# Our people

Miltenyi Biotec is a unique place to work. We meld the combined excellence from more than 60 disciplines in natural sciences, engineering, and informatics to make a significant contribution to biomedical sciences. We encourage a creative working environment driven by “Pioniergeist” – an attitude based on breaking fresh ground and seeking new horizons – boldly envisioning the future and turning it into reality for researchers and patients.

Since our establishment, we have been home to brilliant minds and creative thinkers from around the globe – people who roll up their sleeves to empower discovery and advance therapy. This spirit holds true not only for our basic research and product development, but also applies to every department in the company – at Miltenyi Biotec everybody can help to **make cancer history**.



[Learn more about working at Miltenyi Biotec.](#)

At Miltenyi Biotec there are brilliant minds from over 50 countries working closely together to invent the medicine of tomorrow. Our unique Miltenyi Biotec culture is based on strong principles aiming to create a working environment that fosters creativity, excellence, and innovation.



# Our passion for science

Miltenyi Biotec was founded in 1989 based on the invention of MACS® Technology. Our technological solutions have made an important contribution to the advancement of biomedical science ever since. Today our more than 18,000 products play a vital role in paving the way for the medicine of tomorrow. We offer comprehensive solutions for our customers' workflows, from basic research to translation into clinical applications.

Our integrated technologies span a broad range of applications, from cellular research to genetic sequencing, high-content imaging, and commercial-scale manufacturing of cellular therapies.

We are scientists ourselves and share our customers' mindset. We are passionate about unraveling nature's complexity. This is what drives our research and inspires our products.

## MACS Technology

MACS Technology enables the magnetic separation of cell populations based on surface antigens. It is a fast and gentle method for the isolation of viable and functional cells by labeling epitopes with specific antibodies conjugated to superparamagnetic beads.

[Learn more  
about MACS Technology.](#)



1989 foundation  
in Germany



> 3,500 employees  
worldwide



25% employees  
in global R&D



> 6,000 patients p.a.  
treated with cell products  
using our technologies



> 18,000  
products



> 100,000  
cell therapy  
procedures



> 46,000  
scientific references



28 countries  
with direct sales



73 countries  
served, including  
distributors



# Our global presence

- ▲ Miltenyi Biotec subsidiaries and branch offices
- Regions with sales and technical support provided by local subsidiaries
- Regions served by distributors
- CliniMACS Cell Factory®
- MACS Innovation and Training Center





# Our R&D innovation

## MACS Sample Preparation

The Miltenyi Biotec portfolio of innovative solutions for tissue preparation offers all the tools needed for beginning scientific experiments with high-quality starting materials. Whether you need viable single-cell suspensions from solid tissues or homogenous tissue lysates, our sample preparation solutions help you standardize your tissue preparation and get reproducible data.

## MACS Antibodies

Recombinant antibodies provide superior lot-to-lot consistency and purity compared to mouse or rat hybridoma-derived, monoclonal antibodies. Our antibody portfolio covers a wide variety of specifications, making it one of the backbones of applications such as cell isolation, flow cytometry, and imaging.

## MACS Flow Cytometry and Cell Sorting

MACS Flow Cytometry and MEMS chip-based cell sorting provide the best-in-class solutions every biomedical researcher needs. From instruments and reagents to kits and software, this comprehensive portfolio keeps your finger on the pulse of advanced flow cytometry, cell sorting, and cell analysis.

## MACS Cell Culture and Stimulation

Our MACS Cell Culture and Stimulation portfolio comprises a specialized and versatile range of cell culture media and reagents. Products are available for human and mouse primary cells, including immune cells, stem cells, neural cells, and tumor cells. The portfolio is completed by small molecules and reprogramming reagents for stem cell research.

## MACS Imaging and Microscopy

Our growing MACS Imaging and Microscopy portfolio offers versatile, high-quality imaging solutions to study complex biological systems. From high-content imaging using hundreds of markers, to automated 3D imaging and *in vivo* imaging at subcellular resolution, our products open up new avenues of study towards understanding nature's complexity.

At Miltenyi Biotec we believe that a deep scientific understanding of the molecular root cause of severe diseases is essential to developing new therapeutic options that address their complexity. As researchers, we combine the expertise from basic research with the development of innovative tools to bring biomedical advancements into the clinic. With our work, we are actively contributing to the global scientific community, aiming to make a real impact rather than merely generating revenue. Our products and know-how are used in laboratories and clinics around the world and span over 100,000 cell therapy procedures performed using our technologies. Hundreds of clinical trials treating over 6,000 patients yearly are carried out around the globe – all of which rely on our technologies. All of this basic research and clinical trial experience has led us to products that are used in our very own company-initiated trials.



[Learn more  
about our products.](#)



# Our GMP competency

Cutting-edge science and technology need excellence at all levels. At Miltenyi Biotec we have the highest standards in our work, whether it is product quality, scientific accuracy, regulatory expertise, or the reliability of our supply chain. We know our processes and live our culture of excellence to make them better – every day.

Our combined GMP competency is part of our offering to our customers – we deliver the highest quality products and offer a solid regulatory track record that allows us to provide tailored consulting and audit-proof support to our customers.

ISO 9001

ISO 13485

Medical Device Regulation

Certified as a pharmaceutical manufacturer

Type II master files at US FDA

Regulatory support files available (e.g. PIF, CoA)

Generic manufacturing authorization for CART cells

Applications for cell manipulation (GMP) and cell separation (CE) in the EU

GMP manufacturing license for monoclonal antibodies

FDA-approved products

More than 500 INDs/IDEs at US FDA

Clinical studies in EU & globally

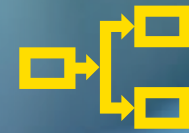


# Our CDMO competency



## Lentiviral vector production

Being able to genetically modify cells to provide them with the right properties is an essential prerequisite for most cellular therapies. Miltenyi Biotec offers sophisticated and robust processes to provide our customers with the latest lentiviral vector technologies for their research and commercial manufacturing needs.



## Process development

Our process development services support innovative developers of cellular therapies in transferring their manufacturing processes to early clinical- as well as commercial-scale production.



## Cell manufacturing

Miltenyi Biotec operates GMP facilities worldwide based on our fully-automated CliniMACS Prodigy® Platform. Depending on our customers' needs, our CliniMACS Cell Factories® have the capacity of manufacturing commercial-scale cellular therapies in a robust setting.



## Building your very own CliniMACS Cell Factory®

Cell manufacturing sites will become the backbone of future oncology treatment regimens. At Miltenyi Biotec, we have the highest standards in our work, whether it is product quality, regulatory expertise, or the reliability of our supply chain. In close collaboration with our trusted partners, we support our customers in setting up modular and scalable CliniMACS Cell Factories tailored to their specific needs.



# Our CliniMACS Cell Factory®

Our network of CliniMACS Cell Factories around the world has brought Miltenyi Biotec's vision of how cellular products should be manufactured to life. This modular and fully scalable approach is based on our CliniMACS Prodigy Manufacturing Platform.

This fully-automated, closed system minimizes cleanroom requirements and enables parallel manufacturing of patient material on multiple instruments – all in one room. Based on our experience in building and operating our CliniMACS Cell Factories in North America, Europe, and Asia, we are offering this expertise to our customers who either want to scale up their existing cell manufacturing capacities or boost their on-site efficiency. This concept is extremely versatile and fully adaptable to the needs of both hospitals and pharmaceutical companies alike.





# Our translational competency

Miltenyi Biotec stands out from other companies by combining the expertise of research institutions, biotech firms, medical device manufacturers, and pharmaceutical companies, all under one roof. Home to biomedical innovators, we have the technical capabilities to translate our experience into novel solutions for research and clinical applications. But we are also a pharmaceutical company familiar with the challenges of developing innovative therapeutic options and making them available to patients.

We want to make a difference to scientists, physicians, and patients – from contributing to basic research to helping to shape and develop new therapeutic options.





# Research to clinical products

Miltenyi Biotec is a company driven by research, innovation, and invention. This means we experience the challenges of the scientific community first hand, every day. Our contribution to biomedical science includes a large number of scientific publications, long-term collaborations with major research institutions around the globe, and our offering of more than 18,000 different products designed to advance scientific knowledge.

Whenever we see that a research product may potentially be applied in a clinical setting, we go the extra mile to make it available to both our clinical partners and customers.

## CliniMACS Product Family

The CliniMACS Product Family offers solutions for automated clinical-scale cell enrichment, depletion, and commercial-scale cell manufacturing. All separation and manufacturing steps occur in functionally-closed, sterile systems with a broad spectrum of applications for a variety of cells to support therapeutic developments in the fields of regenerative medicine, adoptive immunotherapy, and graft engineering.

[Learn more about our  
CliniMACS Product Family.](#)

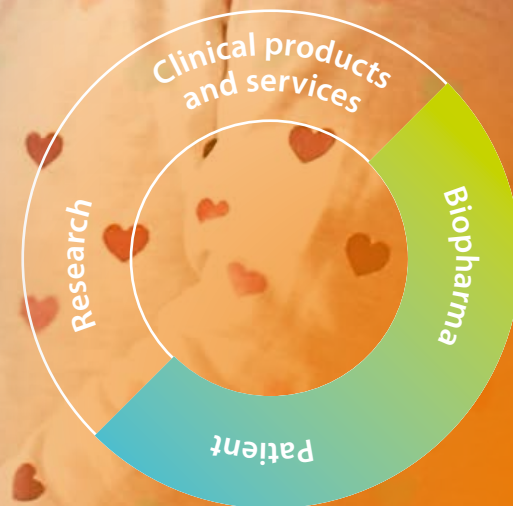




# Cellular therapies for patients

Human cells are not only important building blocks of the body but, when engineered correctly, can become potent and highly personalized therapeutic options for many serious diseases. They promise new hope for end-stage patients, namely those suffering from otherwise incurable diseases, for instance certain types of cancer, autoimmune diseases, and neurodegenerative disorders.

Cellular therapies open up completely new therapeutic options and pose new challenges for pharmaceutical manufacturers, from developing related therapeutic and diagnostics through to manufacturing and logistics for personalized therapies.





# Rethinking medicine

Building on decades of experience, the Miltenyi Group founded a dedicated biopharmaceutical company to make its innovative therapeutic approaches available to patients worldwide. Miltenyi Biomedicine is driving the clinical development of personalized cell and gene therapies, from early phases to regulatory approval and market access. This team of experts is dedicated to making a real difference in the lives of patients suffering from cancer and degenerative diseases.



[Learn more about  
Miltenyi Biomedicine.](#)



**Miltenyi Biomedicine**







**Miltenyi Biotec**

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