



Wallonia

Towards a new
biomanufacturing era

BIOWiN

THE HEALTH CLUSTER OF WALLONIA



BioWin, at the heart of an innovative ecosystem

To serve science, Thermo Fisher Scientific needs to stay ahead of it. We need to anticipate customer needs. We need to constantly think about advancing science, so customers have the freedom to be bolder and more innovative. We are committed to pushing science and technology a step beyond where it is today. As the ideal outsourcing partner for the biotech community, for early drug development, through clinical trials and all the way to commercialization, **we value being part of the BioWin community. It is a strong network of highly innovative companies in the heart of Europe. Together we can make a difference.**

Vincent Dehousse

Sr. Business Development Executive
Thermo Fisher Scientific

The BioWin organisation combines a very deep knowledge of the R&D players and topics with an almost exhaustive membership of organisations active in the life sciences field. This dual strength puts it in a unique position to accelerate the growth of the sector. **Being able to represent the entire life sciences sector is not easy, given the number of different markets, but BioWin manages to do so very well and contributes to placing Wallonia and Belgium as a land of excellence on the world map.**

Thibault Jonckheere

CEO
Exothera

At GSK, we unite science, technology and talents to stay ahead of disease. GSK in Belgium represents the largest, fully integrated industrial network, from fundamental research and development, to vaccine manufacturing and distribution. We distributed 767 million vaccine doses in 2021 to people living in more than 160 countries. **With the essential support of Biowin, the connection with the best academic, biotech and research center partners helps advance our research and innovation efforts to develop the vaccines of the future.**

Philippe Denoel

Head of Vaccines External R&D
GSK

In my life as a serial entrepreneur, I saw game changing innovations not reach the people that needed them. We founded Univercells with the mission to make biologics available for all - it's a huge challenge - but we are energised and inspired to solve it!

Hugues Bultot

CEO & Co-Founder
Univercells





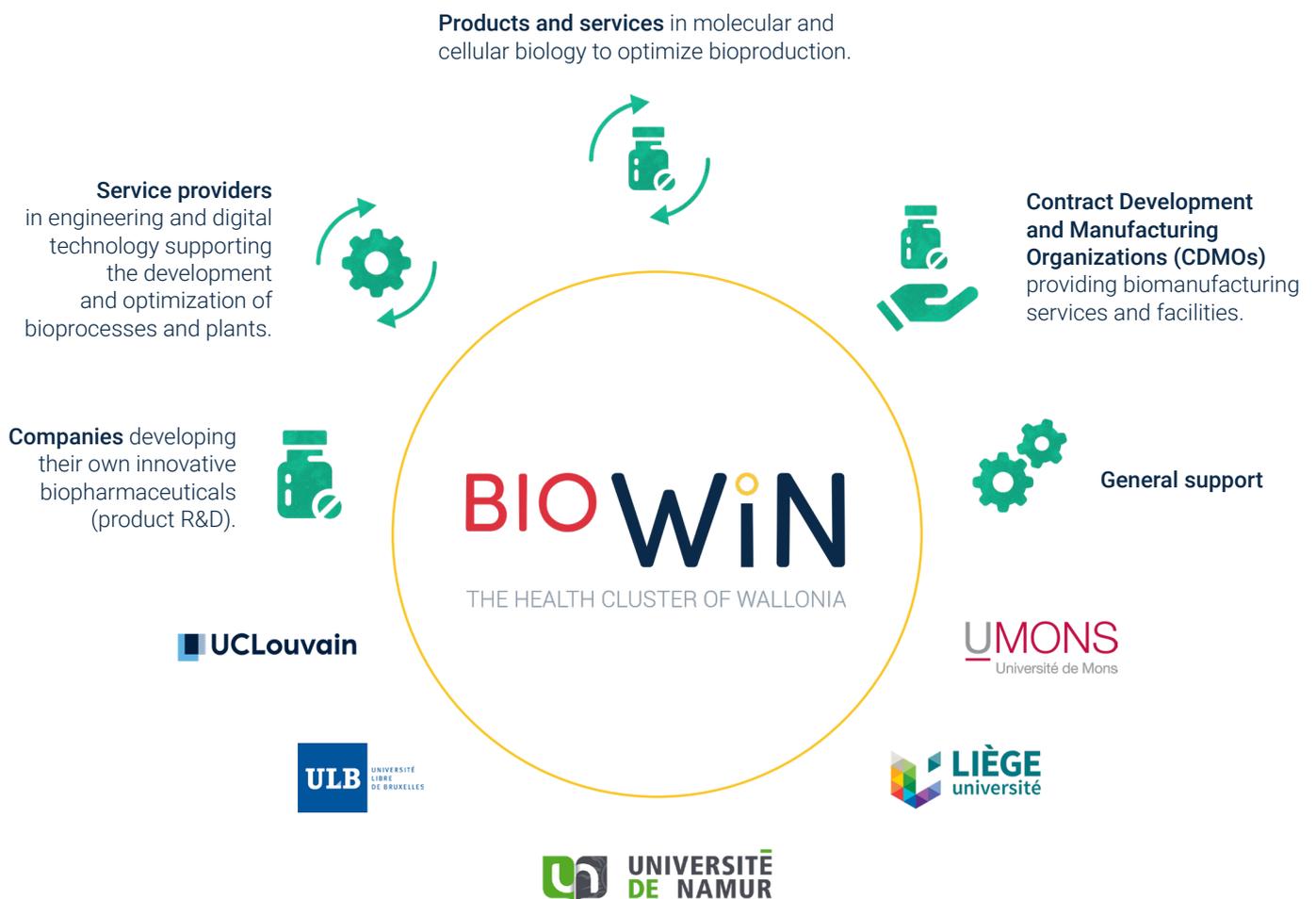
Biopharmaceutical manufacturing is engaged in a deep revolution

FIND PARTNERS FOR YOUR BIOMANUFACTURING CHALLENGES IN WALLONIA, BELGIUM

Modern biopharmaceuticals, such as cell therapy and personalized medicine, require great care when developing bioprocesses to ensure safe, innovative, and cost-effective medicines at all stages of development, from preclinical investigations to the production of final therapeutic solutions.

Each stage has specific needs and constraints which can only be achieved through interdisciplinary interactions between biology, engineering, digital technologies and medical partners.

WALLONIA'S STRONG AND DIVERSE ECOSYSTEM BRIDGES INDUSTRIES AND RESEARCH CENTERS ACTIVE IN THE BIOMANUFACTURING FIELD TO CREATE INNOVATIVE SOLUTIONS:



BIOwIN, THE HEALTH CLUSTER OF WALLONIA, CATALYZES THE INTERACTIONS BETWEEN THESE ACTORS, STIMULATES THEIR COLLABORATIONS AT BOTH LOCAL AND INTERNATIONAL LEVELS, AND INCREASES THEIR GLOBAL VISIBILITY IN THE HEALTH AND LIFE SCIENCE SECTORS.



The BioMan project

To strengthen the digital transformation of bioproduction companies in Wallonia, BioWin created this collaborative project in partnership with the CETIC research center and the essenscia federation as part of Agence du Numérique's call for projects for partners in the "Industry of the Future" consortium. The project started in April 2022 for a period of 2 years.

The BioMan project reinforces an approach set up by BioWin in 2017: the animation of a "Biomufacturing Club". This aims to raise awareness of the 4.0 development concept among companies, to support them in carrying out a digital diagnosis, and to provide them with specific expertise to draw up a digital action plan. This approach is largely inspired by the "Made Different Digital Wallonia" program, which has been adapted to the specific needs of the health sector.

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Your Connection to ICT Research

essenscia
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du futur | digital
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économie
SPW

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BIOWIN
THE HEALTH CLUSTER OF WALLONIA

The health competitiveness cluster of Wallonia



Serving **health biotech** and **medtech** innovation

Founded in 2006 to:

- Unify innovative life science players in Wallonia.
- Create a positive impact on society via health innovation.
- Showcase Wallonia as a world-class life science research environment.

BioWin represents more than 90% of the health biotech and medtech players in Wallonia in a diverse and growing ecosystem of more than 250 active members.



Your contact at BioWin

Thierry Ferain

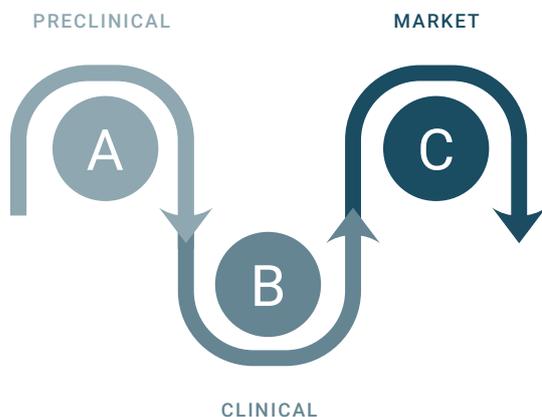
Director Innovation & Growth
thierry.ferain@biowin.org



Entry point for medical device and digital health in Wallonia

Our partners:





Key:

A PRECLINICAL:

Small GLP batches for research and animal investigations

B CLINICAL:

Medium-sized GMP batches to conduct clinical trials

C MARKET:

Commercial scale production of high quality and cost-effective medicines

Companies developing their own biopharmaceuticals (product research & development)

B		Developing single-domain antibody tracers enhancing in vivo diagnostic imaging in the fields of oncology, cardiology and immunology.	
A		atbtherapeutics is a pre-clinical stage biotech company developing a new class of targeted therapy in oncology. Our assets are entirely recombinantly produced molecules composed of an antibody, linker and payload. atb has a strong proprietary platform.	
A B		BioSenic is an innovative company with the objective of addressing important unmet medical needs in the areas of innate immunity, inflammation and organ/function repair.	
A B C		Bringing biologicals to animal health.	
A B		Adapting molecules from nature for therapeutic use.	
A B		Global innovator in liver cell-based medicine.	
A B		Breakthrough pioneering therapies for patients with life-threatening diseases.	
A B C		Science-led global healthcare company developing vaccines.	
A B C		Developing innovative biologics for patient care.	
A B C		Enabling a healthier world.	
A B C		Specialists in women's health, CDMO services in polymer technology, injectables and hormonal tableting.	
A		Cell-based therapies for hard & soft tissue reconstruction.	
A B		Development of a universal flu vaccine. Breakthrough technology platform for immunotherapies & vaccines.	
A B		New class of potent and scalable therapeutic cancer vaccines based on a proprietary allogeneic cell line of plasmacytoid dendritic cells (PDC*line).	
A		hiPSC as tools for drug discovery and development.	
A B C		Global concept in regenerative veterinary medicine.	
A B C		Global biopharmaceutical company, with a focus on neurology and immunology.	
A		Ziphius Vaccines is a biotechnology company focused on the development of self-amplifying RNA-based (saRNA) vaccines and therapeutics.	

Products and services in engineering and digital technologies to design your bioprocesses and plants

B C		Safer and easier aseptic filling.	
B C		Clean piping, air filtration and high technology metal production (custom parts). Specialist in FDA level production units.	
B C		Modeling and numerical simulation.	
B C		Providing support in advanced digital technologies: AI, cyber security and complex software systems.	
B C		Development and production of biomanufacturing equipment.	
B C		Biomanufacturing excellence through data science.	
A B C		Microchip technology with in-depth expertise in software and ICT: high-throughput cytometry and cell sorting.	
B C		End-to-end SaaS platform for the management of GMP data, from batch recording to cleanroom cleaning.	
A B C		Products and services in engineering and digital technologies to design your bioprocesses and plants	
A B C		Robust and innovative statistical solutions for the development, validation and control of processes.	
B C		Tailor-made technical and digital innovative solutions.	
B C		Engineering services aiming at integrating microsystems in industrial products or processes.	
A B C		From scientific idea to approved medicine, pharma services delivered by the partner you trust.	
A B C		Revolutionizing the availability of biologics around the world, making essential medicines affordable to all, in both quality and price.	

Products and services in molecular and cellular biology to optimize bioproduction

A		Biomedical research center.	
A B C		For more info, please visit cell-matters.com	
A B C		Contract services of viral vector development and manufacturing for cell and gene therapy products.	
A B C		RNA production platform for research organizations, CDMOs and biopharma companies.	
A		Biomanufacturing services & innovative rat/guinea pig monoclonals for preclinical immunotherapy & cell therapy projects.	
A B C		Revolutionizing the availability of biologics around the world, making essential medicines affordable to all, in both quality and price.	

Contract development and manufacturing organizations

B C	Catalent	Cell therapy and plasmid DNA manufacturing partner.	
B C		Trusted and innovative solutions in life science research, diagnostic and pharmaceutical markets.	
A B C	Lonza	Enabling a healthier world.	
A B C		Specialists in women's health, CDMO services in polymer technology, injectables and hormonal tableting.	
A		Biomanufacturing services & innovative rat/guinea pig monoclonals for preclinical immunotherapy and cell therapy projects.	
B C		From scientific idea to approved medicine, pharma services delivered by the partner you trust.	
A B C		Specialists in small batches, helping biotech companies to fill their products faster with more flexibility.	
A		Manufacturing proteins & DNA for preclinical applications.	

General support



Continuous education centers

